

APPENDIX 2.4.3
TES/TOBIN Trial Pit Logs

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TES**CONSULTING ENGINEERS**

Second Floor, Unit 4B/5
 Blanchardstown Corporate Park
 Blanchardstown
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 TEL: (01) 8030401 FAX: (01) 8030410

BOREHOLE LOG

Borehole GW2D

Sheet No. 1 of 2

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275305 Northing: 230640	Elevation (mOD): 87.862 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.0	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2	PEAT								
3.5									
4									
6									
8									
10	GREY GRAVELLY CLAY/SILT							50MM uPVC CASING	BENTONITE
12									
14									
15.0									
16	DARK GREY ARGILLACEOUS LIMESTONE								
18									SAND

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Remarks:

1. Rockhead encountered at 15m bgl.
2. Bedrock relatively unweathered below Clay/Silt deposit
3. No significant groundwater inflows recorded during drilling
4. Water levels monited during pump test on GW6 (No fluctuations recorded)
5. SWL 85.857 m OD as at 16/01/03.

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275305 Northing: 230640	Elevation (mOD): 87.862 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.0	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	DARK GREY ARGILLACEOUS LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND
20									
22									
24									
26									
27.0	END OF BOREHOLE								

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275312 Northing: 230650	Elevation (mOD): 87.370 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
4.0	PEAT							50MM uPVC CASING	BENT ONITE
9.0	GREY GRAVELLY CLAY/SILT							50MM uPVC SCREEN	WASHED SILICA SAND
18	END OF BOREHOLE								

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Remarks:

1. No significant groundwater inflows recorded during drilling
2. Slow drilling progress due to ground conditions and compactness of subsoil material
3. Water levels monitored during pump test on GW6 (No fluctuations observed)
4. SWL 86.320m OD as at 16/01/03

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BOREHOLE LOG

Borehole GW3D

Sheet No. 1 of 2

Client: Bord na Mona Site: Timahoe, Co. Kildare Job No.: 1131 Scale: 1:50

Grid Reference Easting: 274349 Northing: 230902 Elevation (mOD): 85.115 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.5m Date Started: 19/12/02 Date Completed: 19/12/02 Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2	PEAT								
9	GREY GRAVELLY CLAY/SILT							50MM uPVC CASING	BENTONITE
12	WEATHERED GREY ARGILLACEOUS LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND
18	DARK GREY ARGILLACEOUS LIMESTONE							HOLE COLLAPSED	HOLE COLLAPSED

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Remarks:

1. Rockhead encountered at 9m bgl, very weathered to 12m bgl
2. Hole drilled to 27 but collapses back to 12. Redrilled to 21 collapsed to 12.
3. Groundwater inflows in weathered upper bedrock layer. Material very unstable
4. Water levels monitored during pump test on GW6 (No fluctuations observed)
5. SWL 83.305m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274349 Northing: 230902	Elevation (mOD): 85.115 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.5	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	DARK GREY ARGILLACEOUS LIMESTONE							HOLE COLLAPSED	HOLE COLLAPSED
27.0	END OF BOREHOLE								

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274354 Northing: 230907	Elevation (mOD): 85.018 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2.1	PEAT							50MM uPVC CASING	BENT ONITE
9.0	GREY GRAVELLY SILT/CLAY							50MM uPVC SCREEN	WASHED SILICA SAND
18	END OF BOREHOLE								

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Remarks:

1. No distinct groundwater inflows, although material was saturated below 5m bgl
2. Water levels monitored during pump test on GW6 (No fluctuations observed)
3. SWL 82.998m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275153 Northing: 231756	Elevation (mOD): 84.612 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 28	Date Started: 16/12/02 Date Completed: 17/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
3.5	PEAT								
4.5	GREY SANDY SILT								
8	GREY/BLUE SILT/CLAY								
14	GREY GRAVELLY SILT/CLAY								
15	BLACK ARGILLACEOUS LIMESTONE								
18	LIGHT GREY FINE GRAINED CLEAN LIMESTONE								

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50MM uPVC CASING

BENTONITE

Remarks:

1. Rockhead encountered at 14m bgl.
2. Groundwater inflows observed in fractures in grey fine grained limestone
3. Water levels observed during pump test on GW6 (No fluctuations observed)
4. SWL 83.932 m OD as at 16/01/2003

