Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW01

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 7.30m	81.15		10-161

Location	Dates	Engineer	Sheet
291473.8 E 222320.7 N	10/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.50)	MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
0.50	D1				80.65	0.50			
						(0.50)	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (Possible Made Ground)		
1.00	D2				80.15	1.00			
						(0.30)	Brown mottled grey and orange sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
1.30	D3				79.85	1.30			
						(0.70)	Brown sandy gravelly CLAY with some decayed organic matter. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
2.00	D4				79.15	2.00	Brown sandy very gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
2.50	D5					(1.40)			
3.00	D6								
3.40	D7				77.75	3.40	Grey and dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
4.00	D8					(1.60)			
5.00	D9				76.15	5.00	Brown gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse (wet)		
						(1.00)			
6.00	D10				75.15	6.00	Brown grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
						(1.30)			
7.00	D11								
				10/05/2010:	73.85	7.30	Complete at 7.30m		

Remarks
Borehole backfilled due to health and safety concerns over pedestrians in vicinity.
Standpipe installed.
Water added from 1.80m to 7.30m.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW01

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW01

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291473.8 E 222320.7 N	81.15	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			80.80	0.35	Concrete
			80.25	0.90	Bentonite Seal
			80.15	1.00	Fine Gravel Filter
			73.85	7.30	Slotted Standpipe

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
10/05/10							7.30			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Depth (m)	Level (mOD)	Remarks

Remarks
Geosock fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW02

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 6.00m	81.21		10-161

Location	Dates	Engineer	Sheet
291462.4 E 222360.1 N	10/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.60)	TOPSOIL		
					80.61	0.60			
0.60	D1						Brown orange slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse		
1.00	D2								
						(2.80)			
2.00	D3								
3.00	D4								
3.40	D5				77.81	3.40			
						(0.40)	Grey brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
3.80	D6				77.41	3.80			
						(0.20)	Brown orange sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
4.00	D7				77.21	4.00			
							Grey clayey very gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse		
				Water Strike(1) at 4.80m.		(1.50)			∇1
5.00	D8								
					75.71	5.50			
						(0.50)	Dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
6.00	D9			10/05/2010:	75.21	6.00			
							Complete at 6.00m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW02

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW02

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291462.4 E 222360.1 N	81.21	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			80.86	0.35	Concrete
			80.31	0.90	Bentonite Seal
			80.21	1.00	Fine Gravel Filter
	∇1		75.21	6.00	Slotted Standpipe

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)
		4.80		Water Strike					

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
10/05/10							6.00			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW03

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Symmetrix Drilling	150mm cased to 17.50m	86.26		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291418 E 222372.8 N	10/05/2010	EPA	1/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	D1					(1.00)	Brown sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse		
					85.26	1.00			
1.00-2.50	D2					(1.50)	Brown fine to medium SAND with occasional lenses of silt		
					83.76	2.50			
2.50-4.00	D3					(1.50)	Brown orange gravelly silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
					82.26	4.00			
4.00-5.50	D4					(1.50)	Brown grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
					80.76	5.50			
5.50-7.00	D5			Water Strike(1) at 6.00m.		(3.00)	Dark grey and black sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		∇1
7.00-8.50	D6								
					77.76	8.50			
8.50-9.00	D7					(1.50)	Grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		
					76.26	10.00			

Remarks
Double security lockable cover fitted with security tags.
Standpipe installed.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW03

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW03

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Symmetrix Drilling	150mm cased to 17.50m	86.26		10-161

Location	Dates	Engineer	Sheet
291418 E 222372.8 N	10/05/2010	EPA	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00-11.50	D8						Grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		
							becoming wet below 11.50m		
11.50-13.00	D9					(4.00)			
13.00-14.50	D10								
					72.26	14.00	Grey sandy silty subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse (wet)		
14.50-16.00	D11					(2.50)			
16.00-17.50	D12				69.76	16.50	Grey sandy gravelly CLAY with low cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are subangular to subrounded		
						(1.00)			
				10/05/2010:	68.76	17.50	Complete at 17.50m		

