

# Appendix 10

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ENVIRONMENTAL PROTECTION  
AGENCY WASTE LICENSE  
RECEIVED  
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INITIALS.....

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# Trial Pit Logs

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# Environment & Resource Management Ltd

No. 3 Tara Court  
Naas, Co. Kildare  
tel 045-874411, fax 045-874549



<b>Trial Pit Log</b>	
<b>TP No.: 1</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES/CW
<b>Date:</b> 15/12/2003	<b>Total Depth (m):</b> 7.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 151.54

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting soft light brown silty CLAY with gravels
0.5 - 7.0	Madeground consisting predominantly of soil/fines 60%, with 40% other materials including bricks, paper, cardboard, glass, textiles, plastics, metal, wood, etc. Fines become stained black with depth
EoH 7.0m	

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Strong decomposition odour  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 4

<b>TP No.: 2</b>	
<b>Trial Pit Log</b>	
<b>Site Location:</b>	Whitestown
<b>Company:</b>	ERMIL
<b>Project No.:</b>	03.116
<b>Geologist:</b>	ES/CW
<b>Date:</b>	15/12/2003
<b>Total Depth (m):</b>	5.0
<b>Excavation Plant:</b>	CAT 322B
<b>Ground Surface Elevation (mOD):</b>	150.85

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting soft light brown silty CLAY with gravel
0.5 - 5.0	Madeground consisting of soil/fines (50%), and other materials (50%) containing wood, bulky wastes (duvets/wiring/washing machines, fabrics, glass & plastics) Fines are stained black with depth
Eoh 5.0m	

Note: Materials brought in in different lifts followed by capping -> bedding effect of material/soil/material/soil etc.

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: Mild  
 Installation: -  
 Water Level: -  
 Development: -

No. of Photos 2

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## Trial Pit Log

TP No.: 3

<b>Site Location:</b> Whitestown	<b>Project No.:</b> 03.116
<b>Company:</b> ERM Ltd	<b>Geologist:</b> ES
<b>Date:</b> 15/12/2003	<b>Total Depth (m):</b> 4.5
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MD):</b> 150.39

Depth: (m)	Material encountered:
0 - 1	Madeground cap consisting of silty CLAY with gravels
1 - 4.5	Madeground consisting of predominantly light brown soil/fines (80%), with other materials (20%) including metal sheets and bars/pipes/wood/plastics layered at top/mingled towards base No staining of fines
EoH 4.5m	

Note: Edge of waste identified at this pit / west of pit wall clear / 4.5m

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
Odour: None - very mild  
Installation: -  
Water Level: -  
Development: -  
No. of Photos 3

<b>Trial Pit Log</b>	
<b>TP No.: 4</b>	
<b>Site Location:</b>	Whitestown
<b>Company:</b>	ERM
<b>Project No.:</b>	03.116
<b>Geologist:</b>	ES
<b>Date:</b>	15/12/2003
<b>Total Depth (m):</b>	4.5
<b>Excavation Plant:</b>	CAT 322B
<b>Ground Surface Elevation (MOD):</b>	149.33

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting light brown silty CLAY with pebbles
0.5 - 4.5	Madeground consisting of soils/fines (30%) and other materials (70%), including lot of packaging waste/cardboard boxes, newspapers etc. Box of disposable latex gloves and boot covers
EoH 4.5m	

Note: Newspaper dated 22 June 2000, included in materials

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: Mild/moderate waste odour  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 3

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<b>Trial Pit Log</b>	
<b>TP No.: S</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 15/12/2003	<b>Total Depth (m):</b> 5.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 150.24

Depth: (m)	Material encountered:
0 - 0.4	Madeground cap consisting of a very thin layer light brown silty CLAY with gravel
	Transition very obvious (brown-dark brown fines)
0.4 - 5	Madeground consisting of dark stained soil/fines (30%) and predominantly other materials (70%), including wood, concrete blocks, green plastic sheeting, metal bars, pipes
Eoh 5m	Note: Materials included tin of red powder

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Mild  
**Installation:**  
**Water Level:**  
**Development:**  
**No. of Photos:** 3

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<b>Total Pit Log</b>	
<b>TP No.:</b> 6	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 15/12/2003	<b>Total Depth (m):</b> 5.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 150.54

Depth: (m)	Material encountered:
0 - 0.4	Madeground cap light brown silty CLAY with gravels
0.4 - 5	Madeground consisting of dark brown-black stained soil/fines (40%) and other materials (60%), including timber/wood, stone, bricks, metal bars, tyres, wires, carpets, plastic sheeting, scrap metal, magazines including Ambulance Magazine
Eoh 5m	Note: Materials very dark and biodegraded

**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Mild - moderate  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Trial Pit Log

**TP No.:** 7

<b>Site Location:</b> Whitestown	<b>Project No.:</b> 03.116
<b>Company:</b> ERM	<b>Geologist:</b> ES
<b>Total Depth (m):</b> 7.0	<b>Date:</b> 15/12/2003
<b>Ground Surface Elevation (MOD):</b> 149.69	<b>Excavation Plant:</b> CAT 322B

Depth: (m)	Material encountered:
0 - 0.75	Madeground cap light brown silty CLAY with gravel
0.75 - 7	Madeground consisting predominantly of soil/fines (70%) and other materials (30%) including plastic sheeting, concrete blocks, wood/timber, bottles, scrap metal, metal pipes, stones layered with fines/(all in soils -> sand and gravels and less other materials (10%))
EoH 7m	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Mild  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Trial Pit Log