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
Grid Reference Easting: 275153 Northing: 231756	Elevation (mOD): 84.612 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 28	Date Started: 16/12/02 Date Completed: 17/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	LIGHT GREY FINE GRAINED CLEAN LIMESTONE							50MM uPVC CASING	BENTONITE
								50MM uPVC SCREEN	WASHED SILICA SAND
28.0	END OF BOREHOLE								

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274773 Northing: 232292	Elevation (mOD): 84.852 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m	Date Started: 09/12/02 Date Completed: 10/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL								50MM uPVC CASING	BENT ONITE
3.5	PEAT							50MM uPVC SCREEN	WASHED SILICA SAND
7.0	GREY GRAVELLY CLAY/SILT								
9.0	GREY CLAY/SILT WITH ROCK FRAGMENTS								
18	END OF BOREHOLE								

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Remarks:

1. Very slow progress through gravelly Silt/Clay
2. No noticable groundwater inflows
3. Water level fluctuations monitored during pump test undertaken on GW6
4. SWL 83.727m OD as at 16/01/03.

TES

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BOREHOLE LOG

Borehole GW1D

Sheet No. 1 of 2

Client: Bord na Mona Site: Tilmahoe, Co. Kildare Job No.: 1131 Scale: 1:50

Grid Reference Easting: 274767 Northing: 232294 Elevation (mOD): 84.886 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 25.5m Date Started: 09/12/02 Date Completed: 10/12/02 Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2	PEAT								
4.0									
6	GREY GRAVELLY CLAY/SILT							50MM uPVC CASING	BENTONITE
8									
10	GREY VERY ROCKY CLAY/SILT								
12									
14	VERY BROKEN WEATHERED GREY LIMESTONE								
16									
18	FRESH LIGHT GREY LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND

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Remarks:

1. Rockhead encountered at 12m bgl, very weathered to 16m bgl
2. Slow drilling through gravelly Silt/Clay with negligible groundwater inflow
3. Water levels observed in this monitoring point during pump test undertaken on GW6
4. No major water strikes, although small flow in bedrock zone
5. SWL 83.856m OD as at 16/01/03.

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274767 Northing: 232294	Elevation (mOD): 84.886 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 25.5	Date Started: 9/12/02 Date Completed: 10/12/2002	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	FRESH LIGHT GREY LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND
20									
22									
24									
25.5	END OF BOREHOLE								

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Client: Bord na Mona Site: Timahoe, Co. Kildare Job No.: 1131 Scale: 1:50

Grid Reference Easting: 274773 Northing: 232292 Elevation (mOD): 84.852 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m Date Started: 09/12/02 Date Completed: 10/12/02 Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL								50MM uPVC CASING	BENT ONITE
3.5	PEAT							50MM uPVC SCREEN	WASHED SILICA SAND
7.0	GREY GRAVELLY CLAY/SILT								
9.0	GREY CLAY/SILT WITH ROCK FRAGMENTS								
18	END OF BOREHOLE								

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Remarks:

1. Very slow progress through gravelly Silt/Clay
2. No noticeable groundwater inflows
3. Water level fluctuations monitored during pump test undertaken on GW6
4. SWL 83.727m OD as at 16/01/03.

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
Grid Reference Easting: 275305 Northing: 230640	Elevation (mOD): 87.862 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.0	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2	PEAT								
3.5									
4									
6									
8	GREY GRAVELLY CLAY/SILT							50MM uPVC CASING	BENTONITE
10									
12									
14									
15.0									
16	DARK GREY ARGILLACEOUS LIMESTONE								
18									SAND

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Remarks:

1. Rockhead encountered at 15m bgl.
2. Bedrock relatively unweathered below Clay/Silt deposit
3. No significant groundwater inflows recorded during drilling
4. Water levels monited during pump test on GW6 (No fluctuations recorded)
5. SWL 85.857 m OD as at 16/01/03.

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275305 Northing: 230640	Elevation (mOD): 87.862 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.0	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	DARK GREY ARGILLACEOUS LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND
20									
22									
24									
26									
27.0	END OF BOREHOLE								

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275312 Northing: 230650	Elevation (mOD): 87.370 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m	Date Started: 11/12/02 Date Completed: 11/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL								50MM uPVC CASING	BENT ONITE
4.0	PEAT							50MM uPVC SCREEN	WASHED SILICA SAND
9.0	GREY GRAVELLY CLAY/SILT								
18	END OF BOREHOLE								

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Remarks:

1. No significant groundwater inflows recorded during drilling
2. Slow drilling progress due to ground conditions and compactness of subsoil material
3. Water levels monitored during pump test on GW6 (No fluctuations observed)
4. SWL 86.320m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274349 Northing: 230902	Elevation (mOD): 85.115 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.5m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2	PEAT								
9	GREY GRAVELLY CLAY/SILT							50MM uPVC CASING	BENTONITE
12	WEATHERED GREY ARGILLACEOUS LIMESTONE							50MM uPVC SCREEN	WASHED SILICA SAND
18	DARK GREY ARGILLACEOUS LIMESTONE							HOLE COLLAPSED	HOLE COLLAPSED

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Remarks:

1. Rockhead encountered at 9m bgl, very weathered to 12m bgl
2. Hole drilled to 27 but collapses back to 12. Redrilled to 21 collapsed to 12.
3. Groundwater inflows in weathered upper bedrock layer. Material very unstable
4. Water levels monitored during pump test on GW6 (No fluctuations observed)
5. SWL 83.305m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274349 Northing: 230902	Elevation (mOD): 85.115 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.5	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	DARK GREY ARGILLACEOUS LIMESTONE							HOLE COLLAPSED	HOLE COLLAPSED
27.0	END OF BOREHOLE								

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274354 Northing: 230907	Elevation (mOD): 85.018 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 9.0m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
2.1	PEAT							50MM uPVC CASING	BENT ONITE
9.0	GREY GRAVELLY SILT/CLAY							50MM uPVC SCREEN	WASHED SILICA SAND
18	END OF BOREHOLE								

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Remarks:

1. No distinct groundwater inflows, although material was saturated below 5m bgl
2. Water levels monitored during pump test on GW6 (No fluctuations observed)
3. SWL 82.998m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 275153 Northing: 231756	Elevation (mOD): 84.612 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 28	Date Started: 16/12/02 Date Completed: 17/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
---	---	--	--

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
3.5	PEAT							50MM uPVC CASING	BENTONITE
4.5	GREY SANDY SILT								
8	GREY/BLUE SILT/CLAY								
14	GREY GRAVELLY SILT/CLAY								
15	BLACK ARGILLACEOUS LIMESTONE								
18	LIGHT GREY FINE GRAINED CLEAN LIMESTONE								

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Remarks:

1. Rockhead encountered at 14m bgl.
2. Groundwater inflows observed in fractures in grey fine grained limestone
3. Water levels observed during pump test on GW6 (No fluctuations observed)
4. SWL 83.932 m OD as at 16/01/2003

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
Grid Reference Easting: 275153 Northing: 231756	Elevation (mOD): 84.612 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 28	Date Started: 16/12/02 Date Completed: 17/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	LIGHT GREY FINE GRAINED CLEAN LIMESTONE							50MM uPVC CASING	BENTONITE
								50MM uPVC SCREEN	WASHED SILICA SAND
28.0	END OF BOREHOLE								

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Client: Bord na Mona		Site: Tlmahoe, Co. Kildare		Job No.: 1131	Scale: 1:50
Grid Reference Easting: 275159 Northing: 231740	Elevation (mOD): 84.213 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.5	Date Started: 17/12/02 Date Completed: 17/12/02		Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)	

Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
3.5	PEAT							50MM uPVC CASING	BENT ONITE
4.5	GREY GRAVELLY SANDY SILT							50MM uPVC SCREEN	WASHED SILICA SAND
8.0	GREY GRAVELLY SILT/CLAY								
11.0	GREY SILTY SAND & GRAVEL								
12.5	GREY CLAY WITH SILTY GRAVEL								
18	END OF BOREHOLE								

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Remarks:

1. No distinct groundwater inflows recorded in subsoil material
2. Water levels recored during pump test on GW6 (No fluctuations observed)
3. SWL 83.413m OD as at 16/01/03.

