

TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 21.09 AHD*

FEASTING: 371094.3

NORTHING: 6368008.6

DIP/AZIMUTH: 90°/--

PIT No: 24

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND		
A	Auger sample	pp Pocket penetrometer (kPa)
D	Disturbed sample	PID Photo ionisation detector
B	Bulk sample	S Standard penetration test
U	Tube sample (x mm dia.)	PL Point load strength Is(50) MPa
W	Water sample	V Shear Vane (kPa)
C	Core drilling	▷ Water seep
		⚡ Water level

CHECKED
Initials:
Date:



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Geotechnics • Environment • Groundwater

TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 32.72 AHD*
EASTING: 370972.4
NORTHING: 6367170.1
DIP/AZIMUTH: 90°/--

PIT No: 25
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.2	TOPSOIL: Grey-brown silty clay topsoil, some rootlets to 0.1m										
		CLAY: Very stiff light brown mottled orange clay, M>Wp		pp	0.4		350 kPa					
		From 0.7m, light grey mottled orange										
	1			pp	1.0		300 kPa					
		From 1.5m, hard										
				pp	1.5		>400 kPa					
	2											
		From 2.0m, possible rock structure, and some iron cementing/staining										
		From 2.5m, dark grey/black staining (laminite/claystone?)										
				D	2.7							
	3	Pit discontinued at 3.0m										
	4											

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 26.64 AHD*

EASTING: 370892

NORTHING: 6366944.3

DIP/AZIMUTH: 90°/--

PIT No: 26

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
In drainage gully approximately 0.5m upslope of low point of gully

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength ls(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		⚡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 28.10 AHD*
EASTING: 371025.8
NORTHING: 6366800.2
DIP/AZIMUTH: 90°/--

PIT No: 27
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.3	TOPSOIL/COLLUVIUM (FILLING?): Grey-brown slightly sandy clay, with some fine to medium sized gravel, M<Wp		D, pp	0.2		>400 kPa					
		CLAY: Stiff, light grey-brown mottled orange clay, M>Wp		D, pp	0.4		150 kPa					
		From 0.7m, very stiff, light grey mottled yellow-orange										
	1											
				D, pp	1.2		350 kPa					
	1.6											
		CLAY: Hard, light grey mottled orange and orange-red clay, M<Wp, some iron cementing, some claystone gravel		D, pp	1.8		>400 kPa					
	2											
				D, pp	2.5		>400 kPa					
	3	Pit discontinued at 3.0m										
	3.0											
	4											

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 19.40 AHD*

SEASTING: 371145.5

NORTHING: 6366779

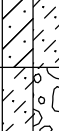
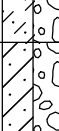
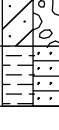
DIP/AZIMUTH: 90°/--

PIT No: 28

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING: Grey-brown silty sand filling, with organics, damp		D, PID	0.2		<1 ppm					
	0.4	CLAYEY SAND (FILLING?): Grey-brown clayey sand, some gravel (colluvium/filling?), moist		D, PID	0.6		<1 ppm					
	0.9	SANDY CLAY/CLAYEY SAND: Dark grey mottled dark brown sandy clay/clayey sand, wet										
1				D	1.4							
				D	1.9							
2												
	2.1	CLAYEY SAND AND GRAVEL: Dark grey mottled orange and orange-red fine to coarse grained clayey sand and fine to medium sized gravel, wet, some seepage										
	2.5	SANDY CLAY AND GRAVEL: Stiff dark grey mottled orange and orange-red fine to coarse grained sandy clay and fine to medium sized gravel, wet		D, pp	2.6		200 kPa					
3	3.0	CLAYSTONE/LAMINITE: Very low strength, highly weathered dark grey claystone		D	3.1							
	3.2	Pit discontinued at 3.2m										
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: Seepage between 2.1m and 2.5m depth

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Lantana filled drainage gully adjacent

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND		
A	Auger sample	pp Pocket penetrometer (kPa)
D	Disturbed sample	PID Photo ionisation detector
B	Bulk sample	S Standard penetration test
U	Tube sample (x mm dia.)	PL Point load strength ls(50) MPa
W	Water sample	V Shear Vane (kPa)
C	Core drilling	▷ Water seep
		↕ Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 27.85 AHD*
EASTING: 371404.6
NORTHING: 6366730.4
DIP/AZIMUTH: 90°/--

PIT No: 29
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.2	TOPSOIL: Grey-brown silty sandy clay topsoil, dry		D	0.05							
		CLAY: Very stiff, light grey-brown mottled orange clay, M>Wp		D, pp	0.4		350-400 kPa					
1		From 0.9m, light grey mottled orange and orange-red, some iron staining, M<Wp		D, pp	1.0		>400 kPa	1				
				pp	1.5		320-400 kPa					
2				pp	2.0		320 kPa	2				
		From 2.4m, possible rock structure										
		From 2.7m, grading to claystone		D	2.8							
3	3.0	Pit discontinued at 3.0m						3				
4								4				

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

☐ Sand Penetrometer AS1289.6.3.3

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
 Excavated in area of eroded surface soils (0.1m to 0.2m deep ruts)

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 37.49 AHD*
EASTING: 371707.2
NORTHING: 6366808
DIP/AZIMUTH: 90°/--

PIT No: 30
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.1	TOPSOIL: Grey-brown silty clay topsoil, M<<Wp (dry)		D, PID	0.05		<1 ppm					
		CLAY: Hard light grey-brown slightly sandy clay, M<Wp		D, pp	0.3		>400 kPa					
	0.6	SANDSTONE: Low strength, highly weathered light grey and yellow-orange sandstone Pit discontinued at 0.75m, refusal on sandstone		D	0.65							
	0.75											
1												
2												
3												
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Ceramic tiles and glass on surface

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 31.88 AHD*
EASTING: 371921
NORTHING: 6366825
DIP/AZIMUTH: 90°/--

PIT No: 31
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.2	TOPSOIL: Grey-brown silty sand topsoil, with some roots and rootlets, damp		D	0.1							
	0.5	SILTY SANDY CLAY: Hard grey-brown silty sandy clay, some gravel, M<<Wp		D, pp	0.3		>400 kPa					
	0.8	CLAY: Hard grey mottled orange slightly sandy clay, some claystone gravel, M<Wp		D, pp	0.6		>400 kPa					
	0.95	CLAYSTONE (TUFFACEOUS?): Low to medium strength, highly weathered fragmented light grey-brown claystone		D	0.9							
1		Pit discontinued at 0.95m, refusal on claystone										
2												
3												
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Excavated within low point/gully

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 29.99 AHD*
EASTING: 371996.9
NORTHING: 6367138.9
DIP/AZIMUTH: 90°/--

PIT No: 32
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.2	FILLING: Dark grey-brown silty sand filling with concrete, glass, bricks, plaster, possible fibro fragment, damp		D, PID	0.1		<1 ppm					
	0.3	FILLING: Dark grey-brown silty sand filling, some siltstone gravel, damp		D, PID	0.25		<1 ppm					
		CLAY: Hard light brown slightly sandy clay, M<Wp		pp	0.5		>400 kPa					
	0.8	PEBBLY SANDSTONE: Very low to low strength, highly weathered grey mottled orange pebbly sandstone										
1	1.1	Pit discontinued at 1.1m										
	2											
	3											
	4											

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
			Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 32.64 AHD*

READING: 371928.2

NORTHING: 6367156.1

DIP/AZIMUTH: 90°/--

PIT No: 33

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Fibro, concrete and glass stockpile approximately 0.2m above surrounding levels

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND		
A	Auger sample	pp Pocket penetrometer (kPa)
D	Disturbed sample	PID Photo ionisation detector
B	Bulk sample	S Standard penetration test
U	Tube sample (x mm dia.)	PL Point load strength ls(50) MPa
W	Water sample	V Shear Vane (kPa)
C	Core drilling	▷ Water seep
		↕ Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 32.37 AHD*
EASTING: 371860
NORTHING: 6367184.9
DIP/AZIMUTH: 90°/--

PIT No: 34
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING: Dark grey and dark grey-brown silty sandy clay filling, some siltstone gravel, some roots and rootlets, damp		D, PID	0.01		<1ppm					
	0.2			D, PID	0.1		<1ppm					
	0.3	SILTY CLAY: Grey silty clay, with some roots and rootlets (former topsoil)										
		CLAY: Hard, grey-brown mottled orange clay, M<Wp		D, pp	0.5		>400 kPa					
	0.8	From 0.7m, some fine to medium sized gravel										
	0.9	CLAYSTONE: Very low to low strength, highly weathered grey claystone, strength increasing		D	0.85							
1		Pit discontinued at 0.9m, refusal on claystone										
2												
3												
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Some fibro and concrete on surface

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 28.99 AHD*

SEASTING: 371696.8

NORTHING: 6367212

DIP/AZIMUTH: 90°/--

PIT No: 35

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Fibro pipe, fibro fragments and fibro guttering surrounding pit location

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep
		↕	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 33.66 AHD*

EASTING: 371848.5

NORTHING: 6366893.7

DIP/AZIMUTH: 90°/--

PIT No: 36

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND		
A	Auger sample	pp Pocket penetrometer (kPa)
D	Disturbed sample	PID Photo ionisation detector
B	Bulk sample	S Standard penetration test
U	Tube sample (x mm dia.)	PL Point load strength ls(50) MPa
W	Water sample	V Shear Vane (kPa)
C	Core drilling	▷ Water seep
		↯ Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 25.96 AHD*
EASTING: 371667.1
NORTHING: 6367302.1
DIP/AZIMUTH: 90°/--