Remarks

Scale (approx)	Logged By
1:50	JC/HH

Figure No. 10-161.W0047EMW03

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW03

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291418 E 222372.8 N	86.26	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			85.91	0.35	Concrete Bentonite Seal
			84.96 84.76	1.30 1.50	Fine Gravel Filter
	∇1				Slotted Standpipe
			68.76	17.50	

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)
		6.00		Water Strike					

Groundwater Observations During Drilling

Date	Start of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
10/05/10							17.50			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Depth (m)	Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW04

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 7.00m	83.72		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291446.8 E 222346.7 N	10/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					83.42	(0.30) 0.30	TOPSOIL		
0.50	D1						Brown slightly clayey gravelly fine to coarse SAND with rootlets. Gravel is subrounded to rounded fine to coarse		
1.00	D2								
1.50	D3					(2.30)			
2.00	D4								
2.60	D5				81.12	2.60	Grey brown sandy subrounded to rounded fine to coarse GRAVEL. Sand is medium to coarse		∇1
				Slight Flow(1) at 3.00m.		(0.80)			
3.40	D6				80.32	3.40	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (damp)		
						(0.50)			
3.90	D7				79.82	3.90	Grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse (damp)		
4.50	D8								
5.50	D9					(3.10)			
7.00	D10			10/05/2010:	76.72	7.00	Complete at 7.00m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.
Water added from 2.60m to 3.00m.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW04

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW04

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291446.8 E 222346.7 N	83.72	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			83.37	0.35	Concrete
			82.82	0.90	Bentonite Seal
			82.72	1.00	Fine Gravel Filter
	∇1		76.72	7.00	Slotted Standpipe

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)
		3.00		Slight Flow					

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
10/05/10							7.00			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW05

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 6.00m	79.78		10-161

Location	Dates	Engineer	Sheet
291461.5 E 222398.7 N	10/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.40)	TOPSOIL		
					79.38	0.40	Brown sandy CLAY with rootlets. Sand is fine to coarse		
0.50	D1					(0.60)			
1.00	D2				78.78	1.00	Brown mottled orange slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		
1.60	D3					(1.00)			
2.00	D4				77.78	2.00	Orange brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse		
						(1.50)			
3.00	D5			Slight Seepage(1) at 3.00m.					∇1
3.50	D6				76.28	3.50	Orange brown sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse. Cobbles are subrounded to angular		
4.00	D7								
						(2.50)			
5.00	D8								
6.00	D9			Water Strike(2) at 6.00m. 10/05/2010:	73.78	6.00			∇2
							Complete at 6.00m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.
Water added from 2.00m to 3.00m.

Scale (approx)	Logged By
1:50	JC/HH

Figure No. 10-161.W0047EMW05

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW05

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291461.5 E 222398.7 N	79.78	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			79.43	0.35	Concrete
			78.88	0.90	Bentonite Seal
			78.78	1.00	Fine Gravel Filter
	∇1		73.78	6.00	Slotted Standpipe

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	10 min	15 min	20 min	Depth Sealed (m)
		3.00 6.00		Slight Seepage Water Strike					

Groundwater Observations During Drilling

Date	Start of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	End of Shift Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
10/05/10							6.00			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Depth (m)	Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW06

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 7.30m	87.20		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291359.8 E 222419.7 N	11/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					87.00	(0.20) 0.20	TOPSOIL		
					86.70	(0.30) 0.50	Brown silty gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
0.50	D1						Orange brown slightly silty slightly gravelly medium to coarse SAND. Gravel is subrounded to subangular fine to coarse		
1.00	D2					(1.40)			
1.50	D3								
					85.30	1.90			
2.00	D4					(0.60)	Grey slightly clayey very gravelly fine to coarse SAND with low cobble and boulder content. Gravel is subangular to rounded fine to coarse. Cobbles and boulders are subangular to rounded		
					84.70	2.50			
2.50	D5						Grey sandy subrounded to angular fine to coarse GRAVEL with low to medium cobble and boulder content. Sand is fine to coarse. Cobbles and boulders are subrounded to angular		
3.00	D6								
4.00	D7					(3.40)			
5.00	D8								
					81.30	5.90			
6.00	D9						Grey sandy gravelly CLAY with low to medium cobble content. Sand is medium to coarse. Gravel is subrounded to subangular fine to coarse. Cobbles are subrounded to subangular		
						(1.40)			
7.00	D10								
				11/05/2010:	79.90	7.30			
							Complete at 7.30m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.
Chiselling from 2.10m to 2.40m for 0.5 hours. Water added from 1.00m to 7.30m.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW06