TP No.: 8

Site Location: Whitestown	Excavation Plant: CAT 322B
Project No.: 03.116	Date: 15/12/2003
Geologist: ES	Total Depth (m): 7.0
Company: ERM	Ground Surface Elevation (mOD): 149.54

Depth: (m)	Material encountered:	Direction	Description
0 - 0.2	Madeground cap light brown silty CLAY with gravel		
0.2 - 3	Madeground consisting of predominantly soil/fines (70%) and layers of other materials (30%), including plastic sheeting, wood, plastic bags, stones, bricks, refractive surgeons bags for magazines	NORTH	
3.0 - 7.0	Madeground 100% soil/fines		
0.2 - 7	Madeground consisting of predominantly soil/fines (70%) and layers of other materials (30%), including plastic sheeting, wood, plastic bags, stones, bricks, etc.	SOUTH	
Eoh 7m			

Water Entry: None  
 Odour: Mild  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos: None

\*NOTE: All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

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<b>TP No.: 9</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 15/12/2003	<b>Total Depth (m):</b> 5.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 149.26

Depth: (m)	Material encountered:
0 - 0.2	Madeground cap composed of light brown silty CLAY with gravel
0.2 - 5.0	Madeground comprising soil/fines (50%) and other materials (50%) - Wood, carpets, blocks, stone, plastic pipes No bulk materials, very mingled with fines, very dark stained in places
EoH: 5.0m	

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\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Mild  
**Installation:**  
**Water Level:**  
**Development:**  
**No. of Photos:** None

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## Trial Pit Log

**TP No.:** 10

<b>Site Location:</b>	Whitestown	<b>Company:</b>	ERM L
<b>Project No.:</b>	03.116	<b>Geologist:</b>	ES
<b>Date:</b>	15/12/2003	<b>Total Depth (m):</b>	4.0
<b>Excavation Plant:</b>	CAT 322B	<b>Ground Surface Elevation (MOD):</b>	149.17

Depth: (m)	Material encountered:	EoH: 4.0m
0 - 0.5	Madeground cap composed of light brown silty CLAY with gravel	
0.5 - 4	Madeground consisting of predominantly soil/fines (60%) and other materials (40%) in layers of various thicknesses including textiles, carpets, wood, plastic oil drums (crushed), plastics	
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<p><b>*NOTE:</b> All descriptions are based on field observations The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.</p>		
<p><b>Water Entry:</b> None <b>Odour:</b> Moderate <b>Installation:</b> - <b>Water Level:</b> - <b>Development:</b> -</p>		
<p><b>No. of Photos:</b> None</p>		

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<b>Trial Pit Log</b>	
<b>TP No.: 11</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 16/12/2003	<b>Total Depth (m):</b> 3.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 148.67

<b>Depth: (m)</b>	0 - 3.0	EoH: 3.0m
<b>Material encountered:</b>	Natural ground composed of sands and gravels	

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**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Trial Pit Log

TP No.: 12

Site Location: Whitestown	Excavation Plant: CAT 322B
Project No.: 03.116	Date: 16/12/2003
Geologist: ES	Total Depth (m): 5.0
Company: ERM	Ground Surface Elevation (mOD): 148.92

Depth: (m)	Material encountered:	South side	North side	EOH: 5.0m	
0 - 0.4	Madeground cap composed of light brown silty CLAY with gravel				<p><b>*NOTE:</b> All descriptions are based on field observations</p> <p>The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.</p> <p><b>Water Entry:</b> None</p> <p><b>Odour:</b> Mild</p> <p><b>Installation:</b> -</p> <p><b>Water Level:</b> -</p> <p><b>Development:</b> -</p> <p><b>No. of Photos:</b> 5</p>
0.4 - 0.7	Other materials - plastic sheeting/packaging				
0.7 - 5.0	Natural - Sands and gravels				
0 - 1.0	Madeground cap composed of light brown silty CLAY with gravel				
1.0 - 5.0	Madeground consisting of soil/fines (50%) and other materials (50%) including wood, plastic pipes, plastic sheeting (clear and blue), packaging, stones, fabrics, a bicycle				



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## Trial Pit Log

TP No.: 13

Site Location: Whitestown	Excavation Plant: CAT 322B
Project No.: 03.116	Date: 16/12/2003
Geologist: ES	Total Depth (m): 4.5
Company: ERM	Ground Surface Elevation (mOD): 149.28

Depth: (m)	Material encountered:
0 - 1.0	Madeground cap comprising clayey SAND with gravels
1.0 - 4.5	Madeground consisting of soil/fines (80%) and other materials (20%) including metal bars, wiring, wheels, tyres, plastic sheeting, stones, bricks, concrete bars

Note: (towards base of pit - soil/fines = 95% & other materials = 5% in layers)

EoH: 4.5m

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
Odour: Mild  
Installation: -  
Water Level: -  
Development: -  
No. of Photos 3

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<b>TP No.: 14</b>	
<b>Trail Pit Log</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 16/12/2003	<b>Total Depth (m):</b> 5.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 150.92

Depth: (m)	Material encountered:	EoH: 5.0m
0 - 0.5	Madeground cap comprising light brown sandy CLAY with gravel	
0.5 - 5	Natural ground consisting of light brown clayey SAND with gravel	

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\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Trial Pit Log

**TP No.: 15**

<b>Site Location:</b> Whitestown	<b>Project No.:</b> 03.116	<b>Date:</b> 16/12/2003	<b>Excavation Plant:</b> CAT 322B
<b>Company:</b> ERM	<b>Geologist:</b> ES	<b>Total Depth (m):</b> 4.5	<b>Ground Surface Elevation (MOD):</b> 147.47