PIT No: 37
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.1	TOPSOIL: Light yellow-brown clayey sand and gravel topsoil, some rootlets, dry CLAY: Hard, grey mottled orange clay, M<Wp		D	0.05							
				D, pp	0.5		>400 kPa					
	0.7	CLAYSTONE: Low to medium strength, moderately to highly weathered grey claystone, some extremely low to very low strength bands		D	0.9							
	1.5	Pit discontinued at 1.5m, slow progress on claystone										
	2											
	3											
	4											

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 22.41 AHD*
EASTING: 372068.7
NORTHING: 6367647.4
DIP/AZIMUTH: 90°/--

PIT No: 38
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.15	TOPSOIL: Grey-brown silty clayey sand and topsoil, some rootlets, dry to damp		D	0.1							
		CLAY: Hard dark grey-brown clay, M<Wp		D, pp	0.2		>400 kPa					
		From 0.35m, very stiff grey-brown mottled orange, M>Wp										
1				D, pp	0.8		200 kPa					
		From 1.5m, light grey/grey-brown mottled orange		D, pp	1.6		250-300 kPa					
2		From 2.0m, light grey mottled red, possible rock structure, friable		D, pp	2.2		220 kPa					
3	3.0	Pit discontinued at 3.0m		D	2.9							
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



Douglas Partners
Geotechnics • Environment • Groundwater

TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 17.69 AHD*
EASTING: 372148.5
NORTHING: 6368137
DIP/AZIMUTH: 90°/--

PIT No: 39
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
	0.15	TOPSOIL: Grey-brown silty clay and sand topsoil, with some roots and rootlets, damp										
		CLAY: Hard grey-brown mottled orange clay, M<Wp		D, pp	0.4		>400 kPa					
	0.6	CLAY/CLAYSTONE: Very stiff light grey-brown mottled orange clay, with rock structure (extremely low strength, extremely weathered?), friable		D	0.8							
	1	From ~1.0m, light grey mottled orange		D	1.5							
		From 1.7m, light grey mottled red-orange		D	2.0							
	2			D, pp	2.0		200-400 kPa					
				D, pp	2.8		300-400 kPa					
3	3.0	Pit discontinued at 3.0m										
4												

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 22.53 AHD*

SEASTING: 371257.7

NORTHING: 6367649.7

DIP/AZIMUTH: 90°/--

PIT No: 40

PROJECT No: 39664A

DATE: 29 Oct 07

SHEET 1 OF 1

[illegible]

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
Approximately 22m from Pit 7

☐ Sand Penetrometer AS1289.6.3.3

☐ Cone Penetrometer AS1289.6.3.2

SAMPLING & IN SITU TESTING LEGEND		
A	Auger sample	pp Pocket penetrometer (kPa)
D	Disturbed sample	PID Photo ionisation detector
B	Bulk sample	S Standard penetration test
U	Tube sample (x mm dia.)	PL Point load strength ls(50) MPa
W	Water sample	V Shear Vane (kPa)
C	Core drilling	▷ Water seep
		⚡ Water level

CHECKED
Initials:
Date:



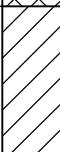
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TEST PIT LOG

CLIENT: Coal and Allied Operations Pty Limited
PROJECT: Preliminary Contamination & Geotechnical Assessment
LOCATION: Black Hill

SURFACE LEVEL: 21.63 AHD*
EASTING: 371291.7
NORTHING: 6367671.7
DIP/AZIMUTH: 90°/--

PIT No: 41
PROJECT No: 39664A
DATE: 29 Oct 07
SHEET 1 OF 1

RL	Depth (m)	Description of Strata	Graphic Log	Sampling & In Situ Testing				Water	Dynamic Penetrometer Test (blows per mm)			
				Type	Depth	Sample	Results & Comments		5	10	15	20
		FILLING: Light yellow-brown clayey sand and gravel filling										
	0.5	FILLING: Dark grey-brown clay filling, some coal and siltstone, some orange mottling, friable										
	1											
	1.2	CLAY: Grey and orange-red clay, M>Wp										
		From 1.4m, light grey and yellow-orange										
	1.8	Pit discontinued at 1.8m										
	2											
	3											
	4											

RIG: Case 590 Super M backhoe, 450mm bucket with teeth

LOGGED: Heads

WATER OBSERVATIONS: No free groundwater observed

☐ Sand Penetrometer AS1289.6.3.3
☐ Cone Penetrometer AS1289.6.3.2

REMARKS: *Surveyed by Monteath & Powys Pty Ltd.
 Approximately halfway between Pits 9 and 10, approximately 12m from Pit 10

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≡	Water level

CHECKED
Initials:
Date:



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APPENDIX B

LABORATORY TEST RESULTS

7 November 2007

TEST REPORT

Douglas Partners Pty Ltd

Box 324

Hunter Region Mail Centre

NSW 2310

Your Reference: 39664A, Black Hill

Report Number: 56177

Attention: Patrick Heads

Dear Patrick

The following samples were received from you on the date indicated.

Samples:	Qty.	37 Soils & 4 Fibros
Date of Receipt of Samples:		31/10/07
Date of Receipt of Instructions:		31/10/07
Date Preliminary Report Emailed:		Not Issued

These samples were analysed in accordance with your written instructions.

A copy of the instructions is attached with the analytical report.

The results and associated quality control are contained in the following pages of this report.

Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

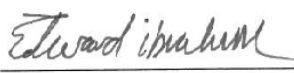
Yours faithfully

SGS ENVIRONMENTAL SERVICES



Ly Kim Ha

Senior Organic Chemist



Edward Ibrahim

Laboratory Services Manager



WORLD RECOGNISED
ACCREDITATION

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Page 1 of 47

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	96	150	<50
TRH C ₂₉ - C ₃₆	mg/kg	53	<50	<50	130	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	117	129	102	103	109

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	95	92	115	121	109

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	115	105	119	87	73

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	200	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	60	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	117	98	99	101	77

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	122	123	106	123	101

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	24
TRH C ₁₅ - C ₂₈	mg/kg	130	<50	<50	<50	360
TRH C ₂₉ - C ₃₆	mg/kg	160	<50	<50	<50	160
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	110	93	104	91	91

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	150	150	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	120	250	<50	<50	<50
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	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5	<1.5	<1.5	<1.5
BTEX Surrogate (%)	%	97	90	83	86	85

TRH/BTEX in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	290	130
TRH C ₂₉ - C ₃₆	mg/kg	100	91
Benzene	mg/kg	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<0.5	<0.5
Total Xylenes	mg/kg	<1.5	<1.5
BTEX Surrogate (%)	%	96	84

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
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	<0.2	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.2	0.5	0.2	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.5	0.2	<0.1	<0.1
Pyrene	mg/kg	<0.1	0.4	0.2	0.2	<0.1
Benzo[a]anthracene	mg/kg	<0.1	0.3	<0.1	0.1	<0.1
Chrysene	mg/kg	<0.1	0.2	0.1	0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	0.5	<0.2	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	0.28	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.65	<3.48	<2.15	<1.75	<1.55
Nitrobenzene-d5	%	117	109	107	105	101
2-Fluorobiphenyl	%	116	106	107	100	105
<i>p</i> -Terphenyl-d14	%	115	115	111	108	106

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
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	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.55	<1.55	<1.55	<1.55	<1.55
Nitrobenzene-d5	%	94	105	103	94	96
2-Fluorobiphenyl	%	94	106	100	100	97
p -Terphenyl-d14	%	109	109	108	114	102

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
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	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.55	<1.55	<1.55	<1.55	<1.55
Nitrobenzene-d5	%	101	104	96	100	88
2-Fluorobiphenyl	%	101	103	96	102	91
p -Terphenyl-d14	%	108	110	105	109	93

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
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	0.3	0.3	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.1	0.2	<0.1
Pyrene	mg/kg	<0.1	<0.1	0.1	0.2	<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	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.55	<1.55	<1.75	<1.95	<1.55
Nitrobenzene-d5	%	107	103	91	109	99
2-Fluorobiphenyl	%	104	100	93	107	99
p -Terphenyl-d14	%	117	111	93	105	103

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
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	<0.3	<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	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.75	<1.55	<1.55	<1.55	<1.55
Nitrobenzene-d5	%	83	96	70	83	99
2-Fluorobiphenyl	%	83	98	72	81	97
p -Terphenyl-d14	%	86	102	72	84	103

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
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	<0.7	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.1	0.4
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	0.1	0.3	0.3
Pyrene	mg/kg	<0.1	<0.1	0.1	0.3	0.3
Benzo[a]anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	0.2
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	0.15	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	0.1	<0.1
Total PAHs	mg/kg	<2.15	<1.55	<1.56	<2.05	<2.35
Nitrobenzene-d5	%	94	103	100	97	102
2-Fluorobiphenyl	%	91	102	98	97	100
p -Terphenyl-d14	%	94	105	102	98	96

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
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	<0.3	<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	0.1	0.2	<0.1	<0.1	<0.1
Pyrene	mg/kg	0.1	0.2	<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	0.07	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total PAHs	mg/kg	<1.85	<1.97	<1.55	<1.55	<1.55
Nitrobenzene-d5	%	97	101	104	97	99
2-Fluorobiphenyl	%	98	100	99	94	100
p -Terphenyl-d14	%	97	103	102	99	105

PAHs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
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	0.4	0.4
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	0.2	0.1
Pyrene	mg/kg	0.3	0.1
Benzo[a]anthracene	mg/kg	0.2	<0.1
Chrysene	mg/kg	0.1	<0.1
Benzo[b,k]fluoranthene	mg/kg	<0.2	<0.2
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.1	<0.1
Dibenzo[ah]anthracene	mg/kg	<0.1	<0.1
Benzo[ghi]perylene	mg/kg	<0.1	<0.1
Total PAHs	mg/kg	<2.25	<1.85
Nitrobenzene-d5	%	107	99
2-Fluorobiphenyl	%	104	101
<i>p</i> -Terphenyl-d14	%	101	105

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	103	95	91	105	101

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
HCb	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	94	101	96	95	94

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
HCb	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	96	96	93	99	100

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
HCb	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	0.5
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	0.93
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	101	103	94	97	91

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	96	98	93	104	96

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
HCb	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	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
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	110	99	95	113	91

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
HCb	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	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
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	0.3	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	0.2	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -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
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	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
Endrin Aldehyde	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
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	93	97	93	96	95

OC Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
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	mg/kg	<0.1	<0.1
<i>cis</i> -Chlordane	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>)	%	98	100

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
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
Bromofos 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
OP_Surrogate 1	%	103	95	91	105	101

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
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
Bromofos 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
OP_Surrogate 1	%	94	101	96	95	94

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
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
Bromofos 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
OP_Surrogate 1	%	96	96	93	99	100

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
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
Bromofos 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
OP_Surrogate 1	%	101	103	94	97	91

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
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
Bromofos 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
OP_Surrogate 1	%	96	98	93	104	96

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
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
Bromofos 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
OP_Surrogate 1	%	110	99	95	113	91

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
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
Bromofos 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
OP_Surrogate 1	%	93	97	93	96	95

OP Pesticides in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
Chlorpyrifos	mg/kg	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1
Bromofos Ethyl	mg/kg	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1
OP_Surrogate 1	%	98	100

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	103	95	91	105	101

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	94	101	96	95	94

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	96	96	93	99	100

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	101	103	94	97	91

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	96	98	93	104	96

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	110	99	95	113	91

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
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
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	93	97	93	96	95

PCBs in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
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	%	98	100

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-1 PIT1/0.1 Soil 25/10/2007	56177-2 PIT2/0.05 Soil 25/10/2007	56177-3 PIT3/0.4 Soil 25/10/2007	56177-4 PIT3/1.5 Soil 25/10/2007	56177-5 PIT3/2.5 Soil 25/10/2007
Arsenic	mg/kg	4	7	29	7	6
Cadmium	mg/kg	0.4	0.6	0.2	0.4	0.4
Chromium	mg/kg	12	14	2.1	11	12
Copper	mg/kg	5.9	41	4.5	11	5.7
Lead	mg/kg	21	76	11	12	13
Mercury	mg/kg	<0.05	<0.05	0.52	0.15	<0.05
Nickel	mg/kg	7.2	9.1	4.0	4.6	3.3
Zinc	mg/kg	29	1,000	9.3	75	18

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-6 PIT3/3.6 Soil 25/10/2007	56177-7 PIT6/0.05 Soil 25/10/2007	56177-8 PIT7/0.5 Soil 25/10/2007	56177-9 PIT7/3.0 Soil 25/10/2007	56177-10 PIT8/0.5 Soil 25/10/2007
Arsenic	mg/kg	5	5	4	10	10
Cadmium	mg/kg	0.4	0.5	0.1	0.5	0.6
Chromium	mg/kg	20	20	7.0	39	28
Copper	mg/kg	3.2	19	4.2	28	35
Lead	mg/kg	13	12	6	20	19
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	3.0	72	4.9	100	120
Zinc	mg/kg	8.5	60	19	90	100

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-11 PIT8/1.2 Soil 25/10/2007	56177-12 PIT9/0.7 Soil 25/10/2007	56177-13 PIT10/0.3 Soil 25/10/2007	56177-14 PIT10/4.0 Soil 25/10/2007	56177-15 PIT11/0.1 Soil 25/10/2007
Arsenic	mg/kg	4	6	9	14	3
Cadmium	mg/kg	0.5	0.5	0.7	0.6	0.1
Chromium	mg/kg	23	35	25	32	7.5
Copper	mg/kg	22	6.9	29	26	5.1
Lead	mg/kg	14	28	17	20	5
Mercury	mg/kg	<0.05	<0.05	0.05	<0.05	<0.05
Nickel	mg/kg	130	20	120	76	9.1
Zinc	mg/kg	99	23	90	70	18

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-16 PIT12/0.25 Soil 25/10/2007	56177-17 PIT13/0.1 Soil 25/10/2007	56177-18 PIT16/0.3 Soil 26/10/2007	56177-19 PIT17/0.1 Soil 26/10/2007	56177-20 PIT19/0.2 Soil 26/10/2007
Arsenic	mg/kg	<3	3	16	9	6
Cadmium	mg/kg	<0.1	<0.1	0.3	0.3	1.1
Chromium	mg/kg	7.0	5.1	15	1.2	31
Copper	mg/kg	1.2	1.5	17	8.7	17
Lead	mg/kg	2	2	14	17	19
Mercury	mg/kg	<0.05	<0.05	<0.05	0.15	<0.05
Nickel	mg/kg	2.4	1.6	33	3.8	12
Zinc	mg/kg	4.5	4.4	58	43	110

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-21 PIT20/0.2 Soil 26/10/2007	56177-22 PIT21/0.5 Soil 26/10/2007	56177-23 PIT23/0.1 Soil 26/10/2007	56177-24 PIT28/0.2 Soil 26/10/2007	56177-25 PIT28/0.6 Soil 26/10/2007
Arsenic	mg/kg	4	4	9	5	5
Cadmium	mg/kg	0.2	0.2	0.4	0.3	0.2
Chromium	mg/kg	6.2	5.6	10	7.6	6.3
Copper	mg/kg	3.2	3.1	5.0	9.5	5.2
Lead	mg/kg	13	14	23	16	9.9
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	mg/kg	3.9	2.9	10	11	11
Zinc	mg/kg	29	21	41	60	23

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-26 PIT30/0.5 Soil 29/10/2007	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007
Arsenic	mg/kg	11	5	5	12	7
Cadmium	mg/kg	0.4	0.5	1.2	0.5	0.3
Chromium	mg/kg	9.2	21	38	9.7	2.3
Copper	mg/kg	5.3	11	25	47	13
Lead	mg/kg	25	66	37	210	15
Mercury	mg/kg	<0.05	0.07	<0.05	0.19	0.12
Nickel	mg/kg	1.8	3.9	19	5.0	4.0
Zinc	mg/kg	27	310	550	120	35

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
Arsenic	mg/kg	4	3	4	8	<3
Cadmium	mg/kg	0.2	0.8	0.2	0.5	<0.1
Chromium	mg/kg	2.8	5.1	8.2	24	4.8
Copper	mg/kg	6.0	9.3	3.8	26	1.3
Lead	mg/kg	15	63	7	17	1
Mercury	mg/kg	0.06	<0.05	<0.05	0.05	<0.05
Nickel	mg/kg	1.9	3.2	4.9	100	1.5
Zinc	mg/kg	52	99	18	87	3.5

Acid Extractable Metals in Soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
Arsenic	mg/kg	19	4
Cadmium	mg/kg	0.3	0.2
Chromium	mg/kg	1.5	3.7
Copper	mg/kg	10	6.2
Lead	mg/kg	22	17
Mercury	mg/kg	0.14	0.08
Nickel	mg/kg	3.8	2.0
Zinc	mg/kg	72	66

Asbestos ID in soil Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-27 PIT32/0.1 Soil 29/10/2007	56177-28 PIT33/0.01 Soil 29/10/2007	56177-29 PIT34/0.01 Soil 29/10/2007	56177-30 PIT34/0.1 Soil 29/10/2007	56177-31 PIT35/0.2 Soil 29/10/2007
Sample Description		45g Soil, Sand, Plant Matter	49g Soil, Sand, Plant Matter	51g Soil, Sand, Plant Matter	46g Soil, Rocks	50g Soil, Rocks, Sand, Plant Matter
Asbestos ID in soil	-	No asbestos detected , however Synthetic Mineral Fibres detected*	No asbestos detected , however Synthetic Mineral Fibres detected*	No asbestos detected	No asbestos detected	No asbestos detected

Asbestos ID in materials Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-38 PIT32/0.1(Fi bro) Fibro 29/10/2007	56177-39 PIT33/0.01(Fibro) Fibro 29/10/2007	56177-40 PIT34/0.01(Fibro) Fibro 29/10/2007	56177-41 PIT35/0.2(Fi bro) Fibro 29/10/2007
Sample Description		Fibreboard Fragment 40x30x5m m	Fibreboard Fragment 90x80x5m m	Fibreboard Fragment 40x40x5m m	Fibreboard Fragment 50x50x3m m
Asbestos ID in materials	-	No asbestos detected	Chrysotile asbestos detected	Chrysotile asbestos detected	No asbestos detected

Moisture						
Our Reference:	UNITS	56177-1	56177-2	56177-3	56177-4	56177-5
Your Reference	-----	PIT1/0.1	PIT2/0.05	PIT3/0.4	PIT3/1.5	PIT3/2.5
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/10/2007	25/10/2007	25/10/2007	25/10/2007	25/10/2007
Moisture	%	18	5	10	15	19

Moisture						
Our Reference:	UNITS	56177-6	56177-7	56177-8	56177-9	56177-10
Your Reference	-----	PIT3/3.6	PIT6/0.05	PIT7/0.5	PIT7/3.0	PIT8/0.5
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/10/2007	25/10/2007	25/10/2007	25/10/2007	25/10/2007
Moisture	%	16	14	10	24	17

Moisture						
Our Reference:	UNITS	56177-11	56177-12	56177-13	56177-14	56177-15
Your Reference	-----	PIT8/1.2	PIT9/0.7	PIT10/0.3	PIT10/4.0	PIT11/0.1
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/10/2007	25/10/2007	25/10/2007	25/10/2007	25/10/2007
Moisture	%	21	12	20	23	10