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW06

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291359.8 E 222419.7 N	87.20	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			86.85	0.35	Concrete
					Bentonite Seal
			86.40	0.80	
			86.20	1.00	Fine Gravel Filter
			79.90	7.30	Slotted Standpipe

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
11/05/10							7.30			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW07

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 6.00m	81.02		10-161

Location	Dates	Engineer	Sheet
291513.1 E 222208.2 N	11/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.25)	TOPSOIL		
					80.77	0.25	Brown slightly gravelly sandy CLAY with roots, rootlets and occasional decayed organic matter. Sand is fine to coarse. Gravel is subangular fine to medium (Possible Made Ground)		
						(0.35)			
0.50	D1				80.42	0.60	Brown sandy gravelly CLAY with roots. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
						(0.70)			
1.00	D2								
					79.72	1.30	Brown mottled grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (damp)		
1.40	D3								
						(1.70)			
2.50	D4								
					78.02	3.00	Brown grey slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse		
3.00	D5								
						(1.00)			
				Water Strike(1) at 3.80m.					∇1
					77.02	4.00	Grey slightly silty sandy subangular to rounded fine to coarse GRAVEL. Sand is fine to coarse (wet)		
4.00	D6								
						(2.00)			
5.00	D7								
					75.02	6.00			
6.00	D8			11/05/2010:			Complete at 6.00m		

Remarks
Water strike at 3.80m rose to 3.0m after 1.0min.
Standpipe installed.
Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW07

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW07

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291513.1 E 222208.2 N	81.02	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
					Concrete
			80.67	0.35	
					Bentonite Seal
			80.12	0.90	
			80.02	1.00	Fine Gravel Filter
	∇1				Slotted Standpipe
			75.02	6.00	

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)
		3.80		Water Strike					

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
11/05/10							6.00			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW08

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	200mm cased to 5.00m	80.34		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291539.3 E 222230.6 N	12/05/2010	EPA	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					80.14	(0.20) 0.20	TOPSOIL		
0.50	D1					(0.80)	Grey brown slightly silty very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
1.00	D2				79.34	1.00	Brown slightly sandy slightly silty gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse		
1.50	D3					(1.00)			
2.00	D4				78.34	2.00	Grey slightly silty slightly gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse		▼1
				Water Strike(1) at 2.50m, rose to 2.00m in 5 mins.		(1.10)			▽1
3.00	D5				77.24	3.10	Grey very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
4.00	D6					(1.90)			
5.00	D7			12/05/2010:	75.34	5.00	Complete at 5.00m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW08

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW08

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291539.3 E 222230.6 N	80.34	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
					Concrete
			79.99	0.35	
					Bentonite Seal
			79.54	0.80	Fine Gravel Filter
			79.34	1.00	
	▼1				
	▽1				
					Slotted Standpipe
			75.34	5.00	

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)
		2.50		Water Strike	2.00				

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
12/05/10							5.00			

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW09

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Symmetrix Drilling	150mm cased to 20.50m	98.27		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	290988.2 E 222399.1 N	11/05/2010	EPA	1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	D1						Brown orange slightly clayey slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
1.00-2.50	D2					(2.50)			
2.50-4.00	D3				95.77	2.50	Brown slightly clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
						(1.50)			
4.00-5.50	D4				94.27	4.00	Grey brown gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
5.50-7.00	D5								
7.00-8.50	D6					(6.00)			
8.50-10.00	D7								
					88.27	10.00			