Depth: (m)	Material encountered:	EoH: 4.5m
0 - 0.5	Madeground cap comprising light brown sandy CLAY	
0.5 - 1.2	Natural ground consisting grey clayey SAND	
1.2 - 4.5	Natural ground consisting light brown clayey SAND with stones/gravel - very clean	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

<b>TP No.: 16</b>	
<b>Thal Pit Log</b>	
<b>Site Location:</b>	Whitestown
<b>Project No.:</b>	03.116
<b>Date:</b>	16/12/2003
<b>Excavation Plant:</b>	CAT 322B
<b>Ground Surface Elevation (mOD):</b>	146.18
<b>Total Depth (m):</b>	4.5
<b>Geologist:</b>	ES
<b>Company:</b>	ERM

<b>Depth: (m)</b>	<b>Material encountered:</b>
0 - 0.3	Madeground cap comprising light brown silty CLAY with gravel
0.3 - 4.5	Transition obvious as material rich layer heavily stained Madeground composed of stained soil/fines (40%) and other materials (60%), containing black plastic sheeting, wood, scrap metal, fire extinguisher etc.
EoH: 4.5m	
<p>Note: North face of excavation is clear of other materials</p> <p>*NOTE: All descriptions are based on field observations The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.</p> <p><b>Water Entry:</b> Influx of water @ 3m = trapped surface water / perched</p> <p><b>Odour:</b> Moderate</p> <p><b>Installation:</b> -</p> <p><b>Water Level:</b> -</p> <p><b>Development:</b> -</p> <p><b>No. of Photos:</b> 4</p>	

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### Trial Pit Log

**TP No.:** 17

**Site Location:** Whitestown **Company:** ERML  
**Project No.:** 03.116 **Geologist:** ES  
**Date:** 16/12/2003 **Total Depth (m):** 3.5  
**Excavation Plant:** CAT 322B **Ground Surface Elevation (mOD):** 147.2

**Depth: (m)**

**Material encountered:**

0 - 0.5 Madeground cap comprising light brown sandy CLAY with gravel

0.5 - 3.5 Madeground consisting of soil/fines (20%) with other materials (80%), including plastic sheeting, metal bars, wood, packaging, bottles, empty food packaging, kids toys, scrap metal, concrete. Materials - stained, quite decomposed and shredded

EoH: 3.5m

Note: Obstruction at 3.5m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** Moderate

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos:** None



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### Trial Pit Log

**TP No.:** 18

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** ES

**Date:** 17/12/2003

**Total Depth (m):** 4.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 145.08

**Depth: (m)**

**Material encountered:**

0 - 1.5 Madeground cap comprising light brown clayey SILT (gravel washings)

1.5 - 4.0 Madeground consisting of soil/fines (30%) & other materials (70%), including wood, coal sacks, stones, plastic sheeting, plastic pipes, cardboard packaging, carpet, strips of metal, bricks, video tape, glass, wires (some shredded)

EoH: 4.0m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:**

**Water Level:**

**Development:**

**No. of Photos** 4

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<b>TP No.: 19</b>	
<b>Trial Pit Log</b>	
<b>Site Location:</b>	Whitestown
<b>Company:</b>	ERM
<b>Project No.:</b>	03.116
<b>Geologist:</b>	CW/ES
<b>Date:</b>	17/12/2003
<b>Total Depth (m):</b>	7.0
<b>Excavation Plant:</b>	CAT 322B
<b>Ground Surface Elevation (mOD):</b>	144.27

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting of soft light brown silty clay with some gravels etc
0.5 - 5.0	Madeground consisting of soil fines (25%) & other materials (75%), including wood, plastics, metal fragments, blocks, concrete, glass, paper, wiring, cardboard, rebars, metal sheeting Zone C appears older (more decomposed). No odour, high temp apparent. Some of the material body has gone through shredding process.
5.0 - 6.0	Natural ground, consisting loose light grey clayey silty GRAVEL with coarse sand, pebbles and cobbles
Eoh 7m	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: Moderate  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos: 5

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## Trial Pit Log

TP No.: 20

Site Location: Whitestown  
 Project No.: 03.116  
 Date: 17/12/2003  
 Excavation Plant: CAT 322B  
 Ground Surface Elevation (MOD): 146.61  
 Total Depth (m): 2.0  
 Geologist: CW/ES  
 Company: ERML

### Material encountered:

Depth: (m) 0 - 2.0  
 Madeground consisting of soft light brown clayey SILT (gravel washings)

Eoh 2m

Note: Appears to be edge of madeground body

\*NOTE: All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

No. of Photos 2

Water Entry: -

Odour: -

Installation: -

Water Level: -

Development: -



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## Trial Pit Log

TP No.: 21

Site Location: Whitestown	Excavation Plant: CAT 322B
Project No.: 03.116	Date: 17/12/2003
Geologist: CW/ES	Total Depth (m): 3.0
Company: ERML	Ground Surface Elevation (mOD): 146.89

Depth: (m)	Material encountered:
0 - 1.8	Madeground cap consisting of soft light brown clayey SILT (gravel washings)
1.8 - 3.0	Madeground consisting of predominantly clayey SILT (gravel washings) (90%) with (10%) other materials including plastics, glass, wood, metal etc.
EoH 3m	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: 2.5m

Odour: Slight odour

Installation: -

Water Level: -

Development: -

No. of Photos 2

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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 22

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 17/12/2003

Total Depth (m): 4.0

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): 147.05

Depth: (m)

Material encountered:

0 - 0.5 Madeground cap consisting of soft light brown clayey SILT

0.5 - 4.0 Madeground consisting of stained soils/fines (40%) & other materials (60%) including predominantly metal rebars, wiring, electrical cables etc.

