

**APPENDIX 8.1**  
**Trial Pit Logs**

**TES**

CONSULTING ENGINEERS

Second Floor, Unit 4B/5  
 Blanchardstown Corporate Park  
 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 1

Sheet No. 1 of 1

Excavator Type: HITACHI	Date: 23/10/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E084643, N324121	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
2.4	PEAT Soft, medium light brown to medium brown, occasional fragments of bog wood, slightly moist.			Vane Test	TP1			
3.0	Yellowish brown to light yellowish brown gravelly, clayey SAND, with some angular subangular cobbles of schist at base.			Disturbed Sample	TP1			
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing. 2. No significant groundwater inflow recorded during excavation. 3. Excavation terminated at 3m due to obstruction/compaction of subsoil.
Scale: 1:25	Rev.:	

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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 2

Sheet No. 1 of 1

Excavator Type:                      Date: **23/10/03**                      Client: **Bord na Mona/Shell E&P**

Grid Reference: **E084646, N323870**                      Elevation (mOD):                      Site: **Srahmore, Bangor-Erris, Co. Mayo.**

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.65	PEAT Soft, medium dark brown to dark brown, occasional fragments of bog wood.			Vane Test	TP2			
3.0	Medium light grey to light greenish grey, gravelly, clayey slightly micaceous SAND. The Gravels are platy, angular to subangular Quartzites.			Disturbed Sample	TP2			
	END OF TRIAL PIT							

Logged by: **P.K.**                      Job No.: **1169**                      Remarks:  
 1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing.  
 2. No significant groundwater inflow recorded during excavation.

Scale: **1:25**                      Rev.:

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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 3

Sheet No. 1 of 1

Excavator Type:	Date: 23/10/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E084890, N323700	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
1.8	PEAT Soft, medium brown to light brown, fragments of bog wood and rootlets, slightly moist.			Vane Test	TP3			
3.45	Greenish grey to light greenish grey to light grey SAND, with some angular to subangular gravels and cobbles of schist.			Disturbed Sample	TP3			
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing. 2. Slight to moderate groundwater inflow recorded at 2.5m during excavation. 3. Excavation terminated due to obstruction/compaction of subsoil at 3.45m.
Scale: 1:25	Rev.:	

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 Blanchardstown  
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TRIAL PIT LOG

Trial Pit No. 4

Sheet No. 1 of 1

Excavator Type:                      Date: **23/10/03**                      Client: **Bord na Mona/Shell E&P**

Grid Reference: **E084164, N323332**                      Elevation (mOD):                      Site: **Srahmore, Bangor-Erris, Co. Mayo.**

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
1.1	PEAT Soft to very soft, medium brown to medium dark brown, with fragments of bog wood and rootlets, moist.			Vane Test	TP4			
1.4	Medium greenish grey to grey, clayey, fine grained SAND with occasional subrounded to rounded gravel and cobbles.			Disturbed Sample	TP4			
1.65	Medium grey to light brownish grey GRAVEL with some sub-rounded to subangular cobbles.							
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing. 2. Excavations terminated at 1.65m bgl due to unstable ground and pit wall collapse caused by water inflow.
Scale: 1:25	Rev.:	

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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 5

Sheet No. 1 of 1

Excavator Type:                      Date: 23/10/03                      Client: Bord na Mona/Shell E&P

Grid Reference: E084474, N323382                      Elevation (mOD):                      Site: Srahmore, Bangor-Erris, Co. Mayo.

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.9	PEAT Soft, medium dark brown fragments of bog wood and rootlets, moist.			Vane Test	TP5			
3.0	Yellowish brown to greyish brown, gravelly, cobbly SILT/ SAND. The gravels are subangular to subrounded.			Disturbed Sample	TP5			
	END OF TRIAL PIT							

Logged by: P.K.                      Job No.: 1169                      Remarks:  
 Scale: 1:25                      Rev.:                      1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing.  
 2. Slight to moderate groundwater inflow at 2.5m bgl.