TES

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BOREHOLE LOG

Borehole BH5D

Sheet No. 1 of 2

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274236 Northing: 232062	Elevation (mOD): 85.85 Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.5m	Date Started: 17/12/02 Date Completed: 18/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary DTH Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
1.0	PEAT								
2									
4									
6									
8									
10									
12.0	GREY GRAVELLY SILT/CLAY							50MM uPVC CASING	BENTONITE
14									
16									
18									

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Remarks:

1. Rockhead not encountered, borehole terminated on very stiff orange clay
2. Hole Stopped due to CLAY clogging Hammer
3. No groundwater encountered during drilling, material was very compact to drill
4. Water levels recorded during pump test (No fluctuations observed during test)
5. SWL 84.895 m OD as at 16/01/03

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274236 Northing: 232062	Elevation (mOD): 85.85 Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 27.5m	Date Started: 17/12/02 Date Completed: 18/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary DTH Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	GREY GRAVELLY SILT/CLAY							50MM uPVC CASING	BENTONITE
20									
21.0	LIGHT BROWN SILT/CLAY WITH WELL ROUNDED GRAVEL							50MM uPVC SCREEN	WASHED SILICA SAND
22									
24									
24.75	stiff orange CLAY								
26									
27.5	EOH								

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BOREHOLE LOG

Borehole GW5S

Sheet No. 1 of 1

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274246 Northing: 232059	Elevation (mOD): 85.799 GL Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 12.7	Date Started: 18/12/02 Date Completed: 18/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
1.0	PEAT							50MM uPVC CASING	BENT ONITE
	GREY GRAVELLY SILT/CLAY							50MM uPVC SCREEN	WASHED SILICA SAND
12.7									
	END OF BOREHOLE								
18									

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Remarks:

1. No groundwater inflows during drilling
2. Water levels recorded during pump test on GW6 (No fluctuations observed)
3. 24 hour pump test observed at this borehole,
4. SWL 85.154m OD as at 16/01/03.

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BOREHOLE LOG

Borehole GW6

Sheet No. 1 of 3

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274765 Northing: 232278	Elevation (mOD): Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 36.8m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
GL									
1.0	PEAT								
2									
4									
6									
8									
10	GREY GRAVELLY SILT/CLAY							100MM uPVC CASING & 7" STEEL CASIONG	BENTONITE
12.0									
14									
16									
18.0									

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Remarks:

1. Rockhead encountered at 24m bgl, very weathered to 31.5m bgl.
2. Borehole cased with 7-inch steel casing to 26m bgl
3. Borehole retrofitted with 100mm uPVC Screen and Casing.
4. Pump test undertaken on this borehole, with aximum yield of 56.7 cu.m/day
5. SWL 84.157m OD as at 16/01/03.

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BOREHOLE LOG

Borehole GW6

Sheet No. 2 of 3

Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274765 Northing: 232278	Elevation (mOD): 84.737 Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 36.8m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
18m	BUFF COLOURED SILT WITH FRAGMENTS OF DOLOMITISED LIMESTONE							100MM uPVC CASING & 7" STEEL CASIONG	BENTONITE
20									
22									
24.0	VERY SOFT/BROKEN DOLOMITISED LIMESTONE							100MM uPVC CASING	SILICA SAND
26									
28									
30	DOLOMITISED LIMESTONE WITH SILT							100MM uPVC SCREEN	SILICA SAND
31.5									
32									
34									
36									

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Client: Bord na Mona	Site: Timahoe, Co. Kildare	Job No.: 1131	Scale: 1:50
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Grid Reference Easting: 274765 Northing: 232278	Elevation (mOD): 84.737 Borehole Diameter (Subsoil): 200mm Borehole Diameter (Rock): 150mm Borehole Depth (m): 36.8m	Date Started: 19/12/02 Date Completed: 19/12/02	Drill Contractor: Glovers SI Ltd. Drill Method: Air Rotary Logged by: KM (TES)
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Depth m	Description of Strata	Legend	OD Level m	Water Inflows	Samples		BH Tests Type & Ref.	Completion Details	
					Type	Ref. No.		Lining:	Backfill:
36	DOLOMITISED LIMESTONE WITH SILT							100MM SCREEN	WASHED SAND
36.8									
	END OF BOREHOLE								

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