

# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked		Start 27/08/2008 End 28/08/2008	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 5.60m.		Depth from 0.00m	to 5.60m	Diameter 200mm	Casing Depth 5.60m	Ground Level +199.24 mOD Coordinates E 293941.51 National Grid N 206685.12 Chainage
Samples and Tests					Strata				
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments	
0.30	ES 1		27/08/2008	0800 dry	MADE GROUND: Very dense brown clayey sandy angular to subangular fine to coarse GRAVEL of sandstone with low cobble content. Cobbles are angular to subangular of sandstone.	(1.50)			
0.70	ES 2								
1.20-1.47 1.20-1.65	SPT C B 3	50 (4,10/10,40 for 40mm)	1.20	dry					
1.50	ES 4								
2.00-2.45 2.00	SPT C B 5	N=36 (10,6/9,9,9,9)	2.00	1.50	MADE GROUND: Dense and medium dense grey and black slightly silty sandy angular to subangular fine to coarse GRAVEL of sandstone, concrete and brick with low cobble content. Cobbles are angular to subangular of sandstone, concrete and brick. Rare strands of steel wire (10mm).	1.50 +197.74			
2.50	ES 6								
3.00-3.45 3.00-3.45	SPT C B 7	N=25 (10,11/10,4,6,5)	3.00	1.60					
3.50	ES 8		27/08/2008	1700 3.50 1.60	Dense becoming very dense brown and grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone, siltstone and quartzite with medium cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	3.50 +195.74			
4.00-4.45 4.00-4.45	SPT C B 9	N=30 (6,6/10,7,6,7)	4.00	1.60					
4.50	ES 10		28/08/2008	0800 3.50 1.60					
5.00-5.45 5.00	SPT C B 11	N=25 (4,5/5,6,7,7)	5.00	1.60	5.00-5.45 m Medium dense				
5.50-5.81 5.60-5.91	SPT C SPT-C	50 (10,10/12,20,18 for 10mm) 30 (25,20/20,10,-for 10mm)	28/08/2008 5.50	1700 5.50 1.60					
					EXPLORATORY HOLE ENDS AT 5.60 m	5.60 +193.64			
Groundwater Entries					Depth Related Remarks *		Chiselling		
No.	Struck	Post strike behaviour	Depth sealed (m)		From	to (m)	Depths (m)	Time	Tools used
None observed (see Key Sheet)							1.20 -1.50	60 mins	Chisel
							1.50 -2.00	90 mins	Chisel
							2.00 -3.00	180 mins	Chisel
							5.00 -5.50	90 mins	Chisel
							5.50 -5.60	60 mins	Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate		Borehole BH101		
Scale 1:50					Project No. H8076		Sheet 1 of 1		
(c) ESGL www.esgl.co.uk 408.24 25/09/2008 11:29:04					Carried out for Enviroparks Ltd				

# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked		Start 29/08/2008 End 01/09/2008		Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 7.50m.		Depth from 0.00m to 7.50m Diameter 200mm Casing Depth 7.50m		Ground Level +199.16 mOD Coordinates E 293857.10 National Grid N 206723.94 Chainage						
Samples and Tests					Strata									
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments						
0.30 0.30	ES 1 W 2		29/08/2008	0800 dry	MADE GROUND: Brown slightly clayey sandy angular to subangular fine to coarse GRAVEL of sandstone with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	(1.70)								
0.70	ES 3													
1.20-1.32 1.20	SPT C B 4	(25,50 for 40mm)	1.20	1.00										
1.50	ES 5													
2.00-2.45 2.00	SPT C B 6	N=23 (7,7/7,7,4,5)	2.00	1.00										
2.50	ES 7				Dense brown and grey clayey slightly sandy subangular to subrounded fine to coarse GRAVEL of sandstone with high cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	1.70 +197.46								
3.00-3.45 3.00-3.45	SPT C B 8	N=2 (2,1/0,1,0,1)	3.00	1.50										
3.45-3.90 3.50	SPT C ES 9	N=4 (1,1/1,1,1,1)	3.00	1.50										
4.00-4.50	U 10	27 mm rec												
4.50-4.70	D 11		29/08/2008 4.50	1700 2.00										
5.00-5.45 5.00	SPT C B 12	N=20 (1,2/4,5,5,6)	01/09/2008 4.50	0800 3.40	Firm grey slightly sandy slightly gravelly organic silty CLAY with medium cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite.	3.90 +195.26								
6.00-5.90 6.00	SPT C B 13	N=30 (4,7/5,5,8,12)	5.00	3.40										
6.50-6.88	SPT C	50 (12,13/18,17,15,- for 5mm)	6.50	3.40										
7.00	B 14													
7.20	B 15													
7.50-7.95	SPT C	N=42 (4,6/10,10,42,10)	01/09/2008 7.50	1700 3.40	Very dense dark grey subangular fine to coarse GRAVEL of siltstone (Possible bedrock).	7.20 +191.96 (0.30)								
			7.50	3.40	EXPLORATORY HOLE ENDS AT 7.50 m	7.50 +191.66								
Groundwater Entries No. Struck Post strike behaviour None observed (see Key Sheet)					Depth Related Remarks * From to (m)					Chiselling Depths (m) Time Tools used 1.20 -1.70 150 mins Chisel 1.70 -1.70 30 mins Chisel 5.60 -5.60 60 mins Chisel 6.00 -6.00 90 mins Chisel 6.50 -7.20 90 mins Chisel				
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviroparks Ltd					Borehole <b>BH102</b> Sheet 1 of 1				



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked	Start 02/09/2008 End 03/09/2008	Equipment, Methods and Remarks DANDO 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20m to 8.60m.	Depth from 0.00m to 8.70m Diameter 200mm Casing Depth 8.70m	Ground Level +198.88 mOD Coordinates E 293740.83 National Grid N 206755.00 Chainage
------------------------------------	--	---	---	--

Samples and Tests					Strata			Ground Level		
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments		
0.30	ES 1				MADE GROUND Dense brown clayey sandy angular to subangular fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are angular to subangular of sandstone and quartzite.	(2.00)				
0.60	B 2									
0.70	ES 3									
1.20-1.65	SPT C B 4	N=39 (4,10/10,10,9,10)	1.20	damp						
1.50	ES 5									
2.00-2.45	SPT C B 6	N=26 (4,4/6,7,7,6)	2.00	1.50	Medium dense brown and grey slightly clayey slightly sandy angular to subangular fine to coarse GRAVEL of sandstone and quartzite with medium cobble content. Cobbles are angular to subangular of sandstone and quartzite.	2.00 +196.88				
2.50	ES 7 B 8			2.60 +196.28						
3.00-3.50	U 9	27 blows			Soft brown and grey slightly sandy slightly gravelly silty CLAY with low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite. Cobbles are subangular to subrounded of sandstone and quartzite.	(3.40)				
3.50	D 10 ES 11									
4.00-4.45	SPT S B 12	N=16 (3,4/4,4,4,4)	4.00	2.00						
4.50	ES 13									
5.00-5.45	SPT S B 14	N=7 (2,2/2,1,2,2)	5.00	2.60	5.00-6.00 m Grey.					
5.70			02/09/2008	2.60						
6.00-6.45	SPT C B 15	N=8 (2,2/2,2,2,2)	6.00	2.50	Loose becoming medium dense grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	6.00 +192.88				
6.50	ES 16					(1.50)				
7.00-7.45	SPT C B 17	N=25 (4,6/6,6,7,6)	7.00	2.50	Medium dense grey and brown slightly clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone, quartzite and mudstone with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	7.50 +191.38				
7.50	ES 18					(0.50)				
8.00-8.45	SPT C B 19	N=24 (10,9/8,8,4,4)	8.00	1.50	Medium dense brown and grey subrounded COBBLES of sandstone and quartzite with a little clay, sand and gravel. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite.	8.00 +190.88				
8.60			03/09/2008	1.50		8.60 +190.28				
8.70	SPT-C B 20	50 (25- for 9mm <sup>2</sup> 25,25 for 35mm)	8.70	1.50	Moderately strong to strong grey stained brown SANDSTONE recovered as angular cobbles of sandstone.	8.70 +190.18				
EXPLORATORY HOLE ENDS AT 8.70 m										