Moisture						
Our Reference:	UNITS	56177-16	56177-17	56177-18	56177-19	56177-20
Your Reference	-----	PIT12/0.25	PIT13/0.1	PIT16/0.3	PIT17/0.1	PIT19/0.2
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/10/2007	25/10/2007	26/10/2007	26/10/2007	26/10/2007
Moisture	%	26	21	10	6	22

Moisture						
Our Reference:	UNITS	56177-21	56177-22	56177-23	56177-24	56177-25
Your Reference	-----	PIT20/0.2	PIT21/0.5	PIT23/0.1	PIT28/0.2	PIT28/0.6
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/10/2007	26/10/2007	26/10/2007	26/10/2007	26/10/2007
Moisture	%	6	7	10	15	15

Moisture						
Our Reference:	UNITS	56177-26	56177-27	56177-28	56177-29	56177-30
Your Reference	-----	PIT30/0.5	PIT32/0.1	PIT33/0.01	PIT34/0.01	PIT34/0.1
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		29/10/2007	29/10/2007	29/10/2007	29/10/2007	29/10/2007
Moisture	%	10	28	8	8	7

Moisture Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-31 PIT35/0.2 Soil 29/10/2007	56177-32 PIT36/0.2 Soil 29/10/2007	56177-33 D1 Soil 25/10/2007	56177-34 D2 Soil 25/10/2007	56177-35 D3 Soil 25/10/2007
Moisture	%	8	8	9	21	20

Moisture Our Reference: Your Reference Sample Type Date Sampled	UNITS ----- -----	56177-36 D4 Soil 26/10/2007	56177-37 D5 Soil 29/10/2007
Moisture	%	10	7

Method ID	Methodology Summary
SEO-017	BTEX/TRH C6-C9 - Determination by Purge and Trap Gas Chromatography with Flame Ionisation Detection (FID) and Photo Ionisation Detection (PID). The surrogate spike used is aaa-trifluorotoluene.
SEO-020	TRH - Determination of Total Recoverable Hydrocarbons by gas chromatography following extraction with DCM/Acetone for solids and DCM for liquids.
SEO-018	BTEX - Determination by purge and trap/ Gas Chromatography with MS Detection.
SEO-030	PAHs by GC/MS - Determination of Polynuclear Aromatic Hydrocarbons (PAH's) by Gas Chromatography / Mass Spectrometry following extraction with dichloromethane or dichloromethane/acetone. The surrogate spike used is p-Terphenyl-d14.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by sonication extraction using dichloromethane for waters or acetone / hexane for soils followed by Gas Chromatographic separation with Electron Capture Detection (GC/ECD). The surrogate spike used is 2,4,5,6-Tetrachloro-m-xylene.
SEM-010	Metals - Determination of various metals by ICP-AES following aqua regia digest.
SEM-005	Mercury - Determination of Mercury by Cold Vapour Generation Atomic Absorption Spectroscopy.
AN602	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques. Accreditation does not cover the identification of Synthetic Mineral Fibre.
AN002	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 $105 \pm 5^{\circ}\text{C}$.

QUALITY CONTROL TRH/BTEX in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-017	<20	56177-8	<20 <20	[NR]	[NR]
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	56177-8	<20 <20	56177-22	100%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	56177-8	<50 <50	56177-22	128%
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	56177-8	<50 <50	56177-22	97%
Benzene	mg/kg	0.5	SEO-018	<0.5	56177-8	<0.5 <0.5	[NR]	[NR]
Toluene	mg/kg	0.5	SEO-018	<0.5	56177-8	<0.5 <0.5	[NR]	[NR]
Ethylbenzene	mg/kg	0.5	SEO-018	<0.5	56177-8	<0.5 <0.5	[NR]	[NR]
Total Xylenes	mg/kg	1.5	SEO-018	<1.5	56177-8	<1.5 <1.5	[NR]	[NR]
BTEX Surrogate (%)	%	0	SEO-018	118	56177-8	115 129 RPD: 11	[NR]	[NR]
QUALITY CONTROL PAHs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Naphthalene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	83%
Acenaphthylene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	71%
Acenaphthene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	95%
Fluorene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	84%
Anthracene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	87%
Fluoranthene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	82%
Pyrene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	56177-15	87%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.2	56177-8	<0.2 <0.2	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	56177-8	<0.05 <0.05	56177-15	90%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Total PAHs	mg/kg	1.55	SEO-030	1.55	56177-8	<1.55 <1.55	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	96	56177-8	103 103 RPD: 0	56177-15	94%
2-Fluorobiphenyl	%	0	SEO-030	93	56177-8	100 102 RPD: 2	56177-15	94%
<i>p</i> -Terphenyl-d 14	%	0	SEO-030	94	56177-8	108 110 RPD: 2	56177-15	96%