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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 6

Sheet No. 1 of 1

Excavator Type:                      Date: 23/10/03                      Client: Bord na Mona/Shell E&P

Grid Reference: E084852, N323176                      Elevation (mOD):                      Site: Srahmore, Bangor-Erris, Co. Mayo.

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
	PEAT Soft, dark brown to brownish black, fragments of bog wood, moist.			Vane Test	TP6			
0.95								
	Light yellowish brown clayey, fine grained SAND with occasional gravels that are subrounded to rounded							
1.9								
	Medium brown to dark brown subangular to subrounded GRAVELS, with some Cobbles.			Disturbed Sample	TP6			
2.5								
	END OF TRIAL PIT							

Logged by: P.K.                      Job No.: 1169                      Remarks:  
 Scale: 1:25                      Rev.:                      1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing.  
 2. No significant groundwater inflows noted during excavation.

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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 7

Sheet No. 1 of 1

Excavator Type:                      Date: **23/10/03**                      Client: **Bord na Mona/Shell E&P**

Grid Reference: **E084001, N323713**                      Elevation (mOD):                      Site: **Srahmore, Bangor-Erris, Co. Mayo.**

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.85	<p>PEAT Soft, dark brown to brownish black, fragments of bog wood, moist. Occurance of more recent plant material and heather.</p>			Vane Test	TP7			
2.5	<p>Light yellowish brown to light yellowish grey clayey SAND with occasional gravels that are subrounded to rounded.  Gravel content increases with depth and becomes angular at base.</p>			Disturbed Sample	TP7			
	END OF TRIAL PIT							

Logged by: **P.K.**                      Job No.: **1169**                      Remarks: **1. Shear vane test undertaken on peat, disturbed soil sample obtained for Particle Size Distribution testing.  
2. No significant groundwater inflows noted during excavation.**

Scale: **1:25**                      Rev.:



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 Blanchardstown  
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TRIAL PIT LOG

Trial Pit No. 8

Sheet No. 1 of 1

Excavator Type:                      Date: 23/10/03                      Client: Bord na Mona/Shell E&P

Grid Reference: E084402, N323988                      Elevation (mOD):                      Site: Srahmore, Bangor-Erris, Co. Mayo.

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.2	Medium dark, soft PEAT							
2.6	Medium light grey to greenish grey, gravelly, cobble SILT/SAND. The gravels are subangular to subrounded and occasionally well rounded Quartzites, with occasional Red Sandstones and Slate.							
	END OF TRIAL PIT							

Logged by: P.K.                      Job No.: 1169                      Remarks:

Scale: 1:25                      Rev.:

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Second Floor, Unit 4B/5  
 Blanchardstown Corporate Park  
 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 9

Sheet No. 1 of 1

Excavator Type:	Date: 23/10/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E084402, N323988	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.4	Medium dark, soft PEAT							
2.5	Medium light grey to greenish grey, gravelly, cobbly SILT/SAND. The gravels are subangular subrounded and occasionally well rounded Quartites, with occasional Red Sandstone and Slate.							
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks:
Scale: 1:25	Rev.:	

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Second Floor, Unit 4B/5  
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Blanchardstown  
Dublin 15

TRIAL PIT LOG

Trial Pit No. 10

Sheet No. 1 of 1

Excavator Type:	Date: 18/11/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E083780, N323797	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.1	Dark brown, peaty GRAVEL, with many cobbles and boulders. Gravels subangular to subrounded Quartzite, Schist, Slate and Red Sandstone							
0.7	Medium brown, clayey, gravelly, fine grained SAND. Gravels are subangular to subrounded							
1.45	Medium grey to greenish grey to light brownish grey, clayey, gravelly, fine to medium grained SAND, with occasional subangular to subrounded cobbles.			Bulk Sample	TP10			
3.2	Medium light grey, sandy, slightly clayey, subangular GRAVEL, with occasional angular, subangular and subrounded cobbles and boulders of Quartzite, Schist and Red Sandstone.							
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. Surface water running into pit excavation because of heavy rain
Scale: 1:25	Rev.:	

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Second Floor, Unit 4B/5  
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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 11