Groundwater Entries				Depth Related Remarks *		Chiselling	
No.	Struck (m)	Post strike behaviour	Depth sealed (m)	From	to (m)	Depths (m)	Time Tools used
1	8.40	Rose to 1.50 m after 20 minutes.	-			1.20 -1.60 7.80 -7.80 8.40 -8.40 8.60 -8.70	60 mins Chisel 45 mins Chisel 45 mins Chisel 60 mins Chisel

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.	Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviro Parks Ltd	Borehole BH103 Sheet 1 of 1
--	--	--------------------------------



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked	Start 04/09/2008 End 08/09/2008	Equipment, Methods and Remarks DANDO 2000 Hand dug inspection pit GL - 1.20m. L light cable percussion methods 1.20 - 10.90m.	Depth from 0.00m to 10.90m Diameter 200mm Casing Depth 10.90m	Ground Level +199.27 mOD Coordinates E 293794.50 National Grid N 206810.29 Chainage
------------------------------------	------------------------------------	---	---	--

Samples and Tests					Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.30	ES 1				MADE GROUND Medium dense to dense brown very clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.					
0.70	ES 2									
1.20-1.65 1.20-1.65	SPT C B 3	N=27 (4,4/4,6,10,7)	1.20	dry		(2.60)				
1.50	ES 4									
2.00-2.45 2.00-2.45	SPT C B 5	N=48 (10,10/10,12,12,14)	2.00	1.50						
2.50 2.60	ES 6 B 7					2.60 +196.67				
3.00-3.50	U 8	27 blows	3.00	2.00		Soft grey brown and orange slightly sandy slightly gravelly silty CLAY with low cobble content. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite. Cobbles are subangular to subrounded of sandstone and quartzite.			(1.40)	
3.50	ES 9									
4.00-4.45 4.00-4.45	SPT C B 10	N=8 (2,2/2,2,2,2)	4.00	1.60		Soft CLAY with large gravel boulders. (Driller's description)			4.00 +195.27 (0.40)	
4.50	ES 11					4.40 +194.87				
5.00-5.45 5.00-5.45	SPT C B 12	N=18 (10,10/6,4,4,4)	5.00	2.00	Medium dense soft grey brown and orange slightly sandy slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite.					
5.50	ES 13				(2.60)					
6.00-6.50	U 14	29 blows	04/09/2008 5.90	2.00						
6.50	ES 15				6.50-7.00 m Dense					
7.00-7.45 7.00-7.45	SPT C B 16	N=36 (6,6/8,8,10,10)	7.00	2.60	Brown and grey slightly clayey slightly sandy slightly gravelly subangular to subrounded COBBLES of sandstone and quartzite. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite.	7.00 +192.27				
8.00-8.45 8.00-8.45	SPT C B 17	N=50 (6,10/12,12,14,12)	8.00	2.60						
9.00-9.45 9.00-9.45	SPT C B 18	N=47 (6,8/10,12,12,13)	9.00	2.60		(3.90)	1			
Depth	Type & No	Records	Date Casing	Time Water	Stratum continues to 10.90 m					

<b>Groundwater Entries</b> No. 1 Struck (m) 9.10 Post strike behaviour - Depth sealed (m) 1.50	Depth Related Remarks * From to (m)	Chiselling Depths (m) 1.20-1.80 Time 60 mins Tools used Chisel
--	--	--

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:50 (c) ESGL www.esgl.co.uk 408.24 25/09/2008 11:29:19	Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviro-parks Ltd	Borehole BH104 Sheet 1 of 2
---	--	--------------------------------

# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked	Start 04/09/2008 End 08/09/2008	Equipment, Methods and Remarks DANDO 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 10.90m.	Depth from 0.00m to 10.90m Diameter 200mm Casing Depth 10.90m	Ground Level +199.27 mOD Coordinates E 293794.50 National Grid N 206810.29 Chainage
------------------------------------	------------------------------------	---	---	--

Samples and Tests				Strata			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No	Records	Date Casing	Time Water	Description (Continued from Sheet 1)				
10.00-10.45 10.00-10.45	SPT C B 19	N=53 (10,10/12,14,17,10)	10.00	1.50	Brown and grey slightly clayey slightly sandy slightly gravelly subangular to subrounded COBBLES of sandstone and quartzite. Gravel is subangular to subrounded fine to coarse of sandstone and quartzite.  EXPLORATORY HOLE ENDS AT 10.90 m	10.90 +188.37			
-10.90-11.01 10.90	SPT-C B 20	60-(25 for 70mm/50 for 40mm)	08/09/2008 10.90 10.90	1.90 1.90					

<b>Groundwater Entries</b> No. Struck Post strike behaviour (m)	Depth sealed (m)	Depth Related Remarks * From to (m)	Chiselling Depths (m) Time Tools used 10.50 -10.90 60 mins Chisel
---	------------------	--	--

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:50	Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviro-parks Ltd	Borehole <b>BH104</b> Sheet 2 of 2
--	--	--



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked		Start 15/09/2008 End 15/09/2008	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 6.00m.		Depth from 0.00m	to 6.00m	Diameter 200mm	Casing Depth 6.00m	Ground Level +199.53 mOD Coordinates E 293875.60 National Grid N 206822.06 Chainage
Samples and Tests					Strata				
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.30	ES 1		15/09/2008	0800 dry	MADE GROUND: Medium dense brown and grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite (Re-worked natural).	(2.00)			
0.70	ES 2								
1.20-1.65 1.20-1.65	SPT C B 3	N=18 (4,3/4,6,4,4)	1.20	dry					
1.50	ES 4								
2.00-2.45 2.00-2.45	SPT C B 5	N=11 (2,2/3,3,3,3)	2.00	dry	Medium dense becoming dense dark grey mottled brown clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	2.00 +197.53			
2.50	ES 6								
3.00-3.45 3.00-3.45	SPT C B 7	N=23 (4,8/8,5,5,5)	3.00	dry					
3.50	ES 8								
4.00-4.45 4.00-4.45	SPT C B 9	N=38 (4,4/8,6,12,12)	4.00	dry					
4.50	ES 10								
5.00-5.45 5.00	SPT C B 11	N=29 (12,4/5,8,8,8)	5.00	3.10	Dense becoming very dense grey and brown slightly clayey slightly sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with high cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	(1.80)			
6.00-6.21 6.00	SPT C B 12	50 (14,11 for 45mm/- 31,19 for 15mm)	15/09/2008 6.00 6.00	1800 3.10 3.10	EXPLORATORY HOLE ENDS AT 6.00 m	6.00 +193.53			
Groundwater Entries No. Struck Post strike behaviour (m) None observed (see Key Sheet)					Depth Related Remarks * From to (m)				Chiselling Depths (m) Time Tools used 5.00-5.20 30 mins Chisel 5.60-6.00 60 mins Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviroparks Ltd				Borehole <b>BH105</b> Sheet 1 of 1



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked		Start 09/09/2008 End 09/09/2008	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 3.40m.		Depth from 0.00m	to 3.40m	Diameter 200mm	Casing Depth 3.40m	Ground Level +199.80 mOD Coordinates E 293799.73 National Grid N 206899.27 Chainage
Samples and Tests					Strata				
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.30	ES 1		09/09/2008	0800 dry	MADE GROUND: Brown and grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone, quartzite and brick with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	(2.00)			
0.70	ES 2								
1.20-1.65 1.20	SPT C B 4	N=14 (3,3/4,4,2,4)	1.20	dry					
1.50	ES 5				Medium dense becoming dense brown grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with medium cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	2.00 +197.80			
2.00-2.45 2.00	SPT C B 6	N=13 (3,2/3,3,4,3)	2.00	1.60					
2.50	ES 7								
3.00-3.43 3.00	SPT C B 8	N=46 (16,9 for 55mm/14,14,9,9)	3.00	2.00	Very dense brown and grey slightly clayey slightly sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with high cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.  EXPLORATORY HOLE ENDS AT 3.40 m	3.20 +196.60 3.40 +196.40			
3.40-3.57	SPT-C	-29 (25,30/20 for 20mm)	10/09/2008 3.40	1200 2.00					
			3.40	2.00					
Depth	Type & No	Records	Date Casing	Time Water					
Groundwater Entries No. Struck Post strike behaviour None observed (see Key Sheet)					Depth sealed (m)		Depth Related Remarks * From to (m)		Chiselling Depths (m) Time Tools used 3.00 -3.40 105 mins Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate		Borehole BH106		Sheet 1 of 1
Scale 1:50 (c) ESGL www.esgl.co.uk 408.24 25/09/2008 11:29:31					Project No. H8076 Carried out for Enviroparks Ltd				

# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked		Start 11/09/2008 End 12/09/2008	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 4.20m.		Depth from 0.00m	to 4.20m	Diameter 200mm	Casing Depth 4.20m	Ground Level +199.95 mOD Coordinates E 293881.43 National Grid N 206822.81 Chainage	
Samples and Tests					Strata					
Depth	Type & No	Records	Date Casing	Time Water	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.30	ES 1		11/09/2008	0800 dry	MADE GROUND: Medium dense brown and grey clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with low cobble content. Cobbles are subangular to subrounded of sandstone and quartzite (Re-worked natural).	(1.80)				
0.70	ES 2									
1.20-1.65 1.20-1.45	SPT C B 3	N=20 (4,2/4,6,6,4)	1.20	dry						
2.00-2.45 2.00-2.45	SPT C B 4	N=27 (3,3/4,5,9,9)	11/09/2008 1.80	1700 dry	Medium dense becoming dense brown clayey sandy subangular to subrounded fine to coarse GRAVEL of sandstone and quartzite with medium cobble content. Cobbles are subangular to subrounded of sandstone and quartzite.	1.80 +198.15				
2.50	ES 5		2.00	1.80						
3.00-3.45 3.00-3.45	SPT C B 6	N=37 (4,5/8,9,10,10)	3.00	2.40						
3.50	ES 7									
4.00-4.09 4.00-4.09 4.20-4.26	SPT C B 8 SPTC	(75 for 90mm) (75 for 55mm)	4.00 12/09/2008 4.00	3.00 1700 3.00	Moderately strong grey stained brown SANDSTONE recovered as: angular fine to coarse gravel of sandstone.	3.80 +196.15 (0.40)				
					EXPLORATORY HOLE ENDS AT 4.20 m					
Depth	Type & No	Records	Date Casing	Time Water						
Groundwater Entries					Depth Related Remarks *				Chiselling	
No.	Struck	Post strike behaviour	Depth sealed (m)		From	to (m)	Depths (m)	Time	Tools used	
None observed (see Key Sheet)									1.20 -1.80	90 mins Chisel
									3.80 -4.00	60 mins Chisel
									4.00 -4.20	60 mins Chisel
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate				Borehole BH107	
Scale 1:50					Project No. H8076				Sheet 1 of 1	
(c) ESGL www.esgl.co.uk 408.24 25/09/2008 11:29:35					Carried out for Enviro Parks Ltd					



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked	Start 10/09/2008 End 10/09/2008	<b>Equipment, Methods and Remarks</b> Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 1.80m.	Depth from 0.00m to 1.80m Diameter 200mm Casing Depth 1.80m	Ground Level +199.87 mOD Coordinates E 2938.79 National Grid N 206911.57 Chainage				
Samples and Tests			Strata		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
Depth	Type & No	Records	Date Casing	Time Water	Description			
0.30	ES 1				Very dense brown clayey slightly gravelly subangular fine to coarse GRAVEL of sandstone and quartzite with high cobble content. Cobbles are subangular of sandstone and quartzite.	(1.80)		
0.70	ES 2							
1.20-1.43 1.20	SPT C B 3	50 (10,12/50)	1.20	dry				
1.50	ES 4							
1.80-2.02 1.80	SPT-C D 5	-50 (25,25/50-for 70mm)	1.80 10/09/2008 1.80	0800 dry	EXPLORATORY HOLE ENDS AT 1.80 m	1.80 +198.07		
Depth	Type & No	Records	Date Casing	Time Water				
<b>Groundwater Entries</b> No. Struck Post strike behaviour (m) None observed (see Key Sheet)			Depth sealed (m)		Depth Related Remarks * From to (m)		Chiselling Depths (m) Time Tools used 1.20-1.80 90 mins Chisel	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.					Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviroparks Ltd		Borehole <h2 style="text-align: center;">BH108</h2> Sheet 1 of 1	



# Borehole Log

# PRELIMINARY



Soil Mechanics

Drilled MY Logged PL Checked	Start 10/09/2008 End 11/09/2008	Equipment, Methods and Remarks Dando 2000 Hand dug inspection pit GL - 1.20m. Light cable percussion methods 1.20 - 3.00m.	Depth from 0.00m to 3.00m Diameter 200mm Casing Depth 3.00m	Ground Level +199.96 mOD Coordinates E 293933.25 National Grid N 206877.21 Chainage
------------------------------------	------------------------------------	--	---	--

Samples and Tests				Strata			Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
Depth	Type & No	Records	Date Casing	Time Water	Description				
0.30	ES 1		10/09/2008	0800 dry	MADE GROUND: Grey brown and red slightly silty slightly sandy angular to subangular fine to coarse GRAVEL of sandstone, brick, concrete and quartzite with medium cobble content. Cobbles are angular to subangular of sandstone, concrete and brick.	(2.80)			
0.70	ES 2								
1.20-1.29 1.20-1.29	SPT C B 3	(75 for 90mm)	1.20	0.30					
1.50	ES 4								
2.00-2.45 2.00-2.45	SPT C B 5	N=31 (10,10/8,7,8,8)	2.00	1.50					
2.50	ES 6								
2.80	B 7		11/09/2008	1700	Moderately strong grey stained brown SANDSTONE recovered as: angular fine to coarse gravel of sandstone (Possible weathered bedrock).  EXPLORATORY HOLE ENDS AT 3.00 m	2.80 +197.16			
3.00-3.06	SPT-C	(75 for 60mm)	3.00	0.30		3.00 +196.96			

<b>Groundwater Entries</b> No. Struck Post strike behaviour (m) None observed (see Key Sheet)	Depth sealed (m)	Depth Related Remarks * From to (m)	<b>Chiselling Depths (m)</b> 1.20 -1.50 60 mins Chisel 1.80 -2.00 30 mins Chisel 2.30 -2.50 30 mins Chisel 2.50 -2.80 90 mins Chisel 2.80 -3.00 90 mins Chisel
---	------------------	--	---

Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:50	Project Hirwaun Industrial Estate Project No. H8076 Carried out for Enviro-parks Ltd	Borehole <b>BH109</b> Sheet 1 of 1
--	--	---------------------------------------