EoH 4.0m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** Very slight

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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### Trial Pit Log

**TP No.:** 23

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 17/12/2003

**Total Depth (m):** 2.5

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 147.02

**Depth: (m)**

**Material encountered:**

0 - 2.5

Madeground consisting soft light brown clayey SILT (gravel washings).  
No evidence of other materials.

EoH 2.5m

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**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** -

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 24

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 17/12/2003

Total Depth (m): 3.0

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): 147.38

#### Depth: (m)

#### Material encountered:

- 0 - 1.5 Madeground cap consisting of soft clayey SILT (gravel washings)
- 1.5 - 3.0 Madeground consisting of soil/fines (40%) (heavily stained with leachate) & other materials (60%), including bricks, metal, concrete, plastics, wood, significant glass present
- EoH 3m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** ca. 3.0m. Leachate present. Strong odours

**Odour:** Moderate/strong

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 3

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<b>Total Pit Log</b>	
<b>TP No.: 25</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 2.0
<b>Excavation Plant:</b> CAT 3228	<b>Ground Surface Elevation (MOD):</b> 148.25

Depth: (m)	Material encountered:
0 - 0.2	Madeground cap soft clayey SILT
0.2 - 2.0	Madeground dense silty CLAY with angular gravels (old road foundation)
EoH 2m	

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** none  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** None



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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 26

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 17/12/2003

**Total Depth (m):** 3.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 147.47

#### Depth: (m)

#### Material encountered:

0 - 3.0 Madeground loose light brown silty/fine SAND. Clean to west of pit

0.5 - 1.0 Madeground including other materials, consisting of very shredded paper, cardboard and plastics

EoH 3m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** Slight

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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## Trial Pit Log

**TP No.: 27**

**Site Location:** Whitestown

**Project No.:** 03.116

**Date:** 17/12/2003

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (MOD):** 147.00

**Total Depth (m):** 3.0

**Geologist:** CW/ES

**Company:** ERML

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting of clayey SILT with some gravels
0.5 - > 3.0	Madeground consisting very mixed materials consisting of shredded paper, plastics, wood, cardboard, metal, textiles, etc.
EoH: 3.0m	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Moderate odour, no water entry/leachate  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos 2**

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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 28

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 17/12/2003

**Total Depth (m):** 3.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 147.07

**Depth: (m)**

**Material encountered:**

0 - 0.5 Madeground cap consisting of soft light brown clayey SILT with some gravels

0.5 - 3.0 Madeground consisting of slightly stained soil/fines (50%) & other materials (50%), including predominantly wiring, hosing, metal fragments, plastics, wood, chipboard etc

EoH: 3.0m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** Slight

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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<b>TP No.: 29</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 3.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 143.27

Depth: (m)	Material encountered:	EoH: 3.0m
0 - 0.5	Madeground cap consisting of soft light brown clayey SILT with gravels	
0.5 - 2.6	Madeground consisting of clean soil/fines (80%) & other material (20%) including bricks, plastic, metals, paper, cardboard, glass, textiles appears to be at the edge of the waste body (i.e. end of ramp and elevated ground)	
2.6 - 3.0	Natural ground consisting dense dark brown, grey clayey silty GRAVELS with sand, cobbles and occasional boulders. Very dense	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** Slight at 2.6m  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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**Thal Pit Log**

**TP No.: 30**

<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 3.8
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MD):</b> 142.94

Depth: (m)	Material encountered:
0 - 3.8	Natural ground consisting of light brown loose silty clayey very fine SAND with pebbles, cobbles and occasional boulders
EoH: 3.8m	

*\*NOTE: All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.*

Water Entry: None  
 Odour: None  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 2

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<b>Trial Pit Log</b>	
<b>TP No.: 31</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 3.0
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 143.34

<b>Depth: (m)</b>	0 - 0.2	Topsoil (silty CLAY) with grass rootlets etc.	
	0.2 - 3.0	Natural ground consisting of loose light brown silty clayey very coarse SAND with pebbles, cobbles and occasional boulders	
	EoH: 3.0m		

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos 2**

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<b>Trial Pit Log</b>	
<b>TP No.: 32</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 4.1
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 143.72

Depth: (m)	Material encountered:
0 - 0.2	Topsoil consisting of silty clays with grass roots, organics etc.
0.2 - 4.1	Natural ground consisting of loose light brown silty clayey very fine SAND with pebbles, cobbles and occasional boulders
EoH: 4.1m	

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\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
Odour: None  
Installation: -  
Water Level: -  
Development: -  
No. of Photos 3

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## Trench Pit Log

TP No.: 33

<b>Site Location:</b>	Whitestown	<b>Company:</b>	ERM/L
<b>Project No.:</b>	03.116	<b>Geologist:</b>	CW/ES
<b>Date:</b>	17/12/2003	<b>Total Depth (m):</b>	3.8
<b>Excavation Plant:</b>	CAT 322B	<b>Ground Surface Elevation (MOD):</b>	142.91

<b>Depth: (m)</b>	0 - 0.2	<b>Material encountered:</b>	Topsoil, grass rootlets and organics
	0.2 - 3.8		Natural ground consisting of loose dark brown clay silty very fine SAND with pebbles, cobbles and occasional boulders
	EoH: 3.8m		

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -

**No. of Photos:** 2

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### Trial Pit Log

**TP No.:** 34

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 17/12/2003

**Total Depth (m):** 3.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 144.47

**Depth: (m)**

**Material encountered:**

0 - 0.2 Topsoil, grass rootlets and organics etc.

0.2 - 3.0 Natural ground consisting of loose light brown silty clayey very fine SAND with pebbles, cobbles and occasional boulders

EoH: 3.0m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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<b>Trial Pit Log</b>	
<b>TP No.: 35</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 3.2
<b>Excavation Plant:</b> CAT 3228	<b>Ground Surface Elevation (MOD):</b> 146.08

Depth: (m)	Material encountered:	Note:	EoH: 3.2m
0 - 0.2	Topsoil, grass rootlets etc.		
0.2 - 3.2	Natural ground consisting loose light brown silty clayey very fine SAND with pebbles, cobbles & occasional boulders		
		No waste	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 36

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 17/12/2003

Total Depth (m): 3.5

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): 146.37

#### Depth: (m)

#### Material encountered:

0 - 0.2 Topsoil, grass rootlets etc.

0.2 - 3.5 Natural ground consisting of loose light brown silty clayey very fine SAND with pebbles, cobbles and occasional boulders

EoH: 3.5m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

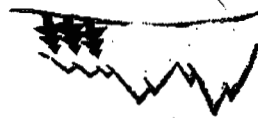
**No. of Photos** 2

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<b>Trial Pit Log</b>	
<b>TP No.: 37</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 17/12/2003	<b>Total Depth (m):</b> 3.6
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 144.29

Material encountered:	Depth: (m)
Topsoil, grass rootlets etc.	0 - 0.2
Natural ground consisting loose light brown silty clayey very fine SAND with pebbles cobbles & very occasional boulders	0.2 - 3.6
EoH: 3.6m	

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 3



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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 38

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** ES/CW

**Date:** 18/12/2003

**Total Depth (m):** 3.5

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 146.59

**Depth: (m)**

**Material encountered:**

0 - 3.5 Madeground consisting loose dark brown/grey clayey silty very fine SAND & some traces of other materials (e.g. Cans, metal fragments (<1%))

EoH 3.5m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** N/A

**Water Level:** -

**Development:** -

**No. of Photos** 2

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Trial Pit Log	
<b>TP No.: 39</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES/CW
<b>Date:</b> 18/12/2003	<b>Total Depth (m):</b> 4.5
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 143.27

Depth: (m)	Material encountered:
0 - 0.2	Topsoil /grass rootlets, etc.
0.2 - 1.0	Madeground consisting soft, light brown clayey SILT with some sand & gravel
1.0 - 4.5	Madeground consisting soil/fines (40%) (heavily stained) & other materials (60%) consisting predominantly plastics, paper, wood, metal, concrete & glass
4.5 - 5.5	Natural ground consisting loose light brown clayey silty fine SAND with some gravels

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** ca. 3.6m  
**Odour:** Strong  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** None

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<b>TP No.: 40</b>	
<b>TRIAL PIT LOG</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Date:</b> 18/12/2003	<b>Total Depth (m):</b> 4.8
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 143.18

Depth: (m)	Material encountered:
0 - 1.2	Madeground consisting soft light brown clayey SILT with some pebbles
1.2 - 2.1	Madeground consisting fines, pebbles, cobbles, etc. (90%) & other materials (10%), including paper, cardboard, glass, plastics, metals
2.1 - 3.0	Madeground consisting loose brown clayey silty GRAVEL, predominantly cobbles & boulders (soak pit?)
3.0 - 4.5	Madeground consisting soil/fines (90%) - slightly stained & other materials (10%) including paper, cardboard, glass, plastics, metals
4.5 - 4.8	Natural ground consisting loose light brown silty clayey fine SAND with some pebbles & cobbles
Eoh 4.8m	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos 1**

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Trench Pit Log	
<b>TP No.:</b> 41	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 18/12/2003	<b>Total Depth (m):</b> 3.5
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MD):</b> 143.10

Depth: (m)	Material encountered:
0 - 0.8	Madeground cap consisting soft light brown clayey SILT with some gravels
0.8 - 2.9	Madeground consisting of fines/soils (40%) (moderately stained) & other materials (60%), including bricks, plastic, metals, paper, cardboard, textiles
2.9 - 3.5	Natural ground consisting loose silty clayey very fine SAND with pebbles & cobbles
Eoh 3.5m	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None (perhaps some at base of waste - 2.9m or just trapped surface water?)  
**Odour:** Strong  
**Installation:** -  
**Water Level:** -  
**Development:** -

**No. of Photos** 2

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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 42

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 18/12/2003

Total Depth (m): 2.5

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): 143.89

#### Depth: (m)

#### Material encountered:

0 - 0.7 Madeground cap consisting soft light brown clayey SILT with sands & some gravel

0.7 - 1.6 Madeground consisting soil/fines (80%) lightly stained & other material (20%), including bricks, metals, paper, cardboard, plastics

1.6 - 2.5 Natural ground consisting loose light brown clayey silty very fine grained SAND, with some pebbles & cobbles

EoH 2.5m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** some perched water @ 1.4m

**Odour:** very slight

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 43

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 18/12/2003

**Total Depth (m):** 2.5

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 142.59

**Depth: (m)**

**Material encountered:**

0 - 2.5 Madeground consisting loose light brown clayey silty very fine SAND, with pebbles, cobbles & occasional boulders

EoH 2.5m

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**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 44

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 18/12/2003

Total Depth (m): 2.0

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): - not surveyed -

Depth: (m)

Material encountered:

0 - 2.0 Madeground consisting loose light brown silty, clayey very fine SAND with pebbles, cobbles, etc.

EoH 2m

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**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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**Trial Pit Log**

**TP No.: 45**

<b>Site Location:</b> Whitestown	<b>Project No.:</b> 03.116	<b>Date:</b> 18/12/2003	<b>Excavation Plant:</b> CAT 322B
<b>Company:</b> ERML	<b>Geologist:</b> CW/ES	<b>Total Depth (m):</b> 3.0	<b>Ground Surface Elevation (MOD):</b> 144.23

Depth: (m)	Material encountered:
0 - 0.4	Madeground cap - light brown clayey, silty very fine SAND with some gravels
0.4 - 1.9	Madeground consisting soil/fines (50%) mildly stained & other materials (40%), including wood, glass, plastics, metals, paper, cardboard
1.9 - 3.0	Natural ground consisting loose light brown clayey silty very fine SAND with pebbles, cobbles & occasional boulders
Eoh 3m	

**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: Moderate  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 2



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### Trial Pit Log

**TP No.:** 46

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 18/12/2003

**Total Depth (m):** 3.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 144.17

**Depth: (m)**

**Material encountered:**

0 - 3.0 Natural ground consisting light brown clayey silty very fine SAND, with pebbles, cobbles & occasional boulders

EoH: 3.0m

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**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos:** 2

**Environment & Resource Management Ltd**

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<b>Trial Pit Log</b>	
<b>TP No.: 47</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM/L
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 18/12/2003	<b>Total Depth (m):</b> 1.5m
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 143.45

<b>Depth: (m)</b>	<b>Material encountered:</b>	<b>EOH: 1.5m</b>
0 - 1.5	Natural ground consisting very dense clayey silt very fine SAND with pebbles, cobbles & occasional boulders	

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**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Trench Pit Log

TP No.: 48

Site Location:	Whitestown	Project No.:	03.116
Company:	ERM/L	Geologist:	CW/ES
Total Depth (m):	2.0	Date:	18/12/2003
Excavation Plant:	CAT 322B	Ground Surface Elevation (MOB):	144.92

Material encountered:	Depth: (m)
Madeground cap, consisting loose light brown silty clayey SAND - gravel washings	0 - 0.5
Natural ground consisting light brown silty clayey very fine SAND with pebbles, cobbles & occasional boulders	0.5 - 2.0
	EOH: 2.0m

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
Odour: None  
Installation: -  
Water Level: -  
Development: -  
No. of Photos 2

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## Trench Pit Log

**TP No.:** 49

**Site Location:** Whitestown

**Project No.:** 03.116

**Date:** 18/12/2003

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 145.57

**Total Depth (m):** 4.0

**Geologist:** ES

**Company:** ERM

<b>Excavation Plant:</b>	CAT 322B	<b>Ground Surface Elevation (mOD):</b>	145.57
<b>Date:</b>	18/12/2003	<b>Total Depth (m):</b>	4.0
<b>Project No.:</b>	03.116	<b>Geologist:</b>	ES
<b>Site Location:</b>	Whitestown	<b>Company:</b>	ERM

Depth: (m)	Material encountered:	EoH: 4.0m
0 - 0.8	Madeground cap consisting clayey, silty very fine SAND with gravels	
0.8 - 1.5	Madeground consisting soil/fines (70%) lightly stained & other materials (30%), including bricks, wood, glass, plastic, paper, cardboard	
1.5 - 4.0	Natural ground consisting clayey silty very fine SAND with pebbles, cobbles & occasional boulders	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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**Thal Pit Log**

**TP No.: 50**

Site Location: Whitestown  
 Project No.: 03.116  
 Date: 18/12/2003  
 Excavation Plant: CAT 322B  
 Company: ERM  
 Geologist: CW/ES  
 Total Depth (m): 4.5  
 Ground Surface Elevation (mOD): 147.53

**Depth: (m)**  
 0 - 4.5  
 Madeground consisting dark brown clayey sandy SILT with pebbles, cobbles & occasional boulders  
 EOH: 4.5m  
**Material encountered:**

**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: None  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 2

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## Trial Pit Log

**TP No.: S1**

<b>Site Location:</b>	Whitestown	<b>Company:</b>	ERML
<b>Project No.:</b>	03.116	<b>Geologist:</b>	CW/ES
<b>Date:</b>	18/12/2003	<b>Total Depth (m):</b>	4.2
<b>Excavation Plant:</b>	CAT 322B	<b>Ground Surface Elevation (MOD):</b>	146.14

Depth: (m)	Material encountered:	EoH: 4.2m
0 - 0.2	Madeground cap consisting loose clayey silty fine SAND with gravels	
0.2 - 1.1	Madeground consisting soil/fines (60%) & other materials to northwest only, including wood, glass, plastic, metals	
1.1 - 4.2	Natural light brown clayey silty very fine SAND with pebbles, cobbles & occasional boulders	

Note: Edge of madeground

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Tidal Pit Log

TP No.: **S2**

Company: ERML	Site Location: Whitestown
Geologist: ES	Project No.: 03.116
Total Depth (m): 5.0	Date: 18/12/2003
Ground Surface Elevation (MOD): 146.25	Excavation Plant: CAT 322B

Material encountered:	Depth: (m)
Madeground cap comprising light brown silty clayey very fine SAND	0 - 0.4
Madeground consisting heavily stained sou/mrnes (40%) & other material (60%) Materials very decomposed & heavily stained, including concrete bricks, wood, glass, plastic, metals, paper, cardboard, textiles	0.4 - 5.0
Material body > 5m thick	EoH: 5.0m

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: Moderate - strong  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 3 (west/east/heap)

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## Trial Pit Log

**TP No.: 53**

<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 146.77
<b>Date:</b> 18/12/2003	<b>Total Depth (m):</b> 4.8
<b>Project No.:</b> 03.116	<b>Geologist:</b> ES
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM

Depth: (m)	Material encountered:	Eoh: 4.8m
0 - 0.5	Madeground cap comprising loose light brown silty clayey SAND with gravels	
0.5 - 4.8	Madeground consisting soil/fines (35%) & other materials (65%) which are very heavily stained. Material body appears very decomposed. Materials include concrete bricks, wood, glass, plastic, metals, paper, cardboard	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Very strong  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 3 (heap/south/north)

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### Trial Pit Log

TP No.: 54

Site Location: Whitestown Company: ERML  
Project No.: 03.116 Geologist: CW/ES  
Date: 18/12/2003 Total Depth (m): 4.0  
Excavation Plant: CAT 322B Ground Surface Elevation (mOD): 146.67

**Depth: (m)**

**Material encountered:**

0 - 0.4 Madeground cap consisting light brown silty clayey SAND  
0.4 - 4.0 Madeground consisting soil/fines (50%) - moderate staining & other materials (50%), including concrete bricks, wood, glass, plastic, metals, textiles  
EoH: 4.0

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely Indicative.

**Water Entry:** None

**Odour:** Moderate

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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**Trial Pit Log**

**TP No.: SS**

**Site Location:** Whitestown

**Project No.:** 03.116

**Date:** 18/12/2003

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 146.97

**Total Depth (m):** 3.5

**Geologist:** CW/ES

**Company:** ERM

Excavation Plant:	CAT 322B	Ground Surface Elevation (mOD):	146.97
Date:	18/12/2003	Total Depth (m):	3.5
Project No.:	03.116	Geologist:	CW/ES
Site Location:	Whitestown	Company:	ERM

Depth: (m)	Material encountered:
0 - 0.5	Madeground cap consisting light brown silty clay very fine SAND, with gravels
0.5 - 2.9	Madeground consisting of soil/fines (40%) - lightly stained & other material (60%), including concrete bricks, wood, glass, plastic, metal, paper, cardboard
2.9 - 3.5	Natural ground consisting light brown clayey silty very fine SAND with pebbles, cobbles & occasional boulders
EoH: 3.5m	

**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** Slight / moderate  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** None - too dark



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### Trial Pit Log

TP No.: 56

Site Location: Whitestown Company: ERML  
Project No.: 03.116 Geologist: CW/ES  
Date: 19/12/2003 Total Depth (m): 5.5  
Excavation Plant: CAT 322B Ground Surface Elevation (mOD): 147.75

Depth: (m)	Material encountered:
0 - 4.8	Madeground consisting loose light brown clayey silty very fine SAND, with gravels & some waste (<1%) - gravel washings
4.8 - 5.5	Madeground consisting light brown clayey silty very fine SAND with some other material (10%), including heater, wood, etc.
	Presumed start of material body @ 4.8m below gravel washings
EoH 5.5m	

\*NOTE: All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None

Odour: None

Installation: -

Water Level: -

Development: -

No. of Photos None - too dark

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## Trial Pit Log

TP No.: 57

Site Location: Whitestown  
 Project No.: 03.116  
 Date: 19/12/2003  
 Excavation Plant: CAT 322B  
 Ground Surface Elevation (MOD): 143.44  
 Total Depth (m): 7.5  
 Geologist: CW/ES  
 Company: ERM

Material encountered:	Depth: (m)
Madeground consisting soft light brown clayey sandy SILT with some gravels (washings) (ca. 1% other materials present)	0 - 2.7
Madeground consisting predominantly (90%) soft light brown clayey sandy SILT with ca. 10% other materials (bricks, wood, plastics, etc.) - no staining of fines	2.7 - 7.5
EOH	7.5m

\*NOTE: All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: None  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 2

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### Trial Pit Log

**TP No.:** 58

**Site Location:** Whitestown

**Company:** ERML

**Project No.:** 03.116

**Geologist:** CW/ES

**Date:** 19/12/2003

**Total Depth (m):** 5.0

**Excavation Plant:** CAT 322B

**Ground Surface Elevation (mOD):** 145.89

**Depth: (m)**

**Material encountered:**

0 - 5.0

Madeground consisting light brown clayey sandy SILT with ca. 1% other materials (predominantly wood)

EoH 5.0m

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**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely Indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2



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### Trial Pit Log

TP No.: 59

Site Location: Whitestown Company: ERML  
Project No.: 03.116 Geologist: CW/ES  
Date: 19/12/2003 Total Depth (m): 5.0  
Excavation Plant: CAT 322B Ground Surface Elevation (mOD): 146.85

#### Depth: (m)

#### Material encountered:

0 - 3.0 Madeground consisting loose light brown clayey sandy SILT (<1% other materials - wood & metal)

3.0 - 5.0 Natural ground consisting loose dark grey clayey silty (fine - coarse) SAND, with pebbles, cobbles & occasional boulders.

EoH 5.0m

\*NOTE: All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely Indicative.

Water Entry: None

Odour: None

Installation: -

Water Level: -

Development: -

No. of Photos 2



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## Environment & Resource Management Ltd

### Trial Pit Log

TP No.: 60

Site Location: Whitestown

Company: ERML

Project No.: 03.116

Geologist: CW/ES

Date: 19/12/2003

Total Depth (m): 3.5

Excavation Plant: CAT 322B

Ground Surface Elevation (mOD): 143.83

Depth: (m)	Material encountered:
0 - 0.4	Madeground cap consisting loose light brown clayey sandy SILT
0.4 - 3.5	Natural / Madeground? Consisting loose dark grey clayey silty fine SAND - clean
	No other materials
EoH 3.5m	

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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T141 Pit Log	
<b>TP No.:</b> 61	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERM
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 19/12/2003	<b>Total Depth (m):</b> 5.3
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 142.68

Depth: (m)	Material encountered:
0 - 0.4	Madeground cap consisting light brown clayey sandy SILT
0.4 - 4.8	Madeground consisting of lightly stained soil/fines (50%) & other materials (50%), including concrete bricks, wood, plastic, glass, metal, paper, cardboard
4.8 - 5.3	Natural ground consisting light brown clayey silty very fine SAND with some cobbles, boulders, etc.
Eoh 5.3m	

\*NOTE: All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** very slight  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 62

**Site Location:** Whitestown **Company:** ERML

**Project No.:** 03.116 **Geologist:** CW/ES

**Date:** 19/12/2003 **Total Depth (m):** 3.5

**Excavation Plant:** CAT 322B **Ground Surface Elevation (mOD):** 142.05

**Depth: (m)**

**Material encountered:**

0 - 0.4 Madeground cap consisting soft light brown clayey sandy SILT, with some gravels

0.4 - 3.5 Madeground consisting waste soil/fines (65%) & other materials (35%). Waste slightly stained with large metal sheeting, wood fragments, bricks etc.

Pit collapsing

EoH 5.3m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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<b>Trial Pit Log</b>	
<b>TP No.: 63</b>	
<b>Site Location:</b> Whitestown	<b>Company:</b> ERML
<b>Project No.:</b> 03.116	<b>Geologist:</b> CW/ES
<b>Date:</b> 19/12/2003	<b>Total Depth (m):</b> 3.7
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (mOD):</b> 141.90

Material encountered:	Depth: (m)
Madeground cap consisting soft light brown clayey sandy SILT, with some gravels	0 - 3.1
Madeground consisting other materials (100%) consisting of wood chippings	3.1 - 3.7
Eoh	3.7m

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** 3.1m in wood chippings  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 3



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## Environment & Resource Management Ltd

### Trial Pit Log

**TP No.:** 64

**Site Location:** Whitestown **Company:** ERML  
**Project No.:** 03.116 **Geologist:** CW/ES  
**Date:** 19/12/2003 **Total Depth (m):** 3.0  
**Excavation Plant:** CAT 322B **Ground Surface Elevation (mOD):** 142.52

**Depth: (m)**

**Material encountered:**

0 - 0.2 Topsoil / grass rootlets

0.2 - 3.0 Natural ground consisting soft light grey silty clayey very fine SAND with pebbles, cobbles & occasional boulders. Soil stiffer with depth / similar to boulder clay.

No other materials

EOH: 3.0m

**\*NOTE:** All descriptions are based on field observations

The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None

**Odour:** None

**Installation:** -

**Water Level:** -

**Development:** -

**No. of Photos** 2

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## Trial Pit Log

**TP No.: 65**

<b>Site Location:</b> Whitestown	<b>Project No.:</b> 03.116
<b>Company:</b> ERM	<b>Geologist:</b> CW/ES
<b>Total Depth (m):</b> 4.1	<b>Date:</b> 19/12/2003
<b>Excavation Plant:</b> CAT 322B	<b>Ground Surface Elevation (MOD):</b> 140.32

Depth: (m)	Material encountered:	EoH: 4.1m
0 - 0.2	Topsoil / grass rootlets, etc.	
0.2 - 2.1	Madeground consisting loose clayey silty very fine SAND with pebbles, cobbles, etc. Trace of other material layer to south (ca. 2m thick @ 1.0m)	
2.1 - 3.1	Natural ground consisting soft - firm light grey clayey, sandy SILT with organics, roots, etc.	
3.1 - 3.4	Natural ground consisting soft dark brown silty CLAY with high organic content (peaty)	
3.4 - 4.1	Natural ground consisting soft - firm grey/brown clayey silty SAND with gravels	

**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** slight water entry @ ca. 2.1m & again @ 4.0m - may be trapped/perched

**Odour:**

**Installation:**

**Water Level:**

**Development:**

**No. of Photos 2**

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**Trial Pit Log**

TP No.: 66

Site Location: Whitestown  
 Project No.: 03.116  
 Date: 17/12/2003  
 Geologist: CW/ES  
 Company: ERM  
 Excavation Plant: CAT 322B  
 Ground Surface Elevation (m): 141.09  
 Total Depth (m): 4.0

Depth: (m)	Material encountered:
0 - 0.2	Topsoil, grass, rootlets
0.2 - 1.5	Madeground consisting loose light brown clayey silty very fine SAND with some gravels
1.5 - 4.0	Natural ground consisting soft dark grey clayey sandy SILT with sub-angular gravels, etc. (layered deposits)
EoH: 4.0m	

**\*NOTE:** All descriptions are based on field observations  
 The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

Water Entry: None  
 Odour: None  
 Installation: -  
 Water Level: -  
 Development: -  
 No. of Photos 2

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## Tara Pit Log

**TP No.: 67**

<b>Site Location:</b>	Whitestown	<b>Company:</b>	ERM/L
<b>Project No.:</b>	03.116	<b>Geologist:</b>	CW/ES
<b>Date:</b>	19/12/2003	<b>Total Depth (m):</b>	3.5
<b>Excavation Plant:</b>	CAT 322B	<b>Ground Surface Elevation (mOD):</b>	143.40

Depth: (m)	Material encountered:
0 - 1.0	Madeground cap consisting loose light brown silty clayey very fine SAND, with some gravels
1.0 - 3.5	Natural ground consisting loose light grey clayey very fine SAND
EoH: 3.5m	

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**\*NOTE:** All descriptions are based on field observations  
The % breakdown of material types is considered to be on a Volumetric Basis and is purely indicative.

**Water Entry:** None  
**Odour:** None  
**Installation:** -  
**Water Level:** -  
**Development:** -  
**No. of Photos:** 2

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