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW09

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW09

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Symmetrix Drilling	150mm cased to 20.50m	98.27		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	290988.2 E 222399.1 N	11/05/2010	EPA	2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00-11.50	D8					(1.50)	Grey brown gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
					86.77	11.50			
11.50-13.00	D9					(1.50)	Grey brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
					85.27	13.00			
13.00-14.50	D10					(4.50)	Grey brown sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse		
14.50-16.00	D11								
16.00-17.50	D12								
					80.77	17.50			
17.50-19.00	D13					(1.50)	Grey sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse		
					79.27	19.00			
19.00-20.50	D14					(1.00)	Possible weathered BEDROCK or BOULDERS		
					78.27	20.00			

Remarks

Scale (approx)	Logged By
1:50	JC/HH

Figure No. 10-161.W0047EMW09

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW09

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Symmetrix Drilling	150mm cased to 20.50m	98.27		10-161

Location	Dates	Engineer	Sheet
290988.2 E 222399.1 N	11/05/2010	EPA	3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.50)	Possible weathered BEDROCK or BOULDERS		
				11/05/2010:DRY	77.77	20.50	Complete at 20.50m		

Remarks

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW09

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW09

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
290988.2 E 222399.1 N	98.27	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			97.92	0.35	Concrete Bentonite Seal
			96.97 96.77	1.30 1.50	Fine Gravel Filter
					Slotted Standpipe
			77.77	20.50	

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
11/05/10							20.50		DRY	

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW10

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Rotary Symmetrix	150mm cased to 20.50m	99.17		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291023.2 E 222348.6 N	11/05/2010	EPA	1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00	D1					(2.30)	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
					96.87	2.30			
2.50	D2						Brown grey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to medium		
4.00	D3								
5.50	D4					(7.70)			
7.00	D5								
8.50	D6								
					89.17	10.00			

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH

Figure No.
10-161.W0047EMW10

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW10

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Rotary Symmetrix	150mm cased to 20.50m	99.17		10-161
	Location	**Dates**	**Engineer**	**Sheet**
	291023.2 E 222348.6 N	11/05/2010	EPA	2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00	D7						Brown grey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to medium		
						(1.20)			
					87.97	11.20	Grey brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
11.50	D8								
						(3.40)			
13.00	D9								
14.50	D10				84.57	14.60	Grey brown silty gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
16.00	D11					(3.00)			
17.50	D12				81.57	17.60	Brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
						(2.40)			
19.00	D13								
					79.17	20.00			

Remarks

Scale (approx)	Logged By
1:50	JC/HH

Figure No. 10-161.W0047EMW10

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW10

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Rotary Symmetrix	150mm cased to 20.50m	99.17		10-161

Location	Dates	Engineer	Sheet
291023.2 E 222348.6 N	11/05/2010	EPA	3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						(0.50)	Brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
20.50	D14			11/05/2010:DRY	78.67	20.50	Complete at 20.50m		

Remarks

Scale (approx)	Logged By
1:50	JC/HH

Figure No. 10-161.W0047EMW10

Glover Site Investigations Ltd

Site	Borehole Number
Kerdiffstown Landfill	W0047EMW10

Installation Type	Dimensions	Client	Job Number
Gas and Water Monitoring	Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm		10-161

Location	Ground Level (mOD)	Engineer	Sheet
291023.2 E 222348.6 N	99.17	EPA	1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description
			98.82	0.35	Concrete
					Bentonite Seal
			97.37	1.80	
			97.17	2.00	Fine Gravel Filter
					Slotted Standpipe
			78.67	20.50	

Groundwater Strikes During Drilling

Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings 5 min	Readings 10 min	Readings 15 min	Readings 20 min	Depth Sealed (m)

Groundwater Observations During Drilling

Date	Start of Shift Time	Start of Shift Depth Hole (m)	Start of Shift Casing Depth (m)	Start of Shift Water Depth (m)	Start of Shift Water Level (mOD)	End of Shift Time	End of Shift Depth Hole (m)	End of Shift Casing Depth (m)	End of Shift Water Depth (m)	End of Shift Water Level (mOD)
11/05/10							20.50		DRY	

Instrument Groundwater Observations

Inst. [A] Type :

Date	Instrument [A] Time	Instrument [A] Depth (m)	Instrument [A] Level (mOD)	Remarks

Remarks

Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.