Sheet No. 1 of 1

Excavator Type:	Date: 18/11/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E083837, N323823	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.2	Medium brown, sandy, slightly clayey, peaty GRAVEL, with some cobbles. Gravel is subangular to angular Quartzite, with occasional Schist and Sandstone							
	Light brown to yellowish grey, slightly clayey, gravelly, fine SAND. Subangular gravels of Quartzite and occasional angular boulders of banded Gneiss							
				Bulk Sample	TP11			
3.0	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. No water inflows to pit, dry.
Scale: 1:25	Rev.:	

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Second Floor, Unit 4B/5  
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 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 12

Sheet No. 1 of 1

Excavator Type:	Date: 18/11/03	Client: Bord na Mona/Shell E&P
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Grid Reference: E083925, N323806	Elevation (mOD):	Site: Srahmore, Bangor-Erris, Co. Mayo.
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Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.3	Medium brown, slightly clayey fine grained SAND, with thin layers of peat on top							
3.0	Medium light grey, gravelly, slightly clayey, slightly micaceous SAND with some subangular cobbles and occasional subangular boulders. Gravels are subangular to subrounded Quartzite.  Medium grey to medium light grey gravelly, fine grained SAND with some cobbles and some blocky boulders of Gneiss. Gravels are subrounded and occasionally well rounded			Bulk Sample	TP12A			
				Bulk Sample	TP12B			
	END OF TRIAL PIT							

Logged by: P.K.	Job No.: 1169	Remarks: 1. Increase in moisture content at 3m bgl.
Scale: 1:25	Rev.:	

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Second Floor, Unit 4B/5  
 Blanchardstown Corporate Park  
 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 13

Sheet No. 1 of 1

Excavator Type:                      Date: 18/11/03                      Client: Bord na Mona/Shell E&P

Grid Reference: E084417, N324002                      Elevation (mOD):                      Site: Srahmore, Bangor-Erris, Co. Mayo.

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.25	Medium dark brown to brownish black, soft PEAT, with angular and subrounded gravels and boulders of Quartzite and Schist							
0.75	Medium dark brown to medium brown, Firm CLAY							
3.2	Light grey to medium light grey and light greyish brown, gravelly, silty, fine grained SAND with occasional subangular to subrounded blocky boulders of Gneiss. Gravels are subangular to subrounded, occasionally well rounded, composed of Quartzite Schist, Red Sandstone and Slate.			Bulk Sample	TP13A			
				Bulk Sample	TP13B			
	END OF TRIAL PIT							

Logged by: P.K.                      Job No.: 1169                      Remarks:

Scale: 1:25                      Rev.:

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Second Floor, Unit 4B/5  
 Blanchardstown Corporate Park  
 Blanchardstown  
 Dublin 15

TRIAL PIT LOG

Trial Pit No. 14

Sheet No. 1 of 1

Excavator Type:                      Date: 18/11/03                      Client: Bord na Mona/Shell E&P

Grid Reference: E084647, N324207                      Elevation (mOD):                      Site: Srahmore, Bangor-Erris, Co. Mayo.

Depth m	Description of Strata	Legend	OD Level m	Samples		Water Inflows	Pit Completion	
				Type	Ref. No.		Lining:	Backfill:
0.0								
0.75	Medium brown, gravelly, slightly clayey, fine grained SAND, with some angular cobbles and boulders of Quartzite. Gravels are subangular to angular.							
2.0	Light grey to light yellowish grey, gravelly, cobbly, slightly clayey SAND with some angular boulders of Gneiss. Gravels are subangular to subrounded Quartzite and Red Sandstone.			Bulk Sample	TP14A			
3.5	Medium grey, gravelly, slightly clayey, slightly micaceous SAND with some subangular to subrounded cobbles of Quartzite. Gravels are subangular to subrounded Quartzite.			Bulk Sample	TP14B			
	END OF TRIAL PIT							

Logged by: P.K.                      Job No.: 1169                      Remarks: 1. Increase in moisture content at 1.5m bgl.  
 Scale: 1:25                      Rev.: