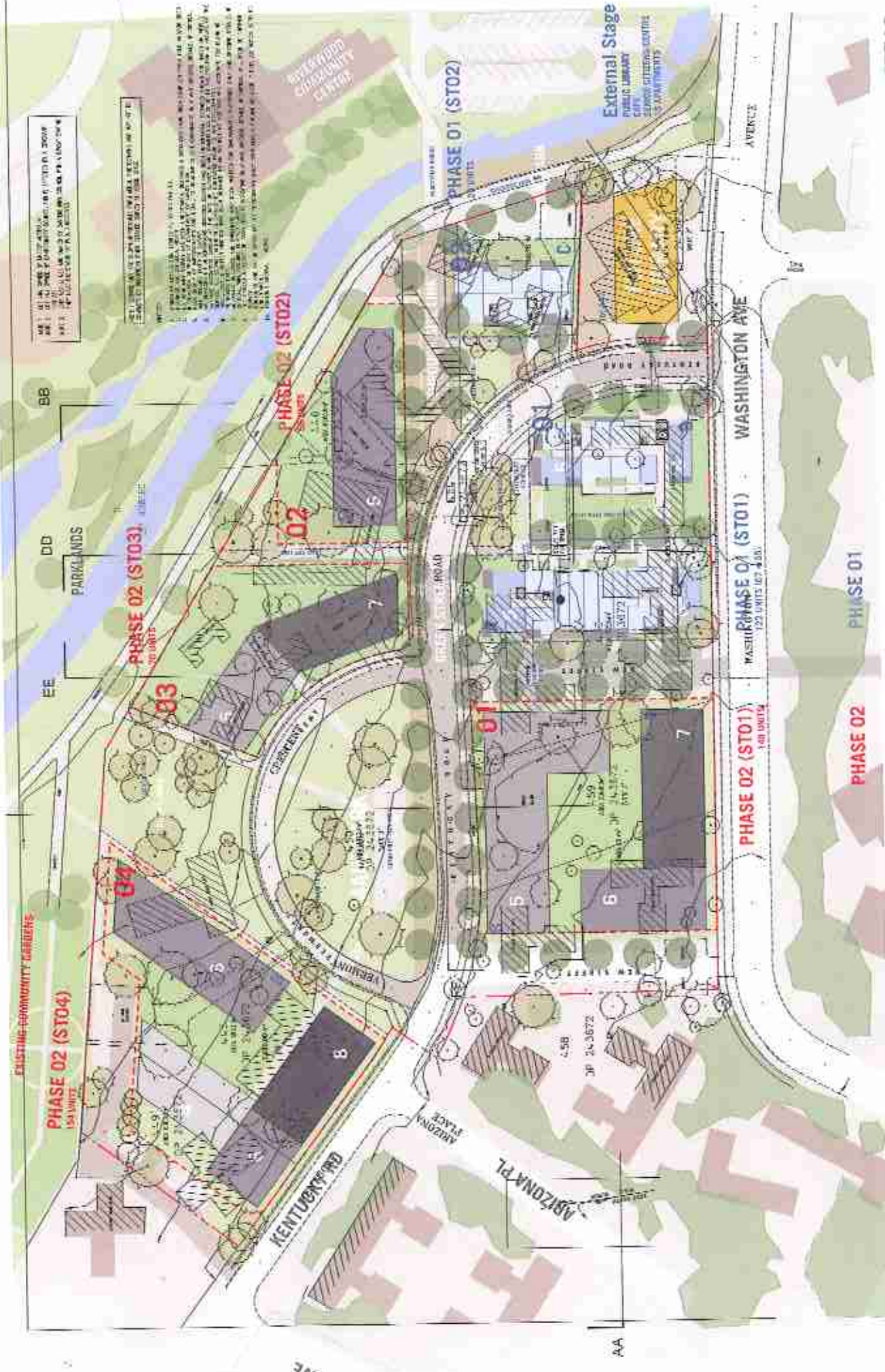


**Appendix A**  
**Draft Concept Plan**

# RIVERWOOD NORTH



**Appendix B**  
**Testpit Logs**



**Test Pit No.: TP11**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.9 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

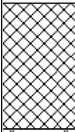

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 23/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (4 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of shale pieces, rootlets and few ACM fragments.	0.1-0.2		
		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.			
1.0		<b>End of Hole at 0.9 m bgs</b>			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP14**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.2 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 23/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (381 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of ash/slag, numerous ACM fragments, brick pieces and tile fragments.	0.1-0.2		
1.0		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.			
		<b>End of Hole at 1.2 m bgs</b>			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		





**Test Pit No.: TP17**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.5 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 23/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (991 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments, tiles and ACM fragments.	0.1-0.2		
1.0		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.			
2.0		<b>End of Hole at 1.5 m bgs</b>			
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP2**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.2 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 23/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (181 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of some ash/slag, tiles, concrete ACM fragments and rootlets.	0.3-0.4		
1.0		<b>Silty Clay</b> Yellow orange, medium plasticity, wet and heterogeneous.			
		<b>End of Hole at 1.2 m bgs</b>			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP21**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.1 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 24/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (58 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of tiles, rootlets and ACM fragments.	0.1-0.2 QC1/1A		
1.0		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.	0.7-0.8		
		End of Hole at 1.1 m bgs			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		





**Test Pit No.: TP28**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.8 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

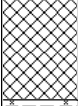

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 24/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (74 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2 QC2/2A		
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp and heterogeneous.	0.4-0.5		
1.0		<b>End of Hole at 0.8 m bgs</b>			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP33**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.9 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 24/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of roadbase gravels, ash/slag, tiles and ceramic pieces	0.1-0.2		
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp and heterogeneous.			
1.0		<b>End of Hole at 0.9 m bgs</b>			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP8**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.8 m

**Operator and Co.:** Rory of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 23/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (41 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and few ACM fragments.	0.3-0.4		
		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.			
1.0		End of Hole at 0.8 m bgs			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP86**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 30/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE		
Depth	Visual	Description	Number	Condition	Observations
0.0		Ground Surface			ACM observed (72 g)
		<b>FILL</b> Silty Clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets, glass pieces and shale pieces.	0.1-0.2		
		<b>Silty Clay</b> Yellow orange, medium plasticity, damp and heterogeneous.	0.5-0.6		
1.0		End of Hole at 1.0 m bgs			
2.0					
3.0					
4.0					

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP37**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.1 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (24 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and shale pieces	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.	0.8-0.9			
		<b>End Of Hole at 1.1 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP41**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.2 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (7568 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with numerous ACM fragments and shale pieces	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.				
		End Of Hole at 1.2 m bgs				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		





**Test Pit No.: TP43**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.2 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (125 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.	0.8-0.9			
		End Of Hole at 1.2 m bgs				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP46**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.9 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (152 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.	0.55-0.65			
1.0		End Of Hole at 0.9 m bgs				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP47**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.1 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

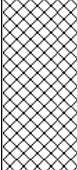
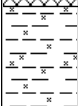
**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (99 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, concrete pieces and ACM fragments	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.				
		<b>End Of Hole at 1.1 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP51**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.1 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

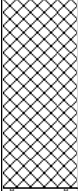

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (11 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of a few concrete pieces, rootlets and a few ACM fragment	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.				
		<b>End Of Hole at 1.1 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP52**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.1 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

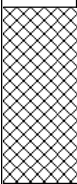

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				
		<b>FILL</b> Silty clay, brown, low plasticity heterogeneous with inclusions of shale pieces, roadbase gravels and rootlets	0.1-0.2			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.	0.7-0.8			
		<b>End Of Hole at 1.1 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP58**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.2 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

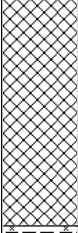

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 25/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (976 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and glass pieces	0.1-0.2 QC3/3A			
1.0		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogenous.				
		<b>End Of Hole at 1.2 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		





**Test Pit No.: TP61**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.9 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

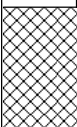

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 26/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (115)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlets	0.1-0.2			
		<b>Silty Clay</b> Yellow brown, medium plasticity.				
1.0		<b>End Of Hole at 0.9 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP66**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

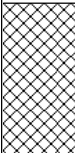

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 26/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (14 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlets	0.1-0.3			
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogeneous				
1.0		<b>End Of Hole at 1.0 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP69**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

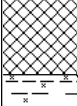
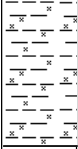
**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 26/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (60 g)
		<b>FILL</b> Silty clay, brown, heterogeneous, damp, firm, low plasticity with inclusions of ACM fragments glass and concrete	0.1-0.2			
		<b>Silty Clay</b> Mottled orange brown grey, heterogeneous, damp, moderate plasticity with inclusions of mature roots				
1.0		<b>End Of Hole at 1.0 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP72**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

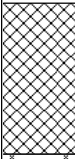

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 26/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (67 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets and ACM fragments	0.1-0.2			
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogeneous	0.6-0.7			
1.0		<b>End Of Hole at 1.0 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP74**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

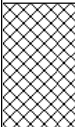

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 26/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (54 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of a few brick fragments and ACM fragments	0.1-0.2			
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogeneous				
1.0		<b>End Of Hole at 1.0 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP77**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.8 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

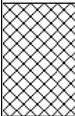

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 30/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (64 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments and ACM fragments	0.1-0.2 QC4/4A			
		<b>Silty Clay</b> Yellow brown				
1.0		<b>End Of Hole at 0.8 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		





**Test Pit No.: TP79**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 1.0 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

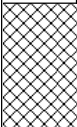

**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 30/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (686 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments and rootlet	0.1-0.2			
		<b>Silty Clay</b> Yellow brown, medium plasticity, damp, heterogeneous	0.5-0.6			
1.0		<b>End Of Hole at 1.0 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		



**Test Pit No.: TP84**

**Location:** Riverwood

**Project:** Riverwood North Renewal

**Total Hole Depth:** 0.9 m

**Operator and Co.:** Mike of Ken Cole

**Project No.:** 41131

**Eastings:** -

**Excavation Method:** Excavator

**Client:** MProjects

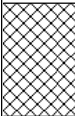
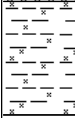
**Northings:** -

**Log By:** Tim Davis

**Project Manager:** Sumi Dorairaj

**Date:** 30/11/2010

**Excavation Width:** 450 mm

SUBSURFACE PROFILE			SAMPLE			
Depth	Visual	Description	Number	Condition	PID (ppm)	Observations
0.0		Ground Surface				ACM observed (59 g)
		<b>FILL</b> Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets and glass fragments	0.1-0.2 QC5/5A			
		<b>Silty Clay</b> Orange yellow, medium plasticity, damp, heterogeneous				
1.0		<b>End Of Hole at 0.9 m bgs</b>				
2.0						
3.0						
4.0						

Sample Method	Sample Condition		
<b>HA - Hand Auger</b> <b>SFA - Solid Flight Auger</b> <b>HFA - Hollow Flight Auger</b> <b>PT - Push Tubing</b>	<b>U - undisturbed tube sample</b> <b>D - disturbed sample</b> <b>CS - core sample</b>		

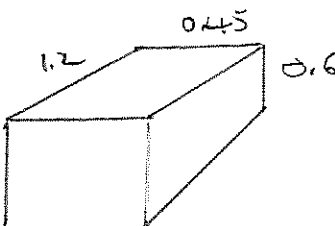
## **Appendix C**

### **Field Testpit Logs**

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.0m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method \_\_\_\_\_  
 Driller Rory Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

87 grams

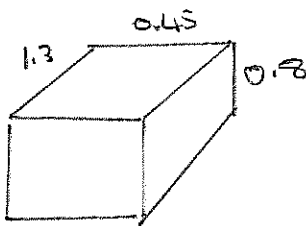
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
0.1					Grass cover
0.2		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, glass fragments, Ash fragments
0.6					Silty clay, yellow brown, low-medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour

Project Riverwood North Renewal Project No. 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan cob Method Excavator  
 Driller Rory Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

48 grams

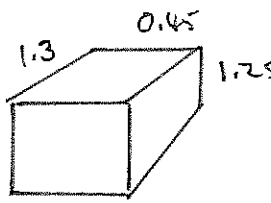
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		Q1-0.2			fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments, rootlets, ACM fragments
0.8		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.2					END OF INVESTIGATION 1.2m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary
FILL	clayey	red	dry	very soft	very loose	and (35-50%)
CLAY	silty	yellow	damp	soft	loose	some (20-35%)
SILT	sandy	white	moist	firm	medium dense	little (10-20%)
SAND	gravelly	black	wet	stiff	dense	trace (0-10%)
GRAVEL	organic	brown	saturated	very stiff	very dense	Contamination
TOPSOIL		grey		hard		odour
PEAT		mottled				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method Excavator  
 Driller Ray Log By T.Davis Date 24/1/10 Permit # \_\_\_\_\_

## COMMENTS

27 grams

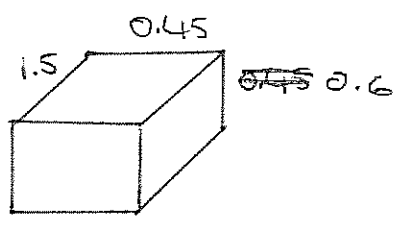
DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION			
		1.25	0.1-0.2			GRASS COVER			
						Fill: Silty Clay, brown, low plastic, damp, heterogeneous with inclusions of rootlets, few shale pieces and plastic pieces, few ACM fragments			
						Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous			
		1.6	NS						
						END OF INVESTIGATION 1.6m			
									
Description		Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.0m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Perry Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

6 grams

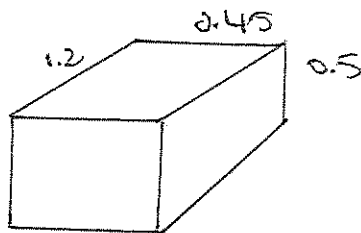
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, la plasticity, damp, heterogeneous with inclusions of rootlets, few shale and glass pieces, one ACM fragment
0.6					
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)
						and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination
						odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method Excavator  
 Driller Roddy Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

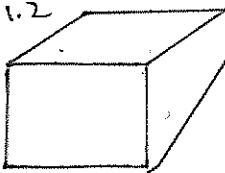
S2 grains

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty, clay, brown, b plasticity, damp, heterogeneous with inclusions of ACM fragments, shale pieces
	0.5				
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	0.9				END OF INVESTIGATION 0.9m
					

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 0.9m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cde Method \_\_\_\_\_  
 Driller ROBY Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

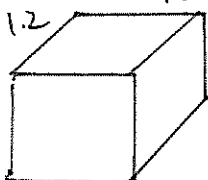
99 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusion of rootlets, few ACM fragments					
0.5		0.5-0.6			Silty clay, yellow brown, medium, plasticity, damp, heterogeneous					
0.9					END OF INVESTIGATION 0.9 					
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller Roan Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

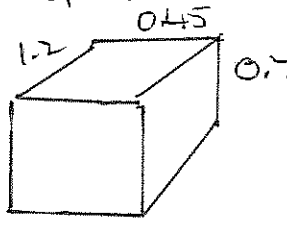
116 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, plastic, ACM fragments					
	0.7									
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
					END OF INVESTIGATION					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cde Method \_\_\_\_\_  
 Driller Rory Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

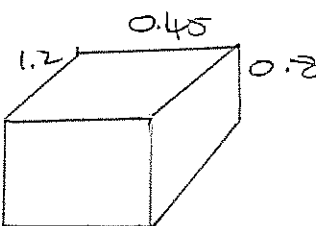
1164 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
					GRASS COVER				
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions rootlets, large quantity on ACM fragments				
0.7		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous				
1.1					END OF INVESTIGATION 1.1m				
									
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Roan Log By T. Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

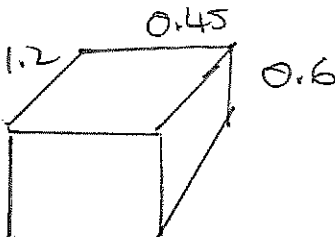
1055 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, numerous ACM fragments					
0.9		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.2					END OF INVESTIGATION 1.2m 					
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan Cole Method EXCAVATOR  
 Driller ROBY Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

288. grams

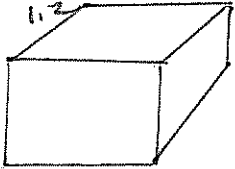
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, numerous ACM fragments,
0.6					
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					
					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller ROBY Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

COMMENTS

13 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions rootlets few ACN fragments
	Q6	0.6-0.7			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	1.0				END OF INVESTIGATION 1.0m
					

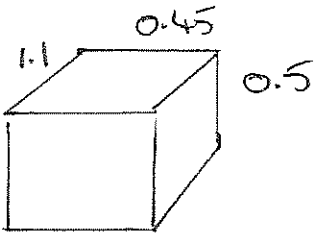
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan cde Method \_\_\_\_\_  
 Driller RAY Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

23 grams

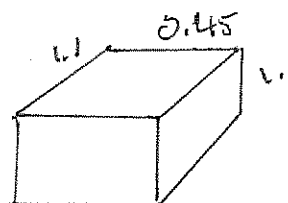
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			All: silty clay, dark brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
	0.5				
		U3			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous
	0.9				END of INVESTIGATION 0.9m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Rory Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

727 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill; silty clay, dark brown, low plasticity, damp, heterogeneous with inclusions of rotter, brick + concrete pieces. ACM fragments					
	1.1	1.1-1.2			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	1.4				END OF INVESTIGATION 1.4m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				

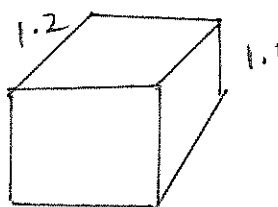


# Drilling Log

Borehole # TP35

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method Excavator  
 Driller Roby Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

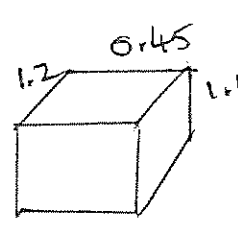
COMMENTS  
1012 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
	1.1				GRASS COVER					
					Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments					
	1.4				silty clay, yellow brown, medium plasticity, damp, heterogeneous					
					END OF INVESTIGATION 1.4m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kew Cole Method \_\_\_\_\_  
 Driller Roay Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

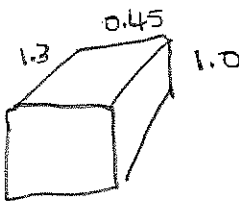
249 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			All: silty clay, dark brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments shale pieces					
	1.1									
		N5			Silty clay, yellow brown, med plasticity, damp, heterogeneous					
	1.5									
					END OF INVESTIGATION 1.5m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller MICK Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

279 grams

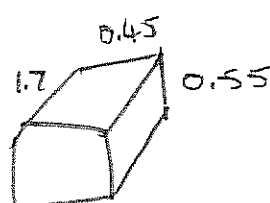
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS cover
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
1.0		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.5					END OF INVESTIGATION 1.5m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary
FILL	clayey	red	homogenous	dry	very soft	very loose
CLAY	silty	yellow	heterogeneous	damp	soft	loose
SILT	sandy	white	stratified	moist	firm	medium dense
SAND	gravelly	black	laminated	wet	stiff	dense
GRAVEL	organic	brown	lens	saturated	very stiff	very dense
TOPSOIL		grey	root holes		hard	
PEAT		mottled	occasional			
						poorly sorted (well graded)
						well sorted (poorly graded)
						and (35-50%)
						some (20-35%)
						little (10-20%)
						trace (0-10%)
						Contamination
						odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date \_\_\_\_\_ Permit # \_\_\_\_\_

## COMMENTS

790  
 800 +  
 738  
 2.328 kg

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill; Silty clay, brown, low plasticity, damp, heterogeneous, with inclusions of numerous ACM fragments
	0.55				
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	1.0				
					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

# Drilling Log

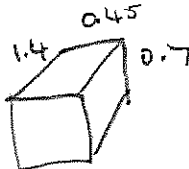
 Borehole # Tp40

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.1m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan Cole Method Excavator  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

 COMMENTS  
1018  
978 +  
800  


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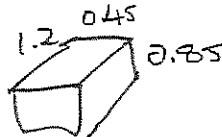
2796 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
		0.7	0.1-0.2			GRASS COVER				
						Fill: silty clay, brown, low plasticity, damp, heterogeneous, with inclusions of rubble & large quantity of ACM fragments				
			NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous				
		1.1				END OF INVESTIGATION 1.1m				
										
Description		Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller Nick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

195 grams

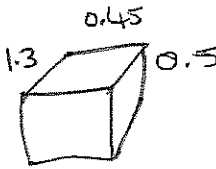
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments					
	0.85									
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	1.2				END OF INVESTIGATION 1.2m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

410 grams

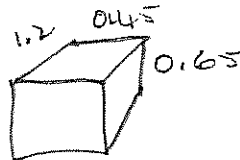
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		01-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
0.5					
		23			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
0.9					
					END OF INVESTIGATION 0.9m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

COMMENTS

29 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
		0.65	0.1-0.2			GRASS COVER				
						Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, one ACM fragment				
			NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous				
		1.2				END OF INVESTIGATION 1.2m				
										
Description		Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

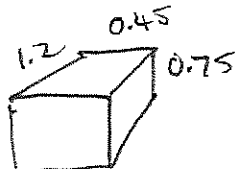
27 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
		0.75  <				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

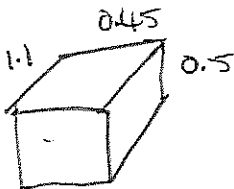
66 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1 - 0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets					
	0.75									
		NS			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous					
	1.1									
					END of INVESTIGATION 1.1					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

60 grams

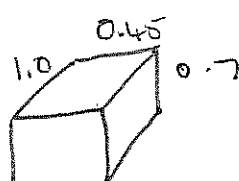
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets, tiles, glass
0.5		NS			silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL	clayey	red	homogenous	dry	very soft	very loose	and (35-50%)
CLAY	silty	yellow	heterogeneous	damp	soft	loose	some (20-35%)
SILT	sandy	white	stratified	moist	firm	medium dense	little (10-20%)
SAND	gravelly	black	laminated	wet	stiff	dense	trace (0-10%)
GRAVEL	brown	lens	root holes	saturated	very stiff	very dense	Contamination
TOPSOIL	grey	occasional					odour
PEAT	mottled						

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Keneco Method \_\_\_\_\_  
 Driller Mick Log By T. Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

44 grams

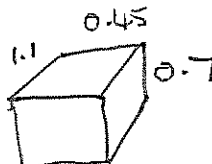
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, low plasticity, damp, heterogeneous with inclusions of shale pieces, few acm fragments
0.7					
		N2			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.1					END OF INVESTIGATION 1.1m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary
FILL	clayey	red	dry	very soft	very loose	end (35-50%)
CLAY	silty	yellow	damp	soft	loose	some (20-35%)
SILT	sandy	white	moist	firm	medium dense	little (10-20%)
SAND	gravelly	black	wet	stiff	dense	trace (0-10%)
GRAVEL	organic	brown	saturated	very stiff	very dense	Contamination
TOPSOIL		grey		hard		odour
PEAT		mottled				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.1m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

COMMENTS

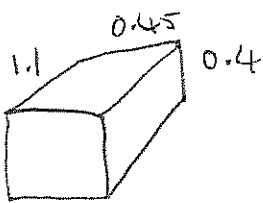
12 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		Q1-0.2			Fill: silty clay, brown, br plasticity, damp, heterogeneous with inclusions few ACM fragments, plastic, tile, rootlets					
0.7		NS			silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.1					END OF INVESTIGATION 1.1m					
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

9 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1 - 0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with rootlets shale pieces, one ACM fragment
0.4					Silty clay, yellow brown, medium plasticity, damp, heterogeneous Refusal on concrete slab 0.4
					END OF INVESTIGATION
					

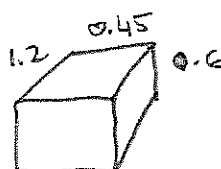
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

281 grams

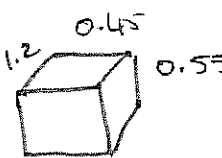
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill; silty clay, brown, low plast, damp, heterogeneous with inclusion of ACM fragments, rootlets
	0.6				
		0.6-0.7			silty clay, yellow brown, medium plasticity, damp, heterogeneous
	1.0				
					END OF INVESTIGATION <del>0.6</del> 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method EXCAVATOR  
 Driller MICK Log By T.Davis Date 26/1/10 Permit # \_\_\_\_\_

## COMMENTS

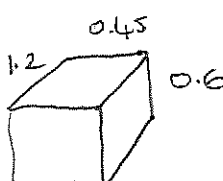
60 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2			GRASS COVER					
0.55		0.55-0.65			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, few ACM fragments					
0.9					Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
					END of INVESTIGATION 0.9m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Mick Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

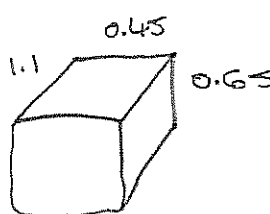
63 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2			GRASS COVER					
	0.6	NS			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with indubious of ACM fragments, glass, rattlets					
	1.0m				Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
					END OF INVESTIGATION 1.0m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/18 Permit # \_\_\_\_\_

## COMMENTS

147 grams

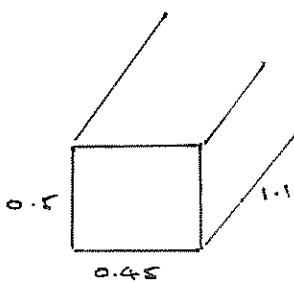
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity damp, heterogeneous with inclusions of ACM fragments, rootlets
	0.65				
		NS			Silty CLAY, yellow brown, medium plasticity, damp
	1.1				
					END OF INVESTIGATION 1.1m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 0.8 m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26.11.10 Permit # \_\_\_\_\_

## COMMENTS

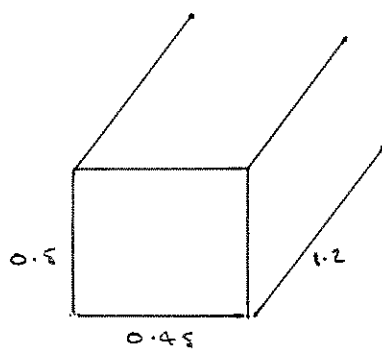
323 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION			
		0.0				Grass 0.0			
		0.1 - 0.2				All: silty clay brown hetero damp firm low plasticity with inclusions of ACM & terracotta pipe 0.5			
		NS				silty clay orange brown hetero damp medium density 0.8			
		0.8				END @ 0.8 m			
									
Description		Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
and (35-50%) some (20-35%) little (10-20%) trace (0-10%)									
Contamination									
odour									

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 0.8 m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26.11.10 Permit # \_\_\_\_\_

COMMENTS

939 gram

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
0.0					Grass → 0.0
0.2 - 0.3					Fill silty clay brown hetero damp firm low to moderate plasticity with inclusions of ACM & shale gravels & tile fragments
0.5					→ 0.5
0.6 - 0.7					silty clay orange brown hetero damp moderate plasticity
0.8					→ 0.8
					CCH @ 0.8 m 

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

Project Riverwood North Renewal Project No 41131

## COMMENTS

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill	Co	Method
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Driller \_\_\_\_\_ Log By T.Davis Date 26.11.10 Permit # \_\_\_\_\_

29 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					Gravel
0.0					0.0
0.1 - 0.2					Fill: silty clay brown hetero damp to damp firm low plasticity with inclusions of ACN glass & shale gravels
0.3					0.3
0.4 - 0.5		NS			silty clay orange brown hetero damp firm low to moderate plasticity
0.6					0.6
0.7 - 0.8					GM @ 0.6 m
0.9					
1.0					
1.1					
1.2					
1.3					
1.4					
1.5					
1.6					
1.7					
1.8					
1.9					
2.0					
2.1					
2.2					
2.3					
2.4					
2.5					
2.6					
2.7					
2.8					
2.9					
3.0					
3.1					
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3.7					
3.8					
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4.3					
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4.6					
4.7					
4.8					
4.9					
5.0					
5.1					
5.2					
5.3					
5.4					
5.5					
5.6					
5.7					
5.8					
5.9					
6.0					
6.1					
6.2					
6.3					
6.4					
6.5					
6.6					
6.7					
6.8					
6.9					
7.0					
7.1					
7.2					
7.3					
7.4					
7.5					
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7.7					
7.8					
7.9					
8.0					
8.1					
8.2					
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8.4					
8.5					
8.6					
8.7					
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9.0					
9.1					
9.2					
9.3					
9.4					
9.5					
9.6					
9.7					

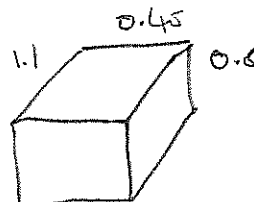




Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method Excavator  
 Driller Mick Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

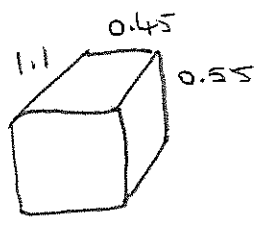
609 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION						
		0.6	0.1 - 0.2			GRASS COVER						
						Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous						
						END OF INVESTIGATION 1.0						
		1.0	NS									
Description		Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary			
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT		clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard		non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
											Contamination	
											odour	

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/19 Permit # \_\_\_\_\_

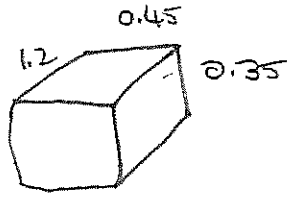
## COMMENTS

71 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill; Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of Acer fragments, rootlets					
	0.55									
		NS			Silty clay, yellow orange, medium plasticity, damp, heterogeneous					
	1.0									
					END OF INVESTIGATION 1.0					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

COMMENTS  
195 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GrASS COVER
		0.1-0.2			Fill: silty clay, <sup>brown</sup> yellow orange, low plasticity, damp, with inclusions of ACM fragments
	0.35				
		0.4-0.5			Silty clay, yellow orange, medium plasticity, damp, heterogeneous
	0.4				
					END OF INVESTIGATION 0.4
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

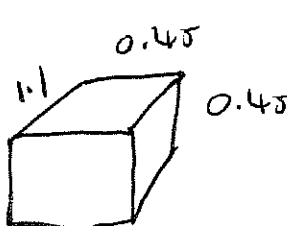


Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method Excavator  
 Driller \_\_\_\_\_ Log By T.Davis Date 20/11/10 Permit # \_\_\_\_\_

## COMMENTS

3 grams

P

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plast, damp, heterogeneous with inclusions of rootlets, ACM fragments (small)					
	CL45				Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										



**JBS**  
ENVIRONMENTAL

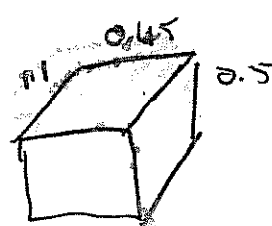
# Drilling Log

Borehole # TP81

Project Riverwood North Renewal Project No 41131  
Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
Driller \_\_\_\_\_ Log By T. Davis Date 20/11/10 Permit # \_\_\_\_\_

COMMENTS

21 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2			GRASS COVER					
					Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of fern fragments, rootlets					
	0.5				Silty clay, yellow brown, medium plasticity, damp heterogeneous					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										



**JBS**  
ENVIRONMENTAL

# Drilling Log

Borehole # TP92

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 30/11/10 Permit # \_\_\_\_\_

COMMENTS

9 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
		0.1-0.2			GRASS COVER				
	0.5	0.5-0.6			<p>fill: silty clay, brown, low plasticity, damp, heterogeneous, with inclusions of rootlets, few ACM fragments</p> <p>Silty clay, yellow brown, medium plasticity, damp, heterogeneous</p> <p>END OF INVESTIGATION 1.0m</p>				
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour



**JBS**  
ENVIRONMENTAL

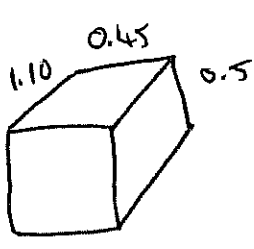
# Drilling Log

Borehole # TP83

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 30/11/10 Permit # \_\_\_\_\_

COMMENTS

435 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusion of small amounts of ash/slag, ACM fragments, shale pieces					
	0.5	NS			Silty clay, orange yellow, medium plasticity, damp, heterogeneity					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



Borehole # TP85

Project Riverwood North Renewal Project No 41131

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

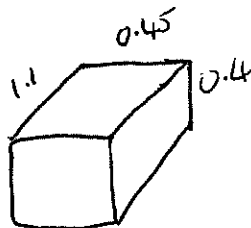
Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill Co. \_\_\_\_\_ Method \_\_\_\_\_

Driller \_\_\_\_\_ Log By T. Davis Date 30/11/10 Permit # \_\_\_\_\_

COMMENTS

107 grams

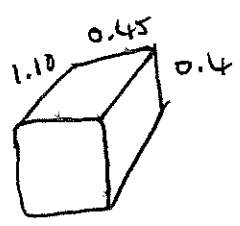
DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
			0.1-0.2			GRASS cover
						Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
			2S			Silty clay, yellow orange, medium plasticity, damp, heterogeneous
						

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination	
									odour	

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 30/11/10 Permit # \_\_\_\_\_

COMMENTS

26 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
0.4					
		NS			Silty CLAY, yellow brown-orange, medium plasticity, damp, heterogeneous
0.9					END OF INVESTIGATION 0.9m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity  very loose loose medium dense dense very dense  boulders cobbles coarse gravel fine gravel coarse sand  poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

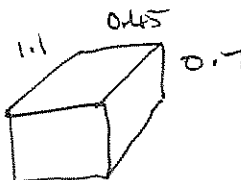
# Drilling Log

 Borehole # TP50

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cde Method \_\_\_\_\_  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

COMMENTS

NO ALM

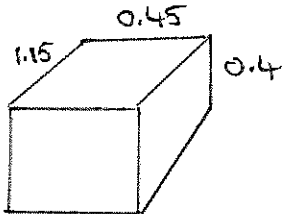
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets					
0.7		NS			Silty clay, yellow brown, medium, plasticity, damp, heterogeneous					
					END OF INVESTIGATION 1.0m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

# Drilling Log

 Borehole # TP9

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

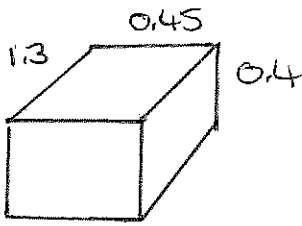
COMMENTS

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, shale pieces
0.4		0.4-0.5			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
0.7					END OF INVESTIGATION 0.7m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller ROBY Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

COMMENTS

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets
0.4		0.4-0.5			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous
0.7					END INVESTIGATION 0.7m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour



# Drilling Log

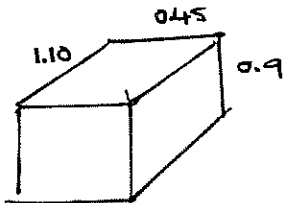
MProject Reports / R02 attachment

Borehole # TP2

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller Perry Log By T. Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

181 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.3-0.4			GRASS COVER					
	0.9				Fill: Silty clay, brown, low plasticity damp, heterogeneous with inclusion of some ash/slag, tiles + concrete pieces, ACM fragments from 3cm <sup>2</sup> - 10cm <sup>2</sup> , rootlets					
	1.2m				Silty clay, yellow orange, medium plasticity, wet, heterogeneous					
					END OF INVESTIGATION 1.2m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

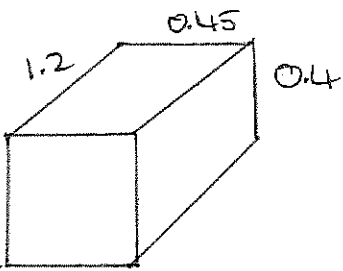
# Drilling Log

 Borehole # TP8

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 0.8m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller RORY Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

41 gms

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
					Fill: silty clay, brown, low plastic, damp, heterogeneous with inclusions of rootlets, few ACM fragments
0.4					
					Silty CLAY, yellow brown, med plasticity, damp, heterogeneous
0.8					
					END OF INVESTIGATION 0.8m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary
FILL	clayey	red	dry	very soft	very loose	and (35-50%)
CLAY	silty	yellow	damp	soft	loose	some (20-35%)
SILT	sandy	white	moist	firm	medium dense	little (10-20%)
SAND	gravelly	black	wet	stiff	dense	trace (0-10%)
GRAVEL	organic	brown	saturated	very stiff	very dense	Contamination
TOPSOIL		grey		hard		odour
PEAT	mottled	laminated				
		root holes				
		occasional				



# Drilling Log

Borehole # TP11

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Co Method Excavator  
 Driller Boa Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

4 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of shale pieces, rootlets, few ACM fragments.
0.5					
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
0.9					END OF INVESTIGATION 0.9m

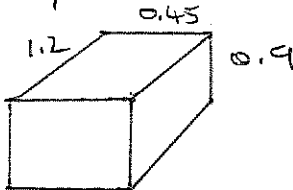
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary		
FILL	clayey	red	homogenous	dry	very soft	very loose	poorly sorted (well graded)	and (35-50%)
CLAY	silty	yellow	heterogeneous	damp	soft	loose	(well graded)	some (20-35%)
SILT	sandy	white	stratified	moist	firm	medium dense	well sorted	little (10-20%)
SAND	gravelly	black	laminated	wet	stiff	dense	(poorly graded)	trace (0-10%)
GRAVEL	organic	brown	lens	saturated	very stiff	very dense		Contamination
TOPSOIL		grey	root holes		hard			odour
PEAT	mottled	occasional						



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.2m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan cole Method \_\_\_\_\_  
 Driller Roay Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

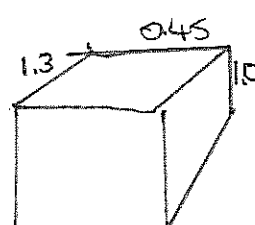
381 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
			0.1-0.2			GRASS COVER				
0.9						Fill: silty clay, brown, bw plasticity, damp, heterogeneous with inclusions of ash/slag, numerous PCM fragments, brick press, tile fragments				
						Silty clay, yellow brown, medium plasticity, damp, heterogeneous				
1.2			N3			END OF INVESTIGATION 1.2m				
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel	Secondary			
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cde Method \_\_\_\_\_  
 Driller Ray Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

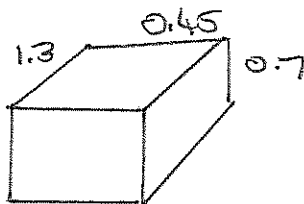
991 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments, tiles, ACM fragments. #					
1.0		NS			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous					
1.5					END OF INVESTIGATION 1.5m 					
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Rory Log By T.Davis Date 24/11/10 Permit # \_\_\_\_\_

## COMMENTS

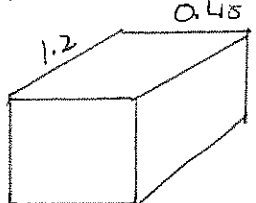
58 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2 ↑ QC1/1A			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of tiles, rootlets, ACM fragments					
0.7		0.7-0.9			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous					
1.1					END OF INVESTIGATION 1.1m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller ROBY Log By T. Davis Date 24/1/10 Permit # \_\_\_\_\_

## COMMENTS

74 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2 ↑ QC2/2A			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets + ACM fragments					
0.4		0.4-0.5			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous					
					END OF INVESTIGATION					
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Borehole # TD33

Project Riverwood North Renewal Project No 41131

## COMMENTS

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill Co Ken Coe Method EXCAVATOR

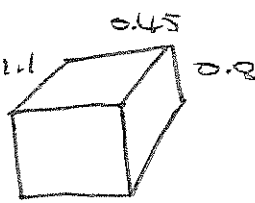
Driller ROBY Log By T.Davis Date 24/11/10 Permit #           

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions roadbase gravel ash/slag, tile + ceramic pieces
0.6					Silty clay, yellow brown, med plasticity, damp, heterogeneous
		NS			
0.9					END OF INVESTIGATION 0.9m

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

~~11/11/10~~  
~~24~~ grams  
 24

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					CRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of PCM fragments, rootlets, shale pieces					
	0.8	0.8-0.9			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	1.1				END OF INVESTIGATION 1.1m 					
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)  Contamination  odour



# Drilling Log

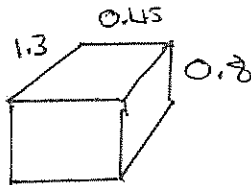
Borehole # TP41

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

1355  
1175  
1058  
917  
1171  
980

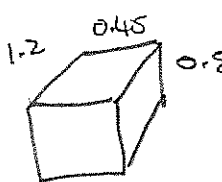
+

					912 <hr/> 7.568 kg					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2			GRASS COVER					
					fill: silty clay, brown, low plasticity, damp, heterogeneous with numerous ACM fragments, shale pieces ↓ up to 4kg					
0.8					Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
		N3								
1.2					END OF INVESTIGATION 1.2 m					
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)	
									Contamination	
									odour	

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method excavator  
 Driller MICK Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

 Elect  
 125 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill; silty clay, brown, low plasticity; damp, heterogeneous with inclusions of rootlets Acm fragments					
	0.8	0.8-0.9			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	1.2m				END of INVESTIGATION 1.2m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



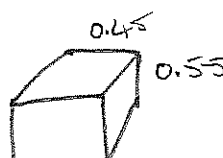


# Drilling Log

Borehole # TP46

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method Excavator  
 Driller Mick Log By T.Davis Date 25/11/16 Permit # \_\_\_\_\_

COMMENTS  
152 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: Silty clay, brown, low plasticity damp, heterogeneous with inclusions of rootlets, ACM fragments					
	0.55									
		0.55-0.65			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	0.9									
					END OF INVESTIGATION 0.9m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



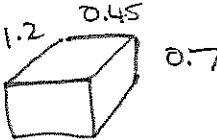
# Drilling Log

Borehole # TP47

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cde Method EXCAVATOR  
 Driller MICK Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

## COMMENTS

99 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rocklets, concrete pieces, ACM fragments					
0.7		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.1					END OF INVESTIGATION 1.1m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



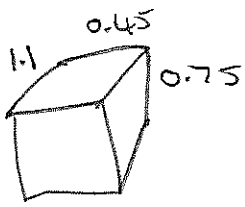
# Drilling Log

Borehole # TP51

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.1m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Mick Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

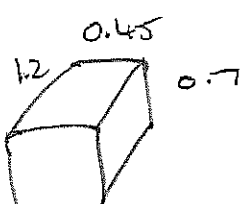
## COMMENTS

11 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of few concrete pieces, rootlets, few ACM fragments					
	0.75									
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
	1.1m									
					END OF INVESTIGATION 1.1m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cde Method Excavator  
 Driller Mike Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

COMMENTS

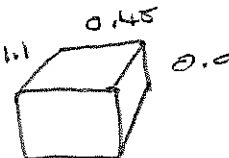
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of shale pieces, roadbase gravel, rootlets
0.7					
		0.7-0.9			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.1					End of investigation 1.1m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL	clayey	red	homogenous	dry	very soft	non-plastic	very loose	boulders	poorly sorted	and (35-50%)
CLAY	silty	yellow	heterogeneous	damp	soft	low plasticity	loose	cobbles	(well graded)	some (20-35%)
SILT	sandy	white	stratified	moist	firm	mod plasticity	medium dense	coarse gravel	well sorted	little (10-20%)
SAND	gravelly	black	laminated	wet	stiff	high plasticity	dense	fine gravel	(poorly graded)	trace (0-10%)
GRAVEL	organic	brown	lens	saturated	very stiff		very dense	coarse sand		Contamination
TOPSOIL		grey	root holes		hard					odour
PEAT		mottled	occasional							

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date \_\_\_\_\_ Permit # \_\_\_\_\_

COMMENTS

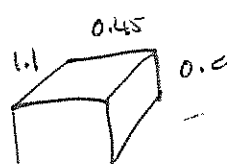
976 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2 ↑ QC3/3A			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of PCM fragments, rootlets, glass pieces					
0.9										
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.2										
					END OF INVESTIGATION 1.2m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method EXCAVATOR  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

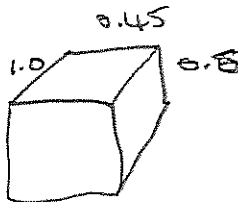
115 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets					
	0.5									
		NS			Silty clay, yellow brown, medium plasticity					
	0.9									
					END OF INVESTIGATION 0.9m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

## COMMENTS

14 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.3			Fill: silty clay, brown, low plast, damp, heterogeneous with inclusions of ACM fragments, rootlets
0.5		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill	Co	Method
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Driller \_\_\_\_\_ Log By T.Davis Date 26.11.10 Permit # \_\_\_\_\_

## COMMENTS

60 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PTD (PPM)	USCS CLASS	DESCRIPTION
0.0						Grass
0.1 - 0.2						Fill: silty clay brown hetero damp firm low plasticity with inclusions of ACM, glass & concrete
0.3						silty clay mottled orange brown grey hetero damp moderate plasticity with inclusions of mature roots
1.0						20M @ 1.0 m

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour





**JBS**  
ENVIRONMENTAL

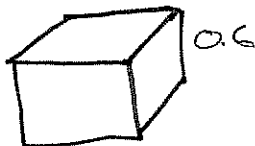
# Drilling Log

Borehole # TP72

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method Excavator  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

COMMENTS

67 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments
0.6		0.6-0.7			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				



**JBS**  
ENVIRONMENTAL

# Drilling Log

Borehole # TP74

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

COMMENTS

54 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of few brick fragments, ACM fragments
0.5		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)
									and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
									Contamination
									odour

Borehole # TP77

Project Riverwood North Renewal Project No 41131

## COMMENTS

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

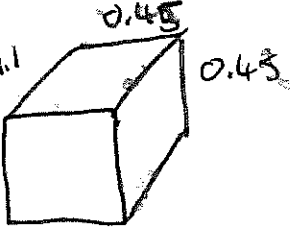
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Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill Co \_\_\_\_\_ Method \_\_\_\_\_

Driller \_\_\_\_\_ Log By T. Davis Date 30/11/10 Permit # \_\_\_\_\_

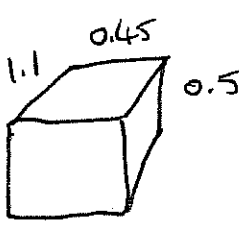
64 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION				
			0.1-0.2 ↑ QC4/UA			GRASS COVER  Fill: silty clay, brown, lo peaty, damp, heterogeneous with nodules of glass fragments, Acn fragments  Silty clay & yellow brown  				
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

Project Riverwood North Renewal Project No. 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 30/11/10 Permit # \_\_\_\_\_

## COMMENTS

686 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PTD (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusion of ACM fragments, rootlets
		0.5			
		0.5-0.6			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
		1.0m			END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

Borehole # TP84

Project Riverwood North Renewal Project No 41131

## COMMENTS

Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_

59 grams

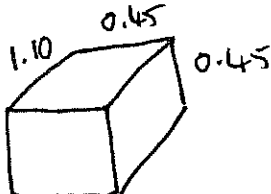
Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_

Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_

Drill	Co	Method
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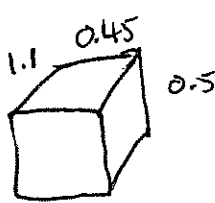
Driller \_\_\_\_\_ Log By T. Davis Date 30/11/10 Permit # \_\_\_\_\_

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
		0.1-0.2 ↑ QCS/SA			GRASS cover  Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets, glass fragments					
	0.45	MS			Silty clay, orange yellow, medium plasticity, damp, heterogeneous  					
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method EXCAVATOR  
 Driller \_\_\_\_\_ Log By T.Davis Date 30/11/10 Permit # \_\_\_\_\_

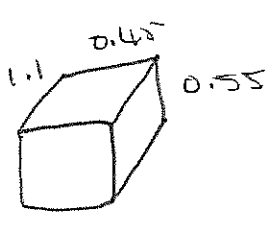
COMMENTS

72 grams

DEPTH (METRES)		WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
0.5		0.1-0.2	0.5-0.6			GRASS COVER					
1.0						Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of ACM fragments, rootlets, glass pieces, Shale pieces					
						Silty clay, yellow orange, medium plasticity, damp, heterogeneous					
						END of INVESTIGATION 1.0m					
											
Description		Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT		clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
											Contamination
											odour

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Mike Log By T.Davis Date 25/11/10 Permit # \_\_\_\_\_

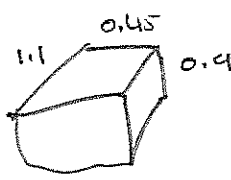
COMMENTS

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, one tile piece
	0.55				
		NS			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	1.0				
					END OF INVESTIGATION 1.0m 

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

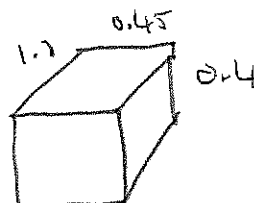
COMMENTS

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusion of roots					
0.6										
		N3			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
0.9										
					End of Investigation 0.9m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogeneous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour



Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 26/11/10 Permit # \_\_\_\_\_

COMMENTS

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions rootlets					
0.4										
		NS			silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.0										
					END OF INVESTIGATION 1.0					
										
Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel		Secondary		
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

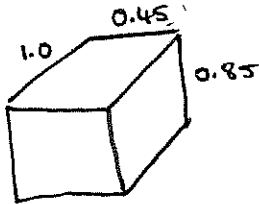
# Drilling Log

 Borehole # TPI

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 1.35m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kencodes Method \_\_\_\_\_  
 Driller Rory Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

125 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.3-0.4			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass + tile pieces, rotlets, bitumen + concrete pieces, numerous asbestos fragments increasing with depth
0.85					Silty CLAY, yellow orange, medium plasticity, damp, heterogeneous
0.35					END OF INVESTIGATION 1.35m
					

Description	Colour	Structure	Moisture	Cohesive Soils		Sand & Gravel			Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

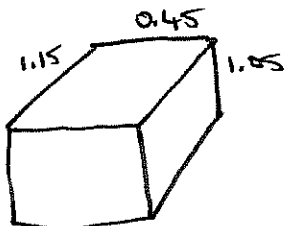
# Drilling Log

 Borehole # TP3

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller ROY Log By T. Davis Date 23/11/10 Permit # \_\_\_\_\_

COMMENTS

64 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
		0.2-0.3			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, shale pieces, ACM fragments, small amount of ash/slag					
1.05										
		1.1-1.2			Silty clay, yellow brown, medium plasticity, damp, heterogeneous					
1.45										
					End of INVESTIGATION 1.45m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogeneous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

# Drilling Log

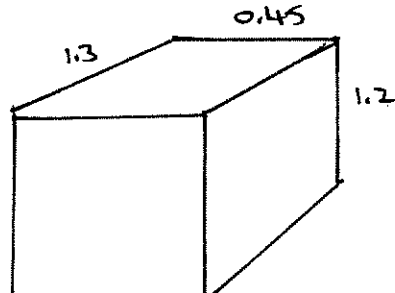
 Borehole # TPL

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method \_\_\_\_\_  
 Driller Roady Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

 732 grams  
 1125 +  
 568  
 480  
 595

3.500 kg

					3.500 kg					
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION					
					GRASS COVER					
					Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, shale pieces, numerous PCM fragments from schist - basalt					
1.2					Silty CLAY, yellow brown, low plasticity, damp, heterogeneous					
1.5					END OF INVESTIGATION 1.5m					
										
Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
										Contamination
										odour

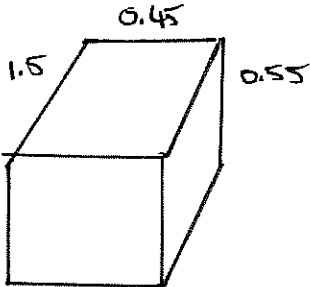
# Drilling Log

 Borehole # TP5

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth 0.9m Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Kan coleo Method \_\_\_\_\_  
 Driller Roy Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

COMMENTS

99 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.2-0.3			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets
	0.55				
					Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	0.9m				
					END OF INVESTIGATION 0.9m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

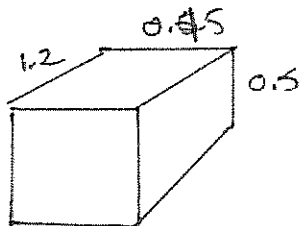
# Drilling Log

 Borehole # TP6

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

594 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.2-0.3			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, ACM fragments (numerous)
0.5		0.6-0.7			Silty clay, yellow brown, medium plasticity, heterogeneous
0.9m					END OF INVESTIGATION 0.9m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

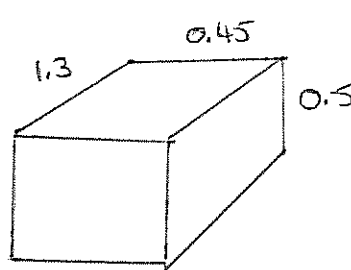
# Drilling Log

 Borehole # TP7

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken cole Method \_\_\_\_\_  
 Driller Roan Log By T.Davis Date 23/1/10 Permit # \_\_\_\_\_

**COMMENTS**

16 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, one ACM fragment
	OS				
		NS			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous
	0.8m				END OF INVESTIGATION 0.8m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

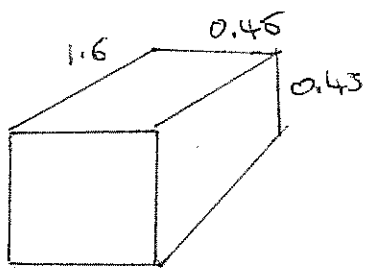
# Drilling Log

 Borehole # TP10

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller ROAY Log By T.Davis Date 23/10/10 Permit # \_\_\_\_\_

## COMMENTS

5 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
					fill; silty clay, brown, low plasticity, damp, heterogeneous with inclusions of rootlets, one Acm fragment
0.45					
					Silty clay, yellow brown, medium plasticity, damp, heterogeneous
0.8					
					END OF INVESTIGATION 0.8m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				



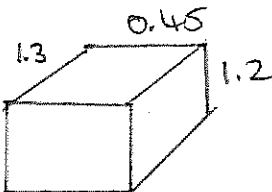
# Drilling Log

 Borehole # TP13

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller POBY Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

~~700~~ grams  
 701

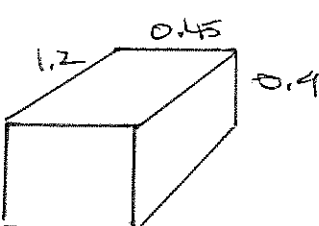
DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
					Fill: Silty clay, brown, low plasticity, damp, heterogeneous, with inclusions of rootlets, ACM fragments, tiles, brick pieces
1.2					
					Silty CLAY, yellow orange, medium plasticity, damp, heterogeneous
1.5					
					END OF INVESTIGATION 1.5m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
						Contamination				
						odour				

Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method Excavator  
 Driller Rory Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

459 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.3-0.4			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of shale + terracotta pieces, ACM fragments, tiles
	0.9	0.9-1.0			Silty clay, yellow brown, medium plasticity, damp, heterogeneous
	1.3				END OF INVESTIGATION 1.3m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary			
FILL	clayey	red	homogenous	dry	very soft	very loose	boulders	poorly sorted (well graded)	and (35-50%)
CLAY	silty	yellow	heterogeneous	damp	soft	loose	cobbles	(well graded)	some (20-35%)
SILT	sandy	white	stratified	moist	mod plasticity	medium dense	coarse gravel	well sorted	little (10-20%)
SAND	gravelly	black	laminated	wet	high plasticity	dense	fine gravel	(poorly graded)	trace (0-10%)
GRAVEL	organic	brown	lens	saturated		very dense	coarse sand		
TOPSOIL		grey	root holes						
PEAT	mottled	occasional							
									Contamination
									odour

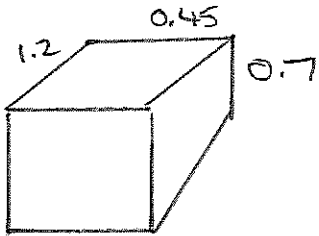
# Drilling Log

 Borehole # TP16

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co \_\_\_\_\_ Method \_\_\_\_\_  
 Driller \_\_\_\_\_ Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

## COMMENTS

21 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		01-02			Fill: Silty clay, brown, low plasticity, damp, heterogeneous with inclusions of
0.7		NS			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous
1.0					END OF INVESTIGATION 1.0m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary	
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand poorly sorted (well graded) well sorted (poorly graded) and (35-50%) some (20-35%) little (10-20%) trace (0-10%) Contamination odour

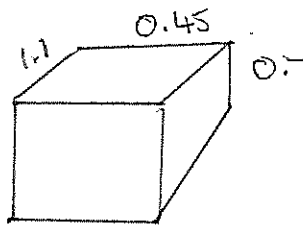
# Drilling Log

 Borehole # TD18

 Project Riverwood North Renewal Project No 41131  
 Total Hole Depth \_\_\_\_\_ Northing \_\_\_\_\_ Easting \_\_\_\_\_  
 Top of Casing \_\_\_\_\_ Water Level Initial \_\_\_\_\_ Static \_\_\_\_\_  
 Screen: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Casing: Dia \_\_\_\_\_ Length \_\_\_\_\_ Type/Size \_\_\_\_\_  
 Drill Co Ken Cole Method \_\_\_\_\_  
 Driller RDG Log By T.Davis Date 23/11/10 Permit # \_\_\_\_\_

COMMENTS

12 grams

DEPTH (METRES)	WELL CONSTRUCTION	SAMPLE ID (INCL. QA/QC REFERENCE)	PID (PPM)	USCS CLASS	DESCRIPTION
					GRASS COVER
		0.1-0.2			Fill: silty clay, brown, low plasticity, damp, heterogeneous with inclusions of glass fragments, ACM fragments, rootlets
	0.7	0.7-0.8			Silty CLAY, yellow brown, medium plasticity, damp, heterogeneous
	1.1				END OF INVESTIGATION 1.1m
					

Description	Colour	Structure	Moisture	Cohesive Soils	Sand & Gravel	Secondary				
FILL CLAY SILT SAND GRAVEL TOPSOIL PEAT	clayey silty sandy gravelly organic	red yellow white black brown grey mottled	homogenous heterogeneous stratified laminated lens root holes occasional	dry damp moist wet saturated	very soft soft firm stiff very stiff hard	non-plastic low plasticity mod plasticity high plasticity	very loose loose medium dense dense very dense	boulders cobbles coarse gravel fine gravel coarse sand	poorly sorted (well graded) well sorted (poorly graded)	and (35-50%) some (20-35%) little (10-20%) trace (0-10%)
Contamination										
odour										

## **Appendix D**

### **Laboratory Reports and Chain of Custody Documentation**



**Envirolab Services Pty Ltd**  
ABN 37 112 535 645  
12 Ashley St Chatswood NSW 2067  
ph 02 9910 6200 fax 02 9910 6201  
enquiries@envirolabservices.com.au  
www.envirolabservices.com.au

## **CERTIFICATE OF ANALYSIS 48995**

**Client:**

**JBS Environmental Pty Ltd**  
P.O. Box 940  
MASCOT  
NSW 1460

**Attention:** Sumi Dorairaj / Tim Davis

**Sample log in details:**

Your Reference:	<b>41131</b>
No. of samples:	66 Soils, 2 Waters, 1 Material
Date samples received:	26/11/10, 30/11/10
Date completed instructions received:	30/11/10

**Analysis Details:**

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

***Please refer to the last page of this report for any comments relating to the results.***

**Report Details:**

Date results requested by:	7/12/10
Date of Preliminary Report:	Not issued
Issue Date:	7/12/10

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This document is issued in accordance with NATA's accreditation requirements.

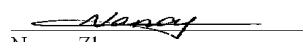
Accredited for compliance with ISO/IEC 17025.

**Tests not covered by NATA are denoted with \*.**

**Results Approved By:**

  
Matt Mansfield  
Approved Signatory

  
Rhian Morgan  
Reporting Supervisor

  
Nancy Zhang  
Chemist



Envirolab Reference: 48995  
Revision No: R 00

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-2 TP37 0.8-0.9 25/11/2010 Soil	48995-6 TP41 0.1-0.2 25/11/2010 Soil	48995-14 TP47 0.1-0.2 25/11/2010 Soil	48995-18 TP51 0.1-0.2 25/11/2010 Soil	48995-19 TP52 0.1-0.2 25/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	104	109	107	114	108

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-26 TP58 0.1-0.2 26/11/2010 Soil	48995-28 TP59 0.6-0.7 26/11/2010 Soil	48995-30 TP61 0.1-0.2 26/11/2010 Soil	48995-36 TP66 0.1-0.3 26/11/2010 Soil	48995-40 TP69 0.1-0.2 26/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	116	116	110	108	108

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-43 TP72 0.1-0.2 26/11/2010 Soil	48995-46 TP74 0.1-0.2 26/11/2010 Soil	48995-49 TP77 0.1-0.2 30/11/2010 Soil	48995-52 TP79 0.5-0.6 30/11/2010 Soil	48995-58 TP84 0.1-0.2 30/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010	05/12/2010	05/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	120	116	111	112	79

vTRH & BTEX in Soil				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference	-----	TP86	QC3	QC5
Depth	-----	0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	05/12/2010	05/12/2010	05/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	114	110	110



sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference	-----	TP37	TP41	TP47	TP51	TP52
Depth	-----	0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	140	<100	120	120
Surrogate o-Terphenyl	%	104	121	108	101	109

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference	-----	TP58	TP59	TP61	TP66	TP69
Depth	-----	0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	96	96	103	100

sTRH in Soil (C10-C36)						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference	-----	TP72	TP74	TP77	TP79	TP84
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	97	97	92	94	93

sTRH in Soil (C10-C36)				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference	-----	TP86	QC3	QC5
Depth	-----	0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<50	<50	<50
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<100	<100	<100
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<100	<100	<100
Surrogate o-Terphenyl	%	88	94	89

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-2 TP37 0.8-0.9 25/11/2010 Soil	48995-6 TP41 0.1-0.2 25/11/2010 Soil	48995-14 TP47 0.1-0.2 25/11/2010 Soil	48995-18 TP51 0.1-0.2 25/11/2010 Soil	48995-19 TP52 0.1-0.2 25/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	0.1	0.2	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.3	0.9	2.0	0.2
Anthracene	mg/kg	<0.1	<0.1	0.1	0.3	<0.1
Fluoranthene	mg/kg	<0.1	0.8	1.7	3.5	0.5
Pyrene	mg/kg	<0.1	0.8	1.7	3.4	0.5
Benzo(a)anthracene	mg/kg	<0.1	0.3	0.5	1.1	0.2
Chrysene	mg/kg	<0.1	0.3	0.6	1.2	0.2
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.6	1.2	2.4	0.3
Benzo(a)pyrene	mg/kg	<0.05	0.4	1	1.8	0.2
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.3	0.6	1.3	0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.3	0.7	1.4	0.2
Surrogate p-Terphenyl-d <sub>14</sub>	%	86	88	80	74	80

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-26 TP58 0.1-0.2 26/11/2010 Soil	48995-28 TP59 0.6-0.7 26/11/2010 Soil	48995-30 TP61 0.1-0.2 26/11/2010 Soil	48995-36 TP66 0.1-0.3 26/11/2010 Soil	48995-40 TP69 0.1-0.2 26/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.4	<0.1	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	0.7	<0.1	0.1	0.2	<0.1
Pyrene	mg/kg	0.7	<0.1	0.1	0.2	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1	<0.1	0.1	<0.1
Chrysene	mg/kg	0.2	<0.1	<0.1	0.2	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.4	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.3	<0.05	0.05	0.1	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d <sub>14</sub>	%	75	73	73	78	75

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-43 TP72 0.1-0.2 26/11/2010 Soil	48995-46 TP74 0.1-0.2 26/11/2010 Soil	48995-49 TP77 0.1-0.2 30/11/2010 Soil	48995-52 TP79 0.5-0.6 30/11/2010 Soil	48995-58 TP84 0.1-0.2 30/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010	03/12/2010	03/12/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.1	0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	0.05	0.05	0.06	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d <sub>14</sub>	%	74	78	73	75	72

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-61 TP86 0.5-0.6 30/11/2010 Soil	48995-63 QC3 - 26/11/2010 Soil	48995-65 QC5 - 30/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	03/12/2010	03/12/2010	03/12/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.2	<0.1
Pyrene	mg/kg	<0.1	0.2	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	0.1	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.1	<0.1
Surrogate p-Terphenyl-d <sub>14</sub>	%	71	73	71

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48995-6	48995-14	48995-18	48995-19	48995-26
Your Reference	-----	TP41	TP47	TP51	TP52	TP58
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	129	118	113	120	114

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48995-30	48995-36	48995-40	48995-43	48995-46
Your Reference	-----	TP61	TP66	TP69	TP72	TP74
Depth	-----	0.1-0.2	0.1-0.3	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	114	116	114	113



Organochlorine Pesticides in soil					
Our Reference:	UNITS	48995-49	48995-58	48995-63	48995-65
Your Reference	-----	TP77	TP84	QC3	QC5
Depth	-----	0.1-0.2	0.1-0.2	-	-
Date Sampled		30/11/2010	30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

Organophosphorus Pesticides	UNITS	48995-6	48995-14	48995-18	48995-19	48995-26
Our Reference:	-----	TP41	TP47	TP51	TP52	TP58
Your Reference	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Depth		25/11/2010	25/11/2010	25/11/2010	25/11/2010	26/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	129	118	113	120	114

Organophosphorus Pesticides	UNITS	48995-30	48995-36	48995-40	48995-43	48995-46
Our Reference:	-----	TP61	TP66	TP69	TP72	TP74
Your Reference	-----	0.1-0.2	0.1-0.3	0.1-0.2	0.1-0.2	0.1-0.2
Depth		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	114	116	114	113

Organophosphorus Pesticides					
Our Reference:	UNITS	48995-49	48995-58	48995-63	48995-65
Your Reference	-----	TP77	TP84	QC3	QC5
Depth	-----	0.1-0.2	0.1-0.2	-	-
Date Sampled		30/11/2010	30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-6 TP41 0.1-0.2 25/11/2010 Soil	48995-14 TP47 0.1-0.2 25/11/2010 Soil	48995-18 TP51 0.1-0.2 25/11/2010 Soil	48995-19 TP52 0.1-0.2 25/11/2010 Soil	48995-26 TP58 0.1-0.2 26/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	129	118	113	120	114

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-30 TP61 0.1-0.2 26/11/2010 Soil	48995-36 TP66 0.1-0.3 26/11/2010 Soil	48995-40 TP69 0.1-0.2 26/11/2010 Soil	48995-43 TP72 0.1-0.2 26/11/2010 Soil	48995-46 TP74 0.1-0.2 26/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	110	114	116	114	113

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-49 TP77 0.1-0.2 30/11/2010 Soil	48995-58 TP84 0.1-0.2 30/11/2010 Soil	48995-63 QC3 - 26/11/2010 Soil	48995-65 QC5 - 30/11/2010 Soil
Date extracted	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	110	93	106

Acid Extractable metals in soil	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Our Reference:	-----	TP37	TP41	TP47	TP51	TP52
Your Reference	-----	0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Depth		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	5	11	7	8	6
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	14	30	21	27	7
Copper	mg/kg	12	34	19	31	23
Lead	mg/kg	18	62	67	50	50
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	5	6	5	9	11
Zinc	mg/kg	10	65	120	71	91

Acid Extractable metals in soil	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Our Reference:	-----	TP58	TP59	TP61	TP66	TP69
Your Reference	-----	0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Depth		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	10	9	9	6	7
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	23	36	29	23	11
Copper	mg/kg	14	4	53	50	14
Lead	mg/kg	66	22	49	61	48
Mercury	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Nickel	mg/kg	5	3	5	11	6
Zinc	mg/kg	55	4	43	440	190

Acid Extractable metals in soil	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Our Reference:	-----	TP72	TP74	TP77	TP79	TP84
Your Reference	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Depth		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	11	10	10	12	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	19	30	28	34	24
Copper	mg/kg	50	12	79	3	13
Lead	mg/kg	390	50	68	21	71
Mercury	mg/kg	<0.1	0.2	0.1	<0.1	<0.1
Nickel	mg/kg	6	4	4	2	4
Zinc	mg/kg	230	34	56	3	64

Acid Extractable metals in soil	UNITS	48995-61	48995-63	48995-65
Our Reference:	-----	TP86	QC3	QC5
Your Reference	-----	0.5-0.6	-	-
Depth		30/11/2010	26/11/2010	30/11/2010
Date Sampled		Soil	Soil	Soil
Type of sample				
Date digested	-	02/12/2010	02/12/2010	02/12/2010
Date analysed	-	02/12/2010	02/12/2010	02/12/2010
Arsenic	mg/kg	11	9	8
Cadmium	mg/kg	<0.5	<0.5	<0.5
Chromium	mg/kg	31	24	180
Copper	mg/kg	1	16	26
Lead	mg/kg	19	60	62
Mercury	mg/kg	<0.1	0.1	<0.1
Nickel	mg/kg	2	5	6
Zinc	mg/kg	2	58	58

Moisture						
Our Reference:	UNITS	48995-2	48995-6	48995-14	48995-18	48995-19
Your Reference	-----	TP37	TP41	TP47	TP51	TP52
Depth	-----	0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	24	24	23	17	15

Moisture						
Our Reference:	UNITS	48995-26	48995-28	48995-30	48995-36	48995-40
Your Reference	-----	TP58	TP59	TP61	TP66	TP69
Depth	-----	0.1-0.2	0.6-0.7	0.1-0.2	0.1-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	18	25	24	20	19

Moisture						
Our Reference:	UNITS	48995-43	48995-46	48995-49	48995-52	48995-58
Your Reference	-----	TP72	TP74	TP77	TP79	TP84
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Moisture	%	6.0	17	17	19	27

Moisture				
Our Reference:	UNITS	48995-61	48995-63	48995-65
Your Reference	-----	TP86	QC3	QC5
Depth	-----	0.5-0.6	-	-
Date Sampled		30/11/2010	26/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil
Date prepared	-	2/12/2010	2/12/2010	2/12/2010
Date analysed	-	3/12/2010	3/12/2010	3/12/2010
Moisture	%	19	18	24



Asbestos ID - soils						
Our Reference:	UNITS	48995-1	48995-2	48995-3	48995-4	48995-5
Your Reference	-----	TP37	TP37	TP38	TP39	TP40
Depth	-----	0.1-0.2	0.8-0.9	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 33g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	Chrysotile asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-6	48995-7	48995-8	48995-10	48995-11
Your Reference	-----	TP41	TP42	TP43	TP44	TP45
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 27g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-12	48995-14	48995-15	48995-16	48995-17
Your Reference	-----	TP46	TP47	TP48	TP49	TP50
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 33g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	Chrysotile asbestos detected	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-18	48995-19	48995-21	48995-22	48995-23
Your Reference	-----	TP51	TP52	TP53	TP54	TP55
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		25/11/2010	25/11/2010	25/11/2010	25/11/2010	25/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-24	48995-25	48995-26	48995-27	48995-28
Your Reference	-----	TP56	TP57	TP58	TP59	TP59
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.6-0.7
Date Sampled		25/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-29	48995-30	48995-31	48995-33	48995-34
Your Reference	-----	TP60	TP61	TP62	TP63	TP64
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-35	48995-36	48995-37	48995-38	48995-40
Your Reference	-----	TP65	TP66	TP67	TP68	TP69
Depth	-----	0.1-0.2	0.1-0.3	0.1-0.2	0.2-0.3	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	3/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 27g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-41	48995-42	48995-43	48995-45	48995-46
Your Reference	-----	TP70	TP71	TP72	TP73	TP74
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	3/12/2010	3/12/2010	3/12/2010	3/12/2010	6/12/2010
Sample Description	-	Approx 27g Soil	Approx 27g Soil	Approx 35g Soil	Approx 35g Soil	Approx 35g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	Chrysotile asbestos detected Amosite asbestos detected	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-47	48995-48	48995-49	48995-50	48995-51
Your Reference	-----	TP75	TP76	TP77	TP78	TP79
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		26/11/2010	26/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	-	Approx 15g Soil	Approx 35g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	Chrysotile asbestos detected	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-52	48995-53	48995-54	48995-55	48995-57
Your Reference	-----	TP79	TP80	TP81	TP82	TP83
Depth	-----	0.5-0.6	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	Chrysotile asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48995-58	48995-59	48995-60	48995-61	48995-62
Your Reference	-----	TP84	TP85	TP86	TP86	TP87
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.5-0.6	0.1-0.2
Date Sampled		30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	6/12/2010	6/12/2010	6/12/2010	6/12/2010	6/12/2010
Sample Description	-	Approx 20g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	Chrysotile asbestos detected	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils			
Our Reference:	UNITS	48995-63	48995-65
Your Reference	-----	QC3	QC5
Depth	-----	-	-
Date Sampled		26/11/2010	30/11/2010
Type of sample		Soil	Soil
Date analysed	-	6/12/2010	6/12/2010
Sample Description	-	Approx 30g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected

BTEX in Water Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48995-66 Trip Blank - 30/11/2010 Water	48995-67 Trip Spike - 30/11/2010 Water
Date extracted	-	04/12/2010	04/12/2010
Date analysed	-	04/12/2010	04/12/2010
Benzene	µg/L	<1.0	92%
Toluene	µg/L	<1.0	93%
Ethylbenzene	µg/L	<1.0	90%
m+p-xylene	µg/L	<2.0	90%
o-xylene	µg/L	<1.0	90%
Surrogate Dibromofluoromethane	%	99	101
Surrogate toluene-d8	%	96	102
Surrogate 4-BFB	%	104	100

Method ID	Methodology Summary
<b>GC.16</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
<b>GC.3</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
<b>GC.12 subset</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
<b>GC-5</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC.8</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC-6</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
<b>Metals.20 ICP-AES</b>	Determination of various metals by ICP-AES.
<b>Metals.21 CV-AAS</b>	Determination of Mercury by Cold Vapour AAS.
<b>LAB.8</b>	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
<b>AS4964-2004</b>	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Date analysed	-			05/12/2010	48995-6	05/12/2010    05/12/2010	LCS-7	05/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	GC.16	<25	48995-6	<25    <25	LCS-7	81%
Benzene	mg/kg	0.5	GC.16	<0.5	48995-6	<0.5    <0.5	LCS-7	75%
Toluene	mg/kg	0.5	GC.16	<0.5	48995-6	<0.5    <0.5	LCS-7	76%
Ethylbenzene	mg/kg	1	GC.16	<1.0	48995-6	<1.0    <1.0	LCS-7	82%
m+p-xylene	mg/kg	2	GC.16	<2.0	48995-6	<2.0    <2.0	LCS-7	86%
o-Xylene	mg/kg	1	GC.16	<1.0	48995-6	<1.0    <1.0	LCS-7	89%
Surrogate aaa-Trifluorotoluene	%		GC.16	122	48995-6	109    109    RPD: 0	LCS-7	119%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C <sub>10</sub> -C <sub>36</sub> )						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	GC.3	<50	48995-6	<50    <50	LCS-7	86%
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	GC.3	<100	48995-6	<100    <100	LCS-7	85%
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	GC.3	<100	48995-6	140    140    RPD: 0	LCS-7	81%
Surrogate o-Terphenyl	%		GC.3	93	48995-6	121    102    RPD: 17	LCS-7	101%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-4	02/12/2010
Date analysed	-			03/12/2010	48995-6	03/12/2010    03/12/2010	LCS-4	03/12/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	LCS-4	77%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	LCS-4	89%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3    0.3    RPD: 0	LCS-4	98%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.8    0.6    RPD: 29	LCS-4	91%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.8    0.6    RPD: 29	LCS-4	91%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3    0.2    RPD: 40	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3    0.2    RPD: 40	LCS-4	111%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	48995-6	0.6    0.4    RPD: 40	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	48995-6	0.4    0.3    RPD: 29	LCS-4	94%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3    0.2    RPD: 40	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	48995-6	0.3    0.3    RPD: 0	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	66	48995-6	88    72    RPD: 20	LCS-4	70%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
HCB	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	78%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	77%
Heptachlor	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	71%
delta-BHC	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	76%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	75%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	74%
Dieldrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	76%
Endrin	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	75%
pp-DDD	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	76%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	LCS-7	76%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-5	104	48995-6	129    100    RPD: 25	LCS-7	104%



QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Diazinon	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	LCS-7	118%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	LCS-7	129%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	48995-6	<0.1    <0.1	LCS-7	97%
Surrogate TCLMX	%		GC.8	104	48995-6	129    100    RPD: 25	LCS-7	111%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Date analysed	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-7	02/12/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	LCS-7	102%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	48995-6	<0.1    <0.1	[NR]	[NR]
Surrogate TCLMX	%		GC-6	104	48995-6	129    100    RPD: 25	LCS-7	100%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-2	02/12/2010
Date analysed	-			02/12/2010	48995-6	02/12/2010    02/12/2010	LCS-2	02/12/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	48995-6	11    9    RPD: 20	LCS-2	98%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	48995-6	<0.5    <0.5	LCS-2	99%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	30    23    RPD: 26	LCS-2	97%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	34    34    RPD: 0	LCS-2	102%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Lead	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	62    65    RPD: 5	LCS-2	98%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	48995-6	<0.1    <0.1	LCS-2	112%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	6    6    RPD: 0	LCS-2	103%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	48995-6	65    67    RPD: 3	LCS-2	98%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			02/12/2010
Date analysed	-			03/12/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
BTEX in Water						Base II Duplicate II %RPD		
Date extracted	-			04/12/2010	[NT]	[NT]	LCS-W1	04/12/2010
Date analysed	-			04/12/2010	[NT]	[NT]	LCS-W1	04/12/2010
Benzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	99%
Toluene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	99%
Ethylbenzene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	100%
m+p-xylene	µg/L	2	GC.16	<2.0	[NT]	[NT]	LCS-W1	99%
o-xylene	µg/L	1	GC.16	<1.0	[NT]	[NT]	LCS-W1	100%
Surrogate Dibromofluoromethane	%		GC.16	105	[NT]	[NT]	LCS-W1	101%
Surrogate toluene-d8	%		GC.16	102	[NT]	[NT]	LCS-W1	101%
Surrogate 4-BFB	%		GC.16	107	[NT]	[NT]	LCS-W1	102%

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil			Base + Duplicate + %RPD		
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	05/12/2010    05/12/2010	48995-14	05/12/2010
vTRH C6 - C9	mg/kg	48995-46	<25    <25	48995-14	78%
Benzene	mg/kg	48995-46	<0.5    <0.5	48995-14	73%
Toluene	mg/kg	48995-46	<0.5    <0.5	48995-14	74%
Ethylbenzene	mg/kg	48995-46	<1.0    <1.0	48995-14	78%

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QUALITY CONTROL vTRH & BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
m+p-xylene	mg/kg	48995-46	<2.0    <2.0	48995-14	83%
o-Xylene	mg/kg	48995-46	<1.0    <1.0	48995-14	85%
Surrogate aaa-Trifluorotoluene	%	48995-46	116    110    RPD: 5	48995-14	106%
QUALITY CONTROL sTRH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-5	02/12/2010
Date analysed	-	48995-46	02/12/2010    02/12/2010	48995-5	02/12/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	48995-46	<50    <50	48995-5	95%
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	48995-46	<100    <100	48995-5	101%
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	48995-46	<100    <100	48995-5	103%
Surrogate o-Terphenyl	%	48995-46	97    91    RPD: 6	48995-5	102%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	03/12/2010    03/12/2010	48995-14	03/12/2010
Naphthalene	mg/kg	48995-46	<0.1    <0.1	48995-14	100%
Acenaphthylene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Acenaphthene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Fluorene	mg/kg	48995-46	<0.1    <0.1	48995-14	107%
Phenanthrene	mg/kg	48995-46	<0.1    <0.1	48995-14	#
Anthracene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Fluoranthene	mg/kg	48995-46	0.1    0.1    RPD: 0	48995-14	#
Pyrene	mg/kg	48995-46	0.1    0.1    RPD: 0	48995-14	#
Benzo(a)anthracene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Chrysene	mg/kg	48995-46	<0.1    <0.1	48995-14	#
Benzo(b+k)fluoranthene	mg/kg	48995-46	<0.2    <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	48995-46	0.05    <0.05	48995-14	#
Indeno(1,2,3-c,d)pyrene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d <sub>14</sub>	%	48995-46	78    70    RPD: 11	48995-14	75%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
HCB	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
alpha-BHC	mg/kg	48995-46	<0.1    <0.1	48995-14	85%
gamma-BHC	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
beta-BHC	mg/kg	48995-46	<0.1    <0.1	48995-14	84%
Heptachlor	mg/kg	48995-46	<0.1    <0.1	48995-14	89%
delta-BHC	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Aldrin	mg/kg	48995-46	<0.1    <0.1	48995-14	83%
Heptachlor Epoxide	mg/kg	48995-46	<0.1    <0.1	48995-14	83%
gamma-Chlordane	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
alpha-chlordane	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Endosulfan I	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
pp-DDE	mg/kg	48995-46	<0.1    <0.1	48995-14	81%
Dieldrin	mg/kg	48995-46	<0.1    <0.1	48995-14	85%
Endrin	mg/kg	48995-46	<0.1    <0.1	48995-14	87%
pp-DDD	mg/kg	48995-46	<0.1    <0.1	48995-14	82%
Endosulfan II	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
pp-DDT	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Endosulfan Sulphate	mg/kg	48995-46	<0.1    <0.1	48995-14	86%
Methoxychlor	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Surrogate TCLMX	%	48995-46	113    104    RPD: 8	48995-14	116%

**Client Reference: 41131**

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Diazinon	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Dimethoate	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Ronnel	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Chlorpyrifos	mg/kg	48995-46	<0.1    <0.1	48995-14	123%
Fenitrothion	mg/kg	48995-46	<0.1    <0.1	48995-14	129%
Bromophos-ethyl	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Ethion	mg/kg	48995-46	<0.1    <0.1	48995-14	100%
Surrogate TCLMX	%	48995-46	113    104    RPD: 8	48995-14	106%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Arochlor 1016	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Arochlor 1221*	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	48995-46	<0.1    <0.1	48995-14	107%
Arochlor 1260	mg/kg	48995-46	<0.1    <0.1	[NR]	[NR]
Surrogate TCLMX	%	48995-46	113    104    RPD: 8	48995-14	99%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Date analysed	-	48995-46	02/12/2010    02/12/2010	48995-14	02/12/2010
Arsenic	mg/kg	48995-46	10    11    RPD: 10	48995-14	97%
Cadmium	mg/kg	48995-46	<0.5    <0.5	48995-14	90%
Chromium	mg/kg	48995-46	30    31    RPD: 3	48995-14	86%
Copper	mg/kg	48995-46	12    10    RPD: 18	48995-14	103%
Lead	mg/kg	48995-46	50    43    RPD: 15	48995-14	93%
Mercury	mg/kg	48995-46	0.2    <0.1	48995-14	109%
Nickel	mg/kg	48995-46	4    4    RPD: 0	48995-14	99%
Zinc	mg/kg	48995-46	34    28    RPD: 19	48995-14	74%

**Report Comments:**

Sample 48995-5; Chrysotile found embedded in a fragment of fibre cement (total weight 0.012g). It is estimated that plaster or fibre cement sheet can contain up to 50% chrysotile asbestos fibres by weight. This gives up to 0.006g of chrysotile fibres, which in 33g of soil gives 0.18g/kg.

Sample 48995-12; Chrysotile found embedded in a fragment of fibre cement (total weight 0.33g). It is estimated that plaster or fibre cement sheet can contain up to 30% chrysotile asbestos fibres by weight. This gives up to 0.099g of chrysotile fibres, which in 33g of soil gives 3.0g/kg.

Sample 48995-42; Chrysotile & Amosite found embedded in several fragments of fibre cement (total weight 0.42g). It is estimated that plaster or fibre cement sheet can contain up to 15% chrysotile & amosite asbestos fibres by weight. This gives up to 0.063g of chrysotile fibres, which in 27g of soil gives 2.3g/kg.

Sample 48995-47; Chrysotile found embedded in several fragments of fibre cement (total weight 0.0081g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0032g of chrysotile fibres, which in 15g of soil gives 0.21g/kg.

Sample 48995-57; Chrysotile found embedded in a fragment of fibre cement (total weight 0.0338g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0135g of chrysotile fibres, which in 30g of soil gives 0.45g/kg.

PAH's in soil: # Percent recovery is not possible to report due to interference from analytes (other than those being tested) in the sample/s.

PAH in Soil: # Percent recovery is not possible to report due to interference from analytes (other than those being tested) in the sample/s.

Sample 48995-58; Chrysotile found embedded in a fragment of fibre cement (total weight 0.0216g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile asbestos fibres by weight. This gives up to 0.0086g of chrysotile fibres, which in 20g of soil gives 0.43g/kg.

Sample 48995-7, Loose Crocidolite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Sample 48995-37, Loose amosite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Sample 48995-41, Loose chrysotile & amosite fibres found in soil, however this is below the reporting limit of 0.1g/kg

Asbestos ID was analysed by Approved Identifier:	Matt Mansfield
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield
Asbestos counting was analysed by Approved Counter:	@ERROR
Asbestos counting was authorised by Approved Signatory:	@ERROR

INS: Insufficient sample for this test

NA: Test not required

<: Less than

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

>: Greater than

NT: Not tested

NA: Test not required

LCS: Laboratory Control Sample

### **Quality Control Definitions**

**Blank:** This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

**Duplicate:** This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

**Matrix Spike:** A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

**LCS (Laboratory Control Sample):** This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

**Surrogate Spike:** Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

### **Laboratory Acceptance Criteria**

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



**Envirolab Services Pty Ltd**  
ABN 37 112 535 645  
12 Ashley St Chatswood NSW 2067  
ph 02 9910 6200 fax 02 9910 6201  
enquiries@envirolabservices.com.au  
www.envirolabservices.com.au

## **SAMPLE RECEIPT ADVICE**

**Client:**

JBS Environmental Pty Ltd  
P.O. Box 940  
MASCOT NSW 1460

ph: 8338 1013  
Fax: 8338 1700

Attention: Sumi Dorairaj / Tim Davis

**Sample log in details:**

Your reference:	<b>41131</b>
Envirolab Reference:	<b>48995</b>
Date received:	26/11/10, 30/11/10
Date results expected to be reported:	<b>7/12/10</b>

Samples received in appropriate condition for analysis:	YES
No. of samples provided	66 Soils, 2 Waters, 1 Material
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice Pack

**Comments:**

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

**Contact details:**

Please direct any queries to Aileen Hie or Jacinta Hurst  
ph: 02 9910 6200 fax: 02 9910 6201  
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au



# CHAIN OF CUSTODY



1 of 6

PROJECT NO.: <b>41131</b>						LABORATORY BATCH NO.											
PROJECT NAME <b>RIVERWOOD NORTH RENEWAL</b>						SAMPLERS <b>T. DAVIS</b>											
SEND REPORT TO: <b>T. DAVIS / S. DORARAT</b> SEND INVOICE TO: <b>A. WORTH</b>						PHONE: <b>02 8338 1011</b>						EMAIL: <b>tdavis@jbsgroup.com.au</b>					
DATE NEEDED BY: <b>STANDARD TURN AROUND</b>						QC LEVEL: <b>NEPM 1999 (✓)</b>						Sdorarat@jbsgroup.com.au					
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:																	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	ASBESTOS	COMBO 6a	COMBO 3a	HOLD													NOTES
TP37 - 0.1-0.2	SOIL	25/11/10	-	BAG + JAR + ICE		X																
TP37 - 0.8-0.9			-			X		X														
TP38 - 0.1-0.2			-			X																
TP39 - 0.1-0.2			-			X																
TP40 - 0.1-0.2			-			X																
TP41 - 0.1-0.2			-			X	X															
TP42 - 0.1-0.2			-			X																
TP43 - 0.1-0.2			-			X																
TP43 - 0.8-0.9			-			X		X														
TP44 - 0.1-0.2			-			X																
TP45 - 0.1-0.2			-			X																
TP46 - 0.1-0.2			-			X																
TP46 - 0.55-0.65			-			X		X														
TP47 - 0.1-0.2			-			X	X															
TP48 - 0.1-0.2			-			X																
TP49 - 0.1-0.2			-			X																
TP50 - 0.1-0.2			-			X																
TP51 - 0.1-0.2	✓	✓	-			X	X															

RELINQUISHED BY:		METHOD OF SHIPMENT:		RECEIVED BY:		FOR RECEIVING LAB USE ONLY:	
NAME: <b>Tim Davis</b>	DATE: <b>26/11/10</b>	CONSIGNMENT NOTE NO. <b>26/11/10</b>		NAME: <b>Z.L.</b>	DATE: <b>30/11/10</b>	COOLER SEAL - Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/>	
OF: <b>JBS</b>		TRANSPORT CO. <b>etc</b>		OF: <b>ELS</b>		COOLER TEMP <input type="checkbox"/> deg C	
NAME:	DATE:	CONSIGNMENT NOTE NO.		NAME:	DATE:	COOLER SEAL - Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Broken <input type="checkbox"/>	
OF:		TRANSPORT CO		OF:		COOLER TEMP <input type="checkbox"/> deg C	

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presv.; C = Sodium Hydroxide Presv.; VC = Hydrochloric Acid Presv Vial; VS = Sulfuric Acid Presv Vial; S = Sulfuric Acid Presv; Z = Zinc Presv; E = EDTA Presv; ST = Sterile Bottle; O = Other

JBS Environmental Pty Ltd ABN 67 071 842 638  
Phone: (02) 8338-1011  
Fax: (02) 8338-1700

IMSO Forms 013 - Chain of Custody

Suite 2, 595 Gardeners Road MASCOT NSW 2020  
PO Box 940 MASCOT NSW 1460  
[www.jbsgroup.com.au](http://www.jbsgroup.com.au)

[illegible]

PROJECT NO.: 41131							LABORATORY BATCH NO.												
PROJECT NAME RIVERWOOD NORTH RENOVATION							SAMPLERS T.DAVIS												
SEND REPORT TO: T.DAVIS/S.DORAJAT SEND INVOICE TO: A.WORTH							PHONE: 02-83381011						EMAIL: t.davis@hsgroup.com.au						
DATE NEEDED BY: STANDARD TURN AROUND							QC LEVEL:						NEPM 1999 (V)						
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:																			
SAMPLE ID	MATRIX	D A T E	T I M E	T Y P E & P R E S E R V A T I V E	p H	A S B E S T O S	C O M B O 6 a	C O M B O 3 a	H O L D										N O T E S
TP67 - 0.1-0.2	26/11/10	SOIL	-	BAG + JAR HCE		X													
TP68 - 0.2-0.3			-			X													
TP68 - 0.6-0.7			-						X										
TP69 - 0.1-0.2			-			X	X												
TP70 - 0.1-0.2			-			X													
TP71 - 0.1-0.2			-			X													
TP72 - 0.1-0.2			-			X	X												
TP72 - 0.6-0.7			-						X										
TP73 - 0.1-0.2			-			X													
TP74 - 0.1-0.2			-			X	X												
TP75 - 0.1-0.2			-			X													
TP76 - 0.1-0.2			-			X													
TP77 - 0.1-0.2	30/11/10		-			X	X												
TP78 - 0.1-0.2			-			X													
TP79 - 0.1-0.2			-			X													
TP79 - 0.5-0.6			-					X											
TP80 - 0.1-0.2			-			X													
TP81 - 0.1-0.2			-			X													

RELINQUISHED BY: NAME: TIM DAVIS DATE: 26/11/10 METHOD OF SHIPMENT: CONSIGNMENT NOTE NO. TRANSPORT CO. CEC

RECEIVED BY: NAME: Z-L. ELS DATE: 30/11/10 FOR RECEIVING LAB USE ONLY: COOLER SEAL - Yes No Intact Broken COOLER TEMP deg.C COOLER SEAL - Yes No Intact Broken COOLER TEMP deg.C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Presv.; C = Sodium Hydroxide Presv.; VC = Hydrochloric Acid Presv Vial; VS = Sulfuric Acid Presv Vial; S = Sulfuric Acid Presv; Z = Zinc Presv; E = EDTA Presv; ST = Sterile Bottle; Q = Other.

## CHAIN OF CUSTODY

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**Envirolab Services Pty Ltd**  
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## **CERTIFICATE OF ANALYSIS 48761**

**Client:**

**JBS Environmental Pty Ltd**  
P.O. Box 940  
MASCOT  
NSW 1460

**Attention:** Sumi Dorairaj / Tim Davis

**Sample log in details:**

Your Reference:	<b>41131</b>
No. of samples:	50 Soils, 1 Water
Date samples received:	25/11/10
Date completed instructions received:	25/11/10

**Analysis Details:**

Please refer to the following pages for results, methodology summary and quality control data.  
Samples were analysed as received from the client. Results relate specifically to the samples as received.  
Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

***Please refer to the last page of this report for any comments relating to the results.***

**Report Details:**

Date results requested by:	2/12/10
Date of Preliminary Report:	Not Issued
Issue Date:	2/12/10

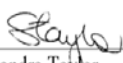
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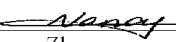
Accredited for compliance with ISO/IEC 17025.

**Tests not covered by NATA are denoted with \*.**

**Results Approved By:**

  
Sandra Taylor  
Assistant Lab Manager

  
Rhian Morgan  
Reporting Supervisor

  
Nancy Zhang  
Chemist

  
Matt Mansfield  
Approved Signatory

  
Jacinta Hurst  
Laboratory Manager



Envirolab Reference: 48761  
Revision No: R 00

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-2 TP2 0.3-0.4 23/11/2010 Soil	48761-10 TP8 0.3-0.4 23/11/2010 Soil	48761-14 TP11 0.1-0.2 23/11/2010 Soil	48761-18 TP14 0.1-0.2 23/11/2010 Soil	48761-22 TP17 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010	01/12/2010	01/12/2010	01/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	96	93	98	97	99

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-24 TP18 0.7-0.8 23/11/2010 Soil	48761-27 TP21 0.1-0.2 23/11/2010 Soil	48761-36 TP28 0.1-0.2 23/11/2010 Soil	48761-37 TP28 0.4-0.5 23/11/2010 Soil	48761-43 TP33 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010	01/12/2010	01/12/2010	01/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	99	94	96	94	100

vTRH & BTEX in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-48 QC1 - 23/11/2010 Soil	48761-49 QC2 - 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	01/12/2010	01/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25
Benzene	mg/kg	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	93	85

sTRH in Soil (C10-C36)	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Our Reference:	-----	TP2	TP8	TP11	TP14	TP17
Your Reference	-----	0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Depth		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	99	100	98	100	98

sTRH in Soil (C10-C36)	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Our Reference:	-----	TP18	TP21	TP28	TP28	TP33
Your Reference	-----	0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Depth		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
TRH C10 - C14	mg/kg	<50	<50	<50	<50	<50
TRH C15 - C28	mg/kg	<100	<100	<100	<100	<100
TRH C29 - C36	mg/kg	<100	<100	<100	<100	<100
Surrogate o-Terphenyl	%	101	99	98	100	101

sTRH in Soil (C10-C36)	UNITS	48761-48	48761-49
Our Reference:	-----	QC1	QC2
Your Reference	-----	-	-
Depth		23/11/2010	23/11/2010
Date Sampled		Soil	Soil
Type of sample			
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010
TRH C10 - C14	mg/kg	<50	<50
TRH C15 - C28	mg/kg	<100	<100
TRH C29 - C36	mg/kg	<100	<100
Surrogate o-Terphenyl	%	101	97

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-2 TP2 0.3-0.4 23/11/2010 Soil	48761-10 TP8 0.3-0.4 23/11/2010 Soil	48761-14 TP11 0.1-0.2 23/11/2010 Soil	48761-18 TP14 0.1-0.2 23/11/2010 Soil	48761-22 TP17 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	0.3	<0.1	0.9	0.8	2.0
Anthracene	mg/kg	<0.1	<0.1	0.2	0.1	0.2
Fluoranthene	mg/kg	0.4	<0.1	1.1	1.6	3.7
Pyrene	mg/kg	0.4	<0.1	1.0	1.6	3.5
Benzo(a)anthracene	mg/kg	0.1	<0.1	0.3	0.4	0.9
Chrysene	mg/kg	0.2	<0.1	0.4	0.6	1.2
Benzo(b+k)fluoranthene	mg/kg	0.2	<0.2	0.5	1.0	2.2
Benzo(a)pyrene	mg/kg	0.2	<0.05	0.3	0.8	1.6
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	0.1	0.3	0.7
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	0.1	0.4	0.7
Surrogate p-Terphenyl-d <sub>14</sub>	%	108	107	109	104	109



PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-24 TP18 0.7-0.8 23/11/2010 Soil	48761-27 TP21 0.1-0.2 23/11/2010 Soil	48761-36 TP28 0.1-0.2 23/11/2010 Soil	48761-37 TP28 0.4-0.5 23/11/2010 Soil	48761-43 TP33 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.5	<0.1	<0.1	0.6
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.9	<0.1	<0.1	1.1
Pyrene	mg/kg	<0.1	0.9	<0.1	<0.1	1.1
Benzo(a)anthracene	mg/kg	<0.1	0.2	<0.1	<0.1	0.3
Chrysene	mg/kg	<0.1	0.3	<0.1	<0.1	0.4
Benzo(b+k)fluoranthene	mg/kg	<0.2	0.5	<0.2	<0.2	0.7
Benzo(a)pyrene	mg/kg	<0.05	0.3	<0.05	<0.05	0.5
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	0.1	<0.1	<0.1	0.2
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	0.2	<0.1	<0.1	0.3
Surrogate p-Terphenyl-d <sub>14</sub>	%	110	112	105	104	104

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-48 QC1 - 23/11/2010 Soil	48761-49 QC2 - 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010
Naphthalene	mg/kg	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1
Phenanthrene	mg/kg	0.5	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	0.9	<0.1
Pyrene	mg/kg	0.9	<0.1
Benzo(a)anthracene	mg/kg	0.2	<0.1
Chrysene	mg/kg	0.3	<0.1
Benzo(b+k)fluoranthene	mg/kg	0.6	<0.2
Benzo(a)pyrene	mg/kg	0.5	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.2	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.2	<0.1
Surrogate p-Terphenyl-d <sub>14</sub>	%	106	107

Organochlorine Pesticides in soil						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference	-----	TP2	TP8	TP11	TP14	TP17
Depth	-----	0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	97	95	92	94

Organochlorine Pesticides in soil				
Our Reference:	UNITS	48761-27	48761-36	48761-43
Your Reference	-----	TP21	TP28	TP33
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
HCB	mg/kg	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	103	102

Organophosphorus Pesticides						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference	-----	TP2	TP8	TP11	TP14	TP17
Depth	-----	0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	97	95	92	94

Organophosphorus Pesticides				
Our Reference:	UNITS	48761-27	48761-36	48761-43
Your Reference	-----	TP21	TP28	TP33
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
Diazinon	mg/kg	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos-methyl	mg/kg	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	103	102

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-2 TP2 0.3-0.4 23/11/2010 Soil	48761-10 TP8 0.3-0.4 23/11/2010 Soil	48761-14 TP11 0.1-0.2 23/11/2010 Soil	48761-18 TP14 0.1-0.2 23/11/2010 Soil	48761-22 TP17 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010	27/11/2010	27/11/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	95	97	95	92	94

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-27 TP21 0.1-0.2 23/11/2010 Soil	48761-36 TP28 0.1-0.2 23/11/2010 Soil	48761-43 TP33 0.1-0.2 23/11/2010 Soil
Date extracted	-	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	27/11/2010	27/11/2010	27/11/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1
Arochlor 1221*	mg/kg	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1
Surrogate TCLMX	%	91	103	102

Acid Extractable metals in soil	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Our Reference:	-----	TP2	TP8	TP11	TP14	TP17
Your Reference	-----	0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Depth		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Arsenic	mg/kg	10	15	8	8	9
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	29	35	32	20	25
Copper	mg/kg	24	11	7	20	19
Lead	mg/kg	43	39	35	61	65
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	8	3	12	8	5
Zinc	mg/kg	45	30	24	68	57

Acid Extractable metals in soil	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Our Reference:	-----	TP18	TP21	TP28	TP28	TP33
Your Reference	-----	0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Depth		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Date Sampled		Soil	Soil	Soil	Soil	Soil
Type of sample						
Date digested	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Arsenic	mg/kg	12	10	10	13	5
Cadmium	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	mg/kg	42	27	30	38	14
Copper	mg/kg	4	25	8	4	16
Lead	mg/kg	20	180	42	25	27
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	4	9	3	3	10
Zinc	mg/kg	5	120	23	5	41

Acid Extractable metals in soil			
Our Reference:	UNITS	48761-48	48761-49
Your Reference	-----	QC1	QC2
Depth	-----	-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date digested	-	26/11/2010	26/11/2010
Date analysed	-	26/11/2010	26/11/2010
Arsenic	mg/kg	9	11
Cadmium	mg/kg	<0.5	<0.5
Chromium	mg/kg	20	33
Copper	mg/kg	11	5
Lead	mg/kg	47	35
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	4	3
Zinc	mg/kg	150	16



Moisture						
Our Reference:	UNITS	48761-2	48761-10	48761-14	48761-18	48761-22
Your Reference	-----	TP2	TP8	TP11	TP14	TP17
Depth	-----	0.3-0.4	0.3-0.4	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010	29/11/2010	29/11/2010	29/11/2010
Moisture	%	23	16	28	19	17

Moisture						
Our Reference:	UNITS	48761-24	48761-27	48761-36	48761-37	48761-43
Your Reference	-----	TP18	TP21	TP28	TP28	TP33
Depth	-----	0.7-0.8	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	26/11/2010	26/11/2010	26/11/2010	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010	29/11/2010	29/11/2010	29/11/2010
Moisture	%	25	19	23	24	14

Moisture			
Our Reference:	UNITS	48761-48	48761-49
Your Reference	-----	QC1	QC2
Depth	-----	-	-
Date Sampled		23/11/2010	23/11/2010
Type of sample		Soil	Soil
Date prepared	-	26/11/2010	26/11/2010
Date analysed	-	29/11/2010	29/11/2010
Moisture	%	17	29

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-1 TP1 0.3-0.4 23/11/2010 Soil	48761-2 TP2 0.3-0.4 23/11/2010 Soil	48761-3 TP3 0.2-0.3 23/11/2010 Soil	48761-5 TP4 0.3-0.4 23/11/2010 Soil	48761-6 TP5 0.2-0.3 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 35g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-7 TP6 0.2-0.3 23/11/2010 Soil	48761-8 TP6 0.6-0.7 23/11/2010 Soil	48761-9 TP7 0.1-0.2 23/11/2010 Soil	48761-10 TP8 0.3-0.4 23/11/2010 Soil	48761-11 TP9 0.1-0.2 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-12 TP9 0.4-0.5 23/11/2010 Soil	48761-13 TP10 0.3-0.4 23/11/2010 Soil	48761-14 TP11 0.1-0.2 23/11/2010 Soil	48761-15 TP12 0.1-0.2 23/11/2010 Soil	48761-16 TP12 0.4-0.5 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-17 TP13 0.2-0.3 23/11/2010 Soil	48761-18 TP14 0.1-0.2 23/11/2010 Soil	48761-19 TP15 0.3-0.4 23/11/2010 Soil	48761-21 TP16 0.1-0.2 23/11/2010 Soil	48761-22 TP17 0.1-0.2 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 30g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	Chrysotile asbestos detected Amosite asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-23 TP18 0.1-0.2 23/11/2010 Soil	48761-24 TP18 0.7-0.8 23/11/2010 Soil	48761-25 TP19 0.1-0.2 23/11/2010 Soil	48761-26 TP20 0.1-0.2 23/11/2010 Soil	48761-27 TP21 0.1-0.2 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	48761-28 TP21 0.7-0.8 23/11/2010 Soil	48761-29 TP22 0.1-0.2 23/11/2010 Soil	48761-30 TP23 0.1-0.2 23/11/2010 Soil	48761-31 TP24 0.1-0.2 23/11/2010 Soil	48761-32 TP25 0.1-0.2 23/11/2010 Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 39g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48761-34	48761-35	48761-36	48761-37	48761-38
Your Reference	-----	TP26	TP27	TP28	TP28	TP29
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.4-0.5	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48761-39	48761-40	48761-42	48761-43	48761-44
Your Reference	-----	TP30	TP31	TP32	TP33	TP34
Depth	-----	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Asbestos ID - soils						
Our Reference:	UNITS	48761-45	48761-46	48761-47	48761-48	48761-49
Your Reference	-----	TP34	TP35	TP36	QC1	QC2
Depth	-----	1.1-1.2	0.2-0.3	0.1-0.2	-	-
Date Sampled		23/11/2010	23/11/2010	23/11/2010	23/11/2010	23/11/2010
Type of sample		Soil	Soil	Soil	Soil	Soil
Date analysed	-	30/11/2010	30/11/2010	30/11/2010	30/11/2010	30/11/2010
Sample Description	-	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil	Approx 40g Soil
Asbestos ID in soil	-	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg	No asbestos found at reporting limit of 0.1g/kg
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Method ID	Methodology Summary
<b>GC.16</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
<b>GC.3</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
<b>GC.12 subset</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
<b>GC-5</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC.8</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC-6</b>	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
<b>Metals.20 ICP-AES</b>	Determination of various metals by ICP-AES.
<b>Metals.21 CV-AAS</b>	Determination of Mercury by Cold Vapour AAS.
<b>LAB.8</b>	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
<b>ASB.1</b>	Asbestos ID - Qualitative identification of asbestos type fibres in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques.

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTRH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-11	26/11/2010
Date analysed	-			01/12/2010	48761-37	01/12/2010    01/12/2010	LCS-11	01/12/2010
vTRH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	GC.16	<25	48761-37	<25    <25	LCS-11	81%
Benzene	mg/kg	0.5	GC.16	<0.5	48761-37	<0.5    <0.5	LCS-11	77%
Toluene	mg/kg	0.5	GC.16	<0.5	48761-37	<0.5    <0.5	LCS-11	79%
Ethylbenzene	mg/kg	1	GC.16	<1.0	48761-37	<1.0    <1.0	LCS-11	83%
m+p-xylene	mg/kg	2	GC.16	<2.0	48761-37	<2.0    <2.0	LCS-11	84%
o-Xylene	mg/kg	1	GC.16	<1.0	48761-37	<1.0    <1.0	LCS-11	87%
Surrogate aaa-Trifluorotoluene	%		GC.16	106	48761-37	94    97    RPD: 3	LCS-11	96%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTRH in Soil (C <sub>10</sub> -C <sub>36</sub> )						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-11	26/11/2010
Date analysed	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-11	26/11/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	GC.3	<50	48761-37	<50    <50	LCS-11	86%
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	GC.3	<100	48761-37	<100    <100	LCS-11	91%
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	GC.3	<100	48761-37	<100    <100	LCS-11	84%
Surrogate o-Terphenyl	%		GC.3	99	48761-37	100    100    RPD: 0	LCS-11	95%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-11	26/11/2010
Date analysed	-			27/11/2010	48761-37	27/11/2010    27/11/2010	LCS-11	27/11/2010
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	116%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	96%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	103%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	101%
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	101%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	LCS-11	120%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	48761-37	<0.2    <0.2	[NR]	[NR]
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	48761-37	<0.05    <0.05	LCS-11	87%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	48761-37	<0.1    <0.1	[NR]	[NR]
Surrogate p-Terphenyl-d14	%		GC.12 subset	139	48761-37	104    74    RPD: 34	LCS-11	106%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organochlorine Pesticides in soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2010	[NT]	[NT]	LCS-6	27/11/2010
HCB	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	97%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
beta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	91%
Heptachlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	89%
delta-BHC	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Aldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	87%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	93%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan I	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDE	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	94%
Dieldrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	94%
Endrin	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	91%
pp-DDD	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	99%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
pp-DDT	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	LCS-6	88%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-5	85	[NT]	[NT]	LCS-6	86%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Organophosphorus Pesticides						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2010	[NT]	[NT]	LCS-6	27/11/2010
Diazinon	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Dimethoate	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ronnel	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-6	93%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-6	100%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.1	GC.8	<0.1	[NT]	[NT]	LCS-6	90%
Surrogate TCLMX	%		GC.8	85	[NT]	[NT]	LCS-6	87%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PCBs in Soil						Base II Duplicate II %RPD		
Date extracted	-			26/11/2010	[NT]	[NT]	LCS-6	26/11/2010
Date analysed	-			27/11/2010	[NT]	[NT]	LCS-6	27/11/2010
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221*	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	LCS-6	119%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	[NT]	[NT]	[NR]	[NR]
Surrogate TCLMX	%		GC-6	85	[NT]	[NT]	LCS-6	104%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Date digested	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-5	26/11/2010
Date analysed	-			26/11/2010	48761-37	26/11/2010    26/11/2010	LCS-5	26/11/2010
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4	48761-37	13    14    RPD: 7	LCS-5	109%
Cadmium	mg/kg	0.5	Metals.20 ICP-AES	<0.5	48761-37	<0.5    <0.5	LCS-5	109%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	38    42    RPD: 10	LCS-5	111%
Copper	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	4    2    RPD: 67	LCS-5	116%



**Client Reference: 41131**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Acid Extractable metals in soil						Base II Duplicate II %RPD		
Lead	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	25    26    RPD: 4	LCS-5	110%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.1	48761-37	<0.1    <0.1	LCS-5	101%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	3    3    RPD: 0	LCS-5	113%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1	48761-37	5    4    RPD: 22	LCS-5	109%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Moisture				
Date prepared	-			26/11/2010
Date analysed	-			29/11/2010
Moisture	%	0.1	LAB.8	<0.10

QUALITY CONTROL	UNITS	PQL	METHOD	Blank
Asbestos ID - soils				
Date analysed	-			[NT]

**Report Comments:**

Asbestos: A portion of the supplied sample was sub-sampled for asbestos according to Envirolab procedures. We cannot guarantee that this sub-sample is indicative of the entire sample. Envirolab recommends supplying 30-40g of sample in it's own container.

Sample 48761-22; Chrysotile & Amosite found embedded in a fragment of fibre cement (total weight 0.0919g). It is estimated that plaster or fibre cement sheet can contain up to 40% chrysotile & amosite asbestos fibres by weight. This gives up to 0.0368g of chrysotile fibres & amosite, which in 36g of soil gives 1.0g/kg.

Sample 48761-1 & -31, Loose chrysotile fibres found in sample however this was below the reporting limit of 0.1g/kg.

Asbestos ID was analysed by Approved Identifier:	Matt Mansfield
Asbestos ID was authorised by Approved Signatory:	Matt Mansfield
Asbestos counting was analysed by Approved Counter:	@ERROR
Asbestos counting was authorised by Approved Signatory:	@ERROR

INS: Insufficient sample for this test	PQL: Practical Quantitation Limit	NT: Not tested
NA: Test not required	RPD: Relative Percent Difference	NA: Test not required
<: Less than	>: Greater than	LCS: Laboratory Control Sample

**Quality Control Definitions**

**Blank:** This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.

**Duplicate:** This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.

**Matrix Spike:** A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.

**LCS (Laboratory Control Sample):** This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.

**Surrogate Spike:** Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

**Laboratory Acceptance Criteria**

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batched of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Duplicates: <5xPQL - any RPD is acceptable; >5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for SVOC and speciated phenols is acceptable.



**Envirolab Services Pty Ltd**  
ABN 37 112 535 645  
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www.envirolabservices.com.au

## **SAMPLE RECEIPT ADVICE**

**Client:**

JBS Environmental Pty Ltd  
P.O. Box 940  
MASCOT NSW 1460

ph: 8338 1013  
Fax: 8338 1700

Attention: Sumi Dorairaj / Tim Davis

**Sample log in details:**

Your reference:	<b>41131</b>
Envirolab Reference:	<b>48761</b>
Date received:	25/11/10
Date results expected to be reported:	<b>2/12/10</b>

Samples received in appropriate condition for analysis:	YES
No. of samples provided	50 Soils, 1 Water
Turnaround time requested:	Standard
Temperature on receipt	Cool
Cooling Method:	Ice Pack

**Comments:**

Samples will be held for 1 month for water samples and 2 months for soil samples from date of receipt of samples.

**Contact details:**

Please direct any queries to Aileen Hie or Jacinta Hurst  
ph: 02 9910 6200 fax: 02 9910 6201  
email: ahie@envirolabservices.com.au or jhurst@envirolabservices.com.au

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## CHAIN OF CUSTODY - Client



## ENVIROLAB SERVICES

Client: JBS Environmental	Client Project Name and Number: 41131	<b>Envirolab Services</b> 12 Ashley St, Chatswood, NSW, 2067  Phone: 02 9958 5801 Fax: 02 9958 5803 E-mail: tnotaras@envirolabservices.com.au  Contact: Tania Notaras
Project Mgr: Dorairaj	PO No.:	
Sampler: Davis	Envirolab Services Quote No.:	
Address: 128 O'Riordan St Mascot	Date results required: Or choose <u>standard</u> 1 day / 2 day / 3 day	
Email: sdorairaj@jbsgroup.com.au +davis@jbsgroup.com	Note: Inform lab in advance if urgent turnaround is required - surcharge applies	
Phone: 8388 1011 Fax: 8338 1700		

Sample Information				Tests Required												Comments		
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Asbestos	Combo 6a	Combo 3a	HOLD											Provide as much information about the sample as you can
1	TP1/0.3-0.4m	23/11/10	S	✓														 <b>Envirolab Services</b> 12 Ashley St Chatswood NSW 2067 Ph: 9958 5800  Job No: 48761  Date received: 25/11/10 Time received: 11am Received by: JML Temp: Cool/Ambient Cooling: Ice/No Security: Intact/Broken/None
2	TP2/0.3-0.4m			✓	✓													
3	TP3/0.3-0.3m			✓														
4	TP3/1.0-1.2m						✓											
5	TP4/0.3-0.4m			✓														
6	TP5/0.2-0.3m			✓														
7	TP6/0.2-0.3m			✓														
8	TP6/0.6-0.7m			✓														
9	TP7/0.1-0.2m			✓														
10	TP8/0.3-0.4m			✓	✓													
11	TP9/0.1-0.2m			✓														
12	TP9/0.4-0.5m			✓														
13	TP10/0.3-0.4m			✓														
14	TP11/0.1-0.2m			✓	✓													
15	TP12/0.1-0.2m			✓														

Relinquished by (company): JBS	Received by (company): ELS	Samples Received: Cool or Ambient (circle one)
Print Name: Sumi Dorairaj	Print Name: Juliana Lummeke	Temperature Received at: (if applicable)
Date & Time: 25/11/10	Date & Time: 25/11/10	Transported by: Hand delivered / courier
Signature: [Signature]	Signature: [Signature]	Page No: 1 of 4

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## CHAIN OF CUSTODY - Client



## ENVIROLAB SERVICES

Client: <u>JBS</u>				Client Project Name and Number: <u>41131</u>				Envirolab Services 12 Ashley St, Chatswood, NSW, 2067											
Project Mgr: <u>Douira</u>				PO No.:				Phone: 02 9958 5801											
Sampler: <u>Davis</u>				Envirolab Services Quote No.:				Fax: 02 9958 5803											
Address:				Date results required:				E-mail: tnotaras@envirolabservices.com.au											
Email:				Or choose: <u>standard</u> / 1 day / 2 day / 3 day				Contact: Tania Notaras											
Phone:				Note: Inform lab in advance if urgent turnaround is required - surcharge applies															
Fax:																			
Sample Information				Tests Required												Comments			
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	Asbestos	Combo 6a	Combo 3a	HOLD											Provide as much information about the sample as you can	
16	TP12/0.4-0.5m			✓															
17	TP13/0.2-0.3m			✓															
18	TP14/0.1-0.2m			✓	✓														
19	TP15/0.3-0.4m			✓															
20	TP15/0.9-1.0m						✓												
21	TP16/0.1-0.2m			✓															
22	TP17/0.1-0.2m			✓	✓														
23	TP18/0.1-0.2m			✓															
24	TP18/0.7-0.8m					✓													
25	TP19/0.1-0.2m			✓															
26	TP20/0.1-0.2m			✓															
27	TP21/0.1-0.2m			✓	✓														
28	TP21/0.7-0.8m																		
29	TP22/0.1-0.2m			✓															
30	TP23/0.1-0.2m			✓															
Relinquished by (company): <u>JBS</u>				Received by (company):				Samples Received: Cool or Ambient (circle one)											
Print Name: <u>Sumir Douira</u>				Print Name:				Temperature Received at: (if applicable)											
Date & Time: <u>25/11/10</u>				Date & Time:				Transported by: Hand delivered / courier											
Signature: <u>[Signature]</u>				Signature:				Page No: <u>2 of 4</u>											

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## CHAIN OF CUSTODY - Client



## ENVIROLAB SERVICES

Client: <u>JBS Environmental</u>				Client Project Name and Number:				Envirolab Services							
Project Mgr:								12 Ashley St, Chatswood, NSW, 2067							
Sampler:				PO No.:				Phone: 02 9958 5801							
Address:				Envirolab Services Quote No. :				Fax: 02 9958 5803							
Email:				Date results required:				E-mail: tnotaras@envirolabservices.com.au							
Phone:				Or choose: standard / 1 day / 2 day / 3 day				Contact: Tania Notaras							
Fax:				Note: Inform lab in advance if urgent turnaround is required - surcharge applies											

Sample Information				Tests Required												Comments			
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	HOLD	Asbestos	Combo 3a	Combo 6a												Provide as much information about the sample as you can
31	TP24/0.1-0.2m				✓		✓												
32	TP25/0.1-0.2m				✓														
33	TP25/0.5-0.6m			✓															
34	TP26/0.1-0.2m				✓														
35	TP27/0.1-0.2m				✓														
36	TP28/0.1-0.2m						✓												
37	TP28/0.4-0.5m					✓													
38	TP29/0.1-0.2m				✓														
39	TP30/0.1-0.2m				✓														
40	TP31/0.1-0.2m				✓														
41	TP31/0.6-0.7m			✓															
42	TP32/0.1-0.2m				✓														
43	TP33/0.1-0.2m				✓		✓												
44	TP34/0.1-0.2m				✓														
45	TP34/1.1-1.2m				✓														

Relinquished by (company): <u>JBS</u>				Received by (company):				Samples Received: Cool or Ambient (circle one)			
Print Name: <u>Sami Dorraoui</u>				Print Name:				Temperature Received at: (if applicable)			
Date & Time: <u>25/11/10</u>				Date & Time:				Transported by: Hand delivered / courier			
Signature: <u>[Signature]</u>				Signature:				Page No: <u>3 of 4</u>			

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## CHAIN OF CUSTODY - Client



## ENVIROLAB SERVICES

Client: JBS Environmental				Client Project Name and Number: 4-1131				Envirolab Services 12 Ashley St, Chatswood, NSW, 2067											
Project Mgr: Dorairaj				PO No.:				Phone: 02 9958 5801											
Sampler: Davis				Envirolab Services Quote No. :				Fax: 02 9958 5803											
Address:				Date results required:				E-mail: tnotaras@envirolabservices.com.au											
Email:				Or choose: standard / 1 day / 2 day / 3 day				Contact: Tania Notaras											
Phone: Fax:				Note: Inform lab in advance if urgent turnaround is required - surcharge applies															
Sample Information				Tests Required												Comments			
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	HOLD	Asbestos	Combo 6g	Combo 3g											Provide as much information about the sample as you can	
46	TP35/0.2-0.3m	24/11/10	S		✓														
47	TP35/1.2-1.3m	↓	↓	✓	✓														
48	QA1 QC1A	↓	↓				✓											please send to SQ	
-	QC1 QC1A	↓	↓				✓												
49	QA2 QC2A	↓	↓				✓											please send to SQS	
-	QC2 QC2A	↓	↓				✓												
50	Trip Spike	↓	W																
51	Trip Blank	↓	S																
Relinquished by (company): SMI Dorairaj				Received by (company):				Samples Received: Cool or Ambient (circle one)											
Print Name: JBS				Print Name:				Temperature Received at: (if applicable)											
Date & Time: 25/11/10				Date & Time:				Transported by: Hand delivered / courier											
Signature: SO				Signature:				Page No: 4 of 4											





6 December 2010

S. Doraiaj & T. Davis  
JBS Environmental  
PO Box 940  
MASCOT NSW 1460

Fax: 8338-1700; tdavis@jbgroup.com.au

**CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION****YOUR REFERENCE/JOB No.:** 41131**TYPE OF SAMPLES:** Bulk samples - as received from Envirolab Services**SITE LOCATION:** Riverwood North Renewal**DATE SAMPLED:** 26 & 30 November 2010 **DATE RECEIVED:** 1 December 2010**OUR REFERENCE:** 64830/31-ID

**TEST METHOD:** Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

All sampling and site work have been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sample No	Lab No	Sample Information	Analysis Result	Description
QC3A	64830	Soil sample as received, sampled 26 November 2010	no asbestos detected	The sample was a brown, clumpy soil with stones and plant matter, of approximate weight 32 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.
QC5A	64831	Soil sample as received, sampled 30 November 2010	amosite & chrysotile asbestos detected	The sample was a brown soil with clay clumps, fibrous fragments and stones and plant matter, of approximate weight 31g, in which organic fibres were detected. Amosite and chrysotile asbestos fibres were found above the Reporting Limit of 0.1 g/kg.

Analysed and reported by:

K. Grose, Approved Identifier and Signatory.



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Accreditation number 2515

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6 December 2010

Sumi Doraiaj  
JBS Environmental  
PO Box 940  
MASCOT NSW 1460

Fax: 8338-1700

**CERTIFICATE OF ANALYSIS – ASBESTOS IDENTIFICATION**

**YOUR REFERENCE/JOB No.:** 41131  
**TYPE OF SAMPLES:** Bulk samples - as received from Envirolab Services  
**SITE LOCATION:** Unknown  
**DATE SAMPLED:** 24 November 2010 **DATE RECEIVED:** 29 November 2010  
**OUR REFERENCE:** 64775/76-ID

**TEST METHOD:** Soil samples examined by Stereomicroscopy and Polarized Light Microscopy (with Dispersion Staining) in accordance with AS 4964-2004: - 'Method for the qualitative identification of asbestos in bulk samples' as outlined in Laboratory Method ID/1. The Reporting Limit for the results in this Certificate is numerically equal to the lowest detection limit of 0.1 g/kg. Trace asbestos analysis has been conducted on each sample, which is generally designed to detect 'respirable' asbestos fibres (ie less than 3 micrometres in width) distributed throughout the sample.

All sampling and site work have been undertaken by the client - the analytical procedures and results reported on this Certificate have been conducted by Pickford & Rhyder Consulting.

Sample No	Lab No	Sample Information	Analysis Result	Description
QC1A	64775	Soil sample as received	no asbestos detected	The sample was a brown soil with clay clumps, stones and plant matter, of approximate weight 36 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.
QC2A	64776	Soil sample as received	no asbestos detected	The sample was a brown soil with stones and plant matter, of approximate weight 31 g, in which organic fibres were detected. No asbestos fibres were found at the Reporting Limit of 0.1 g/kg.

Analysed and reported by:

K. Grose,  
Approved Identifier and Signatory.



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## CHAIN OF CUSTODY - Client

[illegible]

Form: 302 - Chain of Custody-Client, Issued 14/02/08, Version 3, Page 1 of 1.

## ANALYTICAL REPORT

6 December 2010

**JBS Environmental Pty Ltd**

PO Box 940

MASCOT

NSW 1460

**Attention:** Sumi Dorairaj

Your Reference: 41131

Our Reference: SE83561

Samples: 2 Soils

Received: 26/11/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

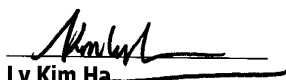
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

*Results Approved and/or Authorised by:*

  
**Ly Kim Ha**  
Organics Signatory

  
**Huong Crawford**  
Metals Signatory



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MBTEX in Soil			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference	-----	QC1 QC1A	QC2 QC2A
Sample Matrix	-----	Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (MBTEX)		1/12/2010	1/12/2010
Date Analysed (MBTEX)		1/12/2010	1/12/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	72	80



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TRH in soil with..C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83561-1 QC1 QC1A Soil 24/11/2010	SE83561-2 QC2 QC2A Soil 24/11/2010
Date Extracted (TRH C6-C9 PT)		1/12/2010	1/12/2010
Date Analysed (TRH C6-C9 PT)		1/12/2010	1/12/2010
TRH C <sub>6</sub> - C <sub>9</sub> P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		1/12/2010	1/12/2010
Date Analysed (TRH C10-C36)		1/12/2010	1/12/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<20	<20
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<50	<50
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<50	<50

PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83561-1 QC1 QC1A Soil 24/11/2010	SE83561-2 QC2 QC2A Soil 24/11/2010
Date Extracted		1/12/2010	1/12/2010
Date Analysed		1/12/2010	1/12/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	0.21
Pyrene	mg/kg	<0.10	0.18
Benzo[a]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.10	<0.10
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.8	<1.99
Nitrobenzene-d5	%	125	126
2-Fluorobiphenyl	%	124	120
<i>p</i> -Terphenyl- <i>d</i> 14	%	128	130



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Metals in Soil by ICP-OES			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference	-----	QC1 QC1A	QC2 QC2A
Sample Matrix	-----	Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (Metals)		2/12/2010	2/12/2010
Date Analysed (Metals)		2/12/2010	2/12/2010
Arsenic	mg/kg	8	7
Cadmium	mg/kg	0.5	0.4
Chromium	mg/kg	25	13
Copper	mg/kg	6.3	12
Lead	mg/kg	35	38
Nickel	mg/kg	2.0	4.2
Zinc	mg/kg	21	45



Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE83561-1	SE83561-2
Your Reference	-----	QC1 QC1A	QC2 QC2A
Sample Matrix	-----	Soil	Soil
Date Sampled		24/11/2010	24/11/2010
Date Extracted (Mercury)		3/12/2010	3/12/2010
Date Analysed (Mercury)		3/12/2010	3/12/2010
Mercury	mg/kg	<0.05	<0.05



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Moisture	UNITS	SE83561-1	SE83561-2
Our Reference:	-----	QC1 QC1A	QC2 QC2A
Your Reference	-----	Soil	Soil
Sample Matrix		24/11/2010	24/11/2010
Date Sampled			
Date Analysed (moisture)		1/12/2010	1/12/2010
Moisture	%	21	28

Method ID	Methodology Summary
<b>SEO-018</b>	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
<b>SEO-020</b>	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
<b>SEO-030</b>	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
<b>SEM-010</b>	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
<b>SEM-005</b>	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
<b>AN002</b>	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
MBTEX in Soil								
Date Extracted (MBTEX)				01/12/10	[NT]	[NT]	LCS	01/12/10
Date Analysed (MBTEX)				01/12/10	[NT]	[NT]	LCS	01/12/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	87%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	79%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	80%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	81%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	88%
BTEX Surrogate (%)	%	0	SEO-018	95	[NT]	[NT]	LCS	87%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				01/12/10	[NT]	[NT]	LCS	01/12/10
Date Analysed (TRH C6-C9 PT)				01/12/10	[NT]	[NT]	LCS	01/12/10
TRH C <sub>6</sub> - C <sub>9</sub> P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	103%
Date Extracted (TRH C10-C36)				01/12/10	[NT]	[NT]	LCS	01/12/10
Date Analysed (TRH C10-C36)				01/12/10	[NT]	[NT]	LCS	01/12/10
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	124%
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	123%
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	105%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				01/12/10	[NT]	[NT]	LCS	01/12/10
Date Analysed				01/12/10	[NT]	[NT]	LCS	01/12/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	101%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	92%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	99%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	96%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	98%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	97%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	99%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	82%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.8	SEO-030	<1.8	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	127	[NT]	[NT]	LCS	129%
2-Fluorobiphenyl	%	0	SEO-030	127	[NT]	[NT]	LCS	121%
p -Terphenyl-d14	%	0	SEO-030	115	[NT]	[NT]	LCS	116%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				02/12/10	[NT]	[NT]	LCS	02/12/10
Date Analysed (Metals)				02/12/10	[NT]	[NT]	LCS	02/12/10
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	97%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	97%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	98%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	98%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	96%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	96%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				3/12/2010	[NT]	[NT]	LCS	97%
Date Analysed (Mercury)				3/12/2010	[NT]	[NT]	LCS	3/12/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	104%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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**Result Codes**

[INS] : Insufficient Sample for this test  
[NR] : Not Requested  
[NT] : Not tested  
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference  
\* : Not part of NATA Accreditation  
[N/A] : Not Applicable

**Report Comments**

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans\*)

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([www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm)). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

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**Quality Control Protocol**

**Method Blank:** An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

**Duplicate:** A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

**Surrogate Spike:** An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

**Internal Standard:** Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

**Laboratory Control Sample:** A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

**Matrix Spike:** An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

**Quality Acceptance Criteria**

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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## Client Details

Requested By : **Sumi Dorairaj**  
 Client : JBS Environmental Pty Ltd  
 Contact : Sumi Dorairaj  
 Address : PO Box 940  
 MASCOT NSW 1460

Email : sdorairaj@jbsgroup.com.au  
 Telephone : 02 8338 1013  
 Facsimile : 02 8338 1700

Project : 41131  
 Order Number :  
 Samples : 2 Soils

## Laboratory Details

Laboratory : SGS Environmental Services  
 Manager : Edward Ibrahim  
 Address : Unit 16, 33 Maddox Street  
 Alexandria NSW 2015

Email : au.samplerreceipt.sydney@sgs.com  
 Telephone : 61 2 8594 0400  
 Facsimile : 61 2 8594 0499

Report No : **SE83561**  
 No. of Samples : 2  
 Due Date : 3/12/2010

Date Instructions Received : 29/11/2010  
 Sample Receipt Date : 26/11/2010

Samples received in good order	: YES	Samples received in correct container::	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: Other Lab	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

## Comments

Instructions received 29/11/2010@5.09PM.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

**The signed chain of custody will be returned to you with the original report.**



**SAMPLE RECEIPT ADVICE (SRA) - continued**

Client : JBS Environmental Pty Ltd  
Project : 41131

Report No : SE83561

**Summary of Samples and Requested Analysis**

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	MBTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Moisture
1	QC1 QC1A	X	X	X	X	X	X	X
2	QC2 QC2A	X	X	X	X	X	X	X

Sample No.	Description
1	QC1 QC1A
2	QC2 QC2A

4219

## CHAIN OF CUSTODY - Client



## ENVIROLAB SERVICES

Client: <u>IRS Environment 1</u>				Client Project Name and Number: <u>4-1131</u>				EnviroLab Services 12 Ashley St, Chatswood, NSW, 2067			
Project Mgr: <u>Dairia J</u>								Phone: 02 9958 5801			
Sampler: <u>Davis</u>				PO No.:				Fax: 02 9958 5803			
Address:				EnviroLab Services Quote No.:				E-mail: <a href="mailto:tnotaras@envirolabservices.com.au">tnotaras@envirolabservices.com.au</a>			
Email:				Date results required:				Or choose: standard / 1 day / 2 day / 3 day			
Phone:				Note: Inform lab in advance if urgent turnaround is required - surcharge applies				Contact: Tania Notaras			
Fax:											
Sample Information				Tests Required				Comments			
EnviroLab Sample ID	Client Sample ID	Date sampled	Type of sample	Asbestos	Combo 6g	Combo 3g					Provide as much information about the sample as you can
46	TP35/0-2-0-3m	24/11/16	S	✓							
	TP35/1-2-1-3m										
47	TP36/0-1-0-2m			✓							
48	QA1 OC1A										
1	QA2 OC2A										
49	QA2 OC2A										
50	Temp Spike		W								
51	Temp Blank		S								
Relinquished by (company): <u>Smi Dairia J</u>				Received by (company): <u>SGS</u>				Samples Received: <u>Cool or Ambient (circle one)</u>			
Print Name: <u>IRS</u>				Print Name: <u>Karla L KALLA</u>				Temperature Received at: <u>SC</u> (if applicable)			
Date & Time: <u>25/11/16</u>				Date & Time: <u>26/11/16 @ 3:30pm</u>				Transported by: Hand delivered / courier			
Signature: <u>RS</u>				Signature: <u>Karla</u>				Page No: <u>4 of 4</u>			

## AU.SampleReceipt.Sydney (Sydney)

---

**From:** Sumi Dorairaj [SDorairaj@jbgroup.com.au]  
**Sent:** Monday, 29 November 2010 5:09 PM  
**To:** AU.SampleReceipt.Sydney (Sydney)  
**Cc:** Tim Davis  
**Subject:** RE: 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Angela,

Thanks for the reminder – we are after TPH, BTEX, PAH, 8 HM (As, Cd, Cr, Cu, Pb, Ni, Hg, Zn) for these samples.

Regards,  
Sumi Dorairaj  
Senior Environmental Consultant  
JBS Environmental Pty Ltd  
(ph) 02 8338 1011 (m) 0427 782 127

---

**From:** AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]  
**Sent:** Monday, 29 November 2010 5:03 PM  
**To:** Sumi Dorairaj  
**Cc:** Tim Davis  
**Subject:** FW: 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Sumi / Tim,  
Unfortunately analysis progression has been halted for this job. We are currently awaiting specifications to "Combo 3a". Please advise as soon as possible testing parameters associated to this package type. Thank you

Kind Regards

**Angela Mamalicos**  
**Environmental Services**  
Sample Administration Manager

Phone: +61 (0)2 8594 0400

---

**From:** AU.SampleReceipt.Sydney (Sydney)  
**Sent:** Friday, 26 November 2010 4:42 PM  
**To:** 'sdorairaj@jbgroup.com.au'  
**Cc:** 'tdavis@jbgroup.com.au'  
**Subject:** 41131 - Combo 3a - Specify testing parameters, SE83561

Hi Sumi / Tim,

Regarding samples delivered at SGS today, forwarded by Envirolabs, SGS will require the testing scheme associated to Combo 3a.  
Unfortunately SGS does not have a package called Combo 3a.

At present job has been halted awaiting feedback.

Kind Regards

29/11/2010



## ANALYTICAL REPORT

8 December 2010

**JBS Environmental Pty Ltd**

PO Box 940

MASCOT

NSW 1460

**Attention:** **Tim Davis**

Your Reference: 41131 - Riverwood North Renewal

Our Reference: SE83681

Samples: 3 Soils

Received: 1/12/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

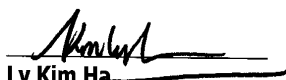
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

*Results Approved and/or Authorised by:*

  
**Ly Kim Ha**  
Organics Signatory

  
**Huong Crawford**  
Metals Signatory



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ACCREDITATION

SGS Australia Pty Ltd  
ABN 44 000 964 278

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia  
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499  
www.au.sgs.com

MBTEX in Soil			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference	-----	QC3A	QC5A
Sample Matrix	-----	Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted (MBTEX)		6/12/2010	6/12/2010
Date Analysed (MBTEX)		6/12/2010	6/12/2010
Methyl-tert-butyl ether (MtBE)	mg/kg	<0.1	<0.1
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	102	99



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TRH in soil with C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83681-1 QC3A Soil 26/11/2010	SE83681-3 QC5A Soil 30/11/2010
Date Extracted (TRH C6-C9 PT)		6/12/2010	6/12/2010
Date Analysed (TRH C6-C9 PT)		6/12/2010	6/12/2010
TRH C <sub>6</sub> - C <sub>9</sub> P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		6/12/2010	6/12/2010
Date Analysed (TRH C10-C36)		6/12/2010	6/12/2010
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	<20	<20
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	<50	<50
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	<50	<50

PAHs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83681-1 QC3A Soil 26/11/2010	SE83681-3 QC5A Soil 30/11/2010
Date Extracted		6/12/2010	6/12/2010
Date Analysed		6/12/2010	6/12/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	0.47	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	0.97	0.18
Pyrene	mg/kg	0.96	0.17
Benzo[a]anthracene	mg/kg	0.29	<0.10
Chrysene	mg/kg	0.30	<0.10
Benzo[b,k]fluoranthene	mg/kg	0.62	<0.20
Benzo[a]pyrene	mg/kg	0.42	<0.10
Indeno[123-cd]pyrene	mg/kg	0.40	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	0.40	<0.10
Total PAHs (sum)	mg/kg	<5.63	<1.95
Nitrobenzene-d5	%	116	112
2-Fluorobiphenyl	%	100	96
<i>p</i> -Terphenyl- <i>d</i> 14	%	102	94



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OC Pesticides in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83681-1 QC3A Soil 26/11/2010	SE83681-3 QC5A Soil 30/11/2010
Date Extracted		3/12/2010	3/12/2010
Date Analysed		3/12/2010	3/12/2010
HCB	mg/kg	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>trans</i> -Chlordane ( <i>gamma</i> )	mg/kg	<0.1	<0.1
<i>cis</i> -Chlordane ( <i>alpha</i> )	mg/kg	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene ( <i>Surrogate</i> )	%	124	125



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OP Pesticides in Soil by GCMS			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference	-----	QC3A	QC5A
Sample Matrix	-----	Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted		6/12/2010	6/12/2010
Date Analysed		6/12/2010	6/12/2010
Dichlorvos	mg/kg	<1	<1
Dimethoate	mg/kg	<1	<1
Diazinon	mg/kg	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	100	96
d14-p-Terphenyl (Surr)	%	102	94

PCBs in Soil Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83681-1 QC3A Soil 26/11/2010	SE83681-3 QC5A Soil 30/11/2010
Date Extracted		3/12/2010	3/12/2010
Date Analysed		3/12/2010	3/12/2010
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90
PCB_Surrogate 1	%	124	125



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Metals in Soil by ICP-OES Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE83681-1 QC3A Soil 26/11/2010	SE83681-3 QC5A Soil 30/11/2010
Date Extracted (Metals)		6/12/2010	6/12/2010
Date Analysed (Metals)		6/12/2010	6/12/2010
Arsenic	mg/kg	7	11
Cadmium	mg/kg	0.5	0.8
Chromium	mg/kg	21	30
Copper	mg/kg	17	18
Lead	mg/kg	72	90
Nickel	mg/kg	4.2	4.5
Zinc	mg/kg	78	85

Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference	-----	QC3A	QC5A
Sample Matrix	-----	Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Extracted (Mercury)		6/12/2010	6/12/2010
Date Analysed (Mercury)		6/12/2010	6/12/2010
Mercury	mg/kg	0.07	0.07



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Moisture			
Our Reference:	UNITS	SE83681-1	SE83681-3
Your Reference	-----	QC3A	QC5A
Sample Matrix	-----	Soil	Soil
Date Sampled		26/11/2010	30/11/2010
Date Analysed (moisture)		6/12/2010	6/12/2010
Moisture	%	16	21

Method ID	Methodology Summary
<b>SEO-018</b>	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
<b>SEO-020</b>	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
<b>SEO-030</b>	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
<b>SEO-005</b>	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
<b>AN420</b>	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
<b>SEM-010</b>	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
<b>SEM-005</b>	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
<b>AN002</b>	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
MBTEX in Soil								
Date Extracted (MBTEX)				06/12/10	[NT]	[NT]	LCS	06/12/10
Date Analysed (MBTEX)				06/12/10	[NT]	[NT]	LCS	06/12/10
Methyl-tert-butyl ether (MtBE)	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	106%
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	97%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	98%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	100%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	103%
BTEX Surrogate (%)	%	0	SEO-018	106	[NT]	[NT]	LCS	96%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Date Analysed (TRH C6-C9 PT)				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
TRH C <sub>6</sub> - C <sub>9</sub> P&T	mg/kg	20	SEO-018	<20	SE83681-1	<20    [N/T]	LCS	102%
Date Extracted (TRH C10-C36)				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Date Analysed (TRH C10-C36)				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
TRH C <sub>10</sub> - C <sub>14</sub>	mg/kg	20	SEO-020	<20	SE83681-1	<20    <20	LCS	113%
TRH C <sub>15</sub> - C <sub>28</sub>	mg/kg	50	SEO-020	<50	SE83681-1	<50    <50	LCS	116%
TRH C <sub>29</sub> - C <sub>36</sub>	mg/kg	50	SEO-020	<50	SE83681-1	<50    <50	LCS	106%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Date Analysed				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	LCS	93%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	LCS	100%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	LCS	112%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.47    0.38    RPD: 21	LCS	102%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	LCS	128%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.97    0.83    RPD: 16	LCS	113%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.96    0.83    RPD: 15	LCS	118%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.29    0.25    RPD: 15	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.30    0.26    RPD: 14	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE83681-1	0.62    0.58    RPD: 7	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.42    0.38    RPD: 10	LCS	115%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.40    0.38    RPD: 5	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	<0.10    <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE83681-1	0.40    0.37    RPD: 8	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.8	SEO-030	<1.8	SE83681-1	<5.63    <5.06	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	114	SE83681-1	116    118    RPD: 2	LCS	112%
2-Fluorobiphenyl	%	0	SEO-030	92	SE83681-1	100    100    RPD: 0	LCS	94%
p -Terphenyl-d 14	%	0	SEO-030	84	SE83681-1	102    98    RPD: 4	LCS	82%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				3/12/2010	SE83681-3	3/12/2010    3/12/2010	LCS	3/12/2010
Date Analysed				3/12/2010	SE83681-3	3/12/2010    3/12/2010	LCS	3/12/2010
HCB	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	124%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	101%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	93%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>trans</i> -Chlordane ( <i>gamma</i> )	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>cis</i> -Chlordane ( <i>alpha</i> )	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	81%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	88%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	81%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xy lene ( <i>Surrogate</i> )	%	0	SEO-005	98	SE83681-3	125    128    RPD: 2	LCS	76%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OP Pesticides in Soil by GCMS								
Date Extracted				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Date Analysed				06/12/10	SE83681-1	6/12/2010    6/12/2010	LCS	06/12/10
Dichlorvos	mg/kg	1	AN420	<1	SE83681-1	<1    <1	LCS	101%
Dimethoate	mg/kg	1	AN420	<1	SE83681-1	<1    <1	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	SE83681-1	<0.5    <0.5	LCS	104%
Fenitrothion	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2    <0.2	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	SE83681-1	<0.20    <0.20	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2    <0.2	LCS	122%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2    <0.2	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2    <0.2	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	SE83681-1	<0.5    <0.5	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	SE83681-1	<0.2    <0.2	LCS	127%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	SE83681-1	<0.20    <0.20	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	92	SE83681-1	100    100    RPD: 0	LCS	94%
d14-p-Terphenyl (Surr)	%	0	AN420	84	SE83681-1	102    98    RPD: 4	LCS	78%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				3/12/2010	SE83681-3	3/12/2010    3/12/2010	LCS	3/12/2010
Date Analysed				3/12/2010	SE83681-3	3/12/2010    3/12/2010	LCS	3/12/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	LCS	69%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE83681-3	<0.1    <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE83681-3	<0.90    <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	98	SE83681-3	125    128    RPD: 2	LCS	72%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				6/12/2010	[NT]	[NT]	LCS	6/12/2010
Date Analysed (Metals)				6/12/2010	[NT]	[NT]	LCS	6/12/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	110%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	115%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	106%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	107%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	112%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	109%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	108%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				6/12/2010	[NT]	[NT]	LCS	6/12/2010
Date Analysed (Mercury)				6/12/2010	[NT]	[NT]	LCS	6/12/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	114%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- <b>NO test</b> required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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**Result Codes**

[INS] : Insufficient Sample for this test  
[NR] : Not Requested  
[NT] : Not tested  
[LOR] : Limit of reporting

[RPD] : Relative Percentage Difference  
\* : Not part of NATA Accreditation  
[N/A] : Not Applicable

**Report Comments**

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans\*)

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**Quality Control Protocol**

**Method Blank:** An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

**Duplicate:** A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

**Surrogate Spike:** An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

**Internal Standard:** Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

**Laboratory Control Sample:** A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

**Matrix Spike:** An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

**Quality Acceptance Criteria**

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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## Client Details

Requested By : **Tim Davis**  
 Client : JBS Environmental Pty Ltd  
 Contact : Tim Davis  
 Address : PO Box 940  
 MASCOT NSW 1460

Email : tdavis@jbsgroup.com.au  
 Telephone : 02 8338 1013  
 Facsimile : 02 8338 1700

Project : 41131 - Riverwood North Renewal  
 Order Number :  
 Samples : 3 Soils

## Laboratory Details

Laboratory : SGS Environmental Services  
 Manager : Edward Ibrahim  
 Address : Unit 16, 33 Maddox Street  
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com  
 Telephone : 61 2 8594 0400  
 Facsimile : 61 2 8594 0499

Report No : **SE83681**  
 No. of Samples : 3  
 Due Date : 8/12/2010

Date Instructions Received : 1/12/2010  
 Sample Receipt Date : 1/12/2010

Samples received in good order	: YES	Samples received in correct container::	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice
Sample containers provided by	: Other Lab	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

## Comments

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

**The signed chain of custody will be returned to you with the original report.**



**SAMPLE RECEIPT ADVICE (SRA) - continued**

Client : JBS Environmental Pty Ltd  
Project : 41131 - Riverwood North Renewal

Report No : SE83681

**Summary of Samples and Requested Analysis**

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	MBTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	OP Pesticides in Soil by GCMS	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Hold sample-NO test required	Moisture
1	QC3A	X	X	X	X	X	X	X	X	X		X
2	QC4A										X	
3	QC5A	X	X	X	X	X	X	X	X	X		X

Sample No.	Description
1	QC3A
2	QC4A
3	QC5A





**SQS**

Received V12/L-  
B,  
I,  
C  
330 O  
O  
Samp's intake  
Cedar Creek Park,  
Saginaw Co., Mich.  
Site location  
SQS #87 X6  
SE83681

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**Document Status**

Rev No.	Author	Reviewer	Approved for Issue		
		Name	Name	Signature	Date
A	Sumi Dorairaj	Charlie Furr	Charlie Furr		10/12/10
0	Sumi Dorairaj	Charlie Furr	Charlie Furr		27/01/11





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