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
HCB	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	113%
Aldrin	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	112%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	105%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	113%
Endrin	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	103%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	111%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xy lene (<i>Surrogate</i>)	%	0	SEO-005	98	56177-8	96 97 RPD: 1	56177-17	97%

QUALITY CONTROL OP Pesticides in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Chlorpyrifos	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	114%
Fenitrothion	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Bromofos Ethyl	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
OP_Surrogate 1	%	0	SEO-005	98	56177-8	96 97 RPD: 1	56177-17	97%
QUALITY CONTROL PCBs in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	56177-17	114%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	56177-8	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	0.90	56177-8	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	98	56177-8	96 97 RPD: 1	56177-17	97%
QUALITY CONTROL Acid Extractable Metals in Soil	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arsenic	mg/kg	3	SEM-010	<3	56177-1	4 4 RPD: 0	56177-2	86%
Cadmium	mg/kg	0.1	SEM-010	<0.1	56177-1	0.4 0.4 RPD: 0	56177-2	82%
Chromium	mg/kg	0.3	SEM-010	<0.3	56177-1	12 12 RPD: 0	56177-2	88%
Copper	mg/kg	0.5	SEM-010	<0.5	56177-1	5.9 6.0 RPD: 2	56177-2	77%
Lead	mg/kg	1	SEM-010	<1	56177-1	21 22 RPD: 5	[NR]	[NR]
Mercury	mg/kg	0.05	SEM-005	<0.05	56177-1	<0.05 <0.05	56177-2	80%
Nickel	mg/kg	0.5	SEM-010	<0.5	56177-1	7.2 7.1 RPD: 1	56177-2	87%
Zinc	mg/kg	0.3	SEM-010	<0.3	56177-1	29 28 RPD: 4	[NR]	[NR]

QUALITY CONTROL Moisture	UNITS	PQL	METHOD	Blank	
Moisture	%	1	AN002	<1	
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
TRH/BTEX in Soil			Base + Duplicate + %RPD		Duplicate + %RPD
TRH C ₆ - C ₉ P&T	mg/kg	56177-18	<20 <20	56177-19	133%
TRH C ₁₀ - C ₁₄	mg/kg	56177-18	<20 <20	[NR]	[NR]
TRH C ₁₅ - C ₂₈	mg/kg	56177-18	<50 <50	[NR]	[NR]
TRH C ₂₉ - C ₃₆	mg/kg	56177-18	<50 <50	[NR]	[NR]
Benzene	mg/kg	56177-18	<0.5 <0.5	56177-19	128%
Toluene	mg/kg	56177-18	<0.5 <0.5	56177-19	124%
Ethylbenzene	mg/kg	56177-18	<0.5 <0.5	56177-19	125%
Total Xylenes	mg/kg	56177-18	<1.5 <1.5	56177-19	128%
BTEX Surrogate (%)	%	56177-18	99 107 RPD: 8	56177-19	125%
QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
PAHs in Soil			Base + Duplicate + %RPD		Duplicate + %RPD
Naphthalene	mg/kg	56177-36	<0.1 <0.1	56177-22	89%
Acenaphthylene	mg/kg	56177-36	<0.1 <0.1	56177-22	80%
Acenaphthene	mg/kg	56177-36	<0.1 <0.1	56177-22	104%
Fluorene	mg/kg	56177-36	<0.1 <0.1	[NR]	[NR]
Phenanthrene	mg/kg	56177-36	0.4 0.4 RPD: 0	56177-22	90%
Anthracene	mg/kg	56177-36	<0.1 <0.1	56177-22	95%
Fluoranthene	mg/kg	56177-36	0.2 0.2 RPD: 0	56177-22	92%
Pyrene	mg/kg	56177-36	0.3 0.3 RPD: 0	56177-22	97%
Benzo[a]anthracene	mg/kg	56177-36	0.2 0.2 RPD: 0	[NR]	[NR]
Chrysene	mg/kg	56177-36	0.1 0.1 RPD: 0	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	56177-36	<0.2 <0.2	[NR]	[NR]
Benzo[a]pyrene	mg/kg	56177-36	<0.05 0.07	56177-22	98%
Indeno[123-cd]pyrene	mg/kg	56177-36	<0.1 <0.1	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	56177-36	<0.1 <0.1	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	56177-36	<0.1 <0.1	[NR]	[NR]
Total PAHs	mg/kg	56177-36	<2.25 <2.27	[NR]	[NR]
Nitrobenzene-d5	%	56177-36	107 99 RPD: 8	56177-22	103%
2-Fluorobiphenyl	%	56177-36	104 105 RPD: 1	56177-22	100%
<i>p</i> -Terphenyl-d14	%	56177-36	101 100 RPD: 1	56177-22	101%

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
OC Pesticides in Soil			Base + Duplicate + %RPD		Duplicate + %RPD
HCB	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	56177-18	<0.1 <0.1	56177-24	92%
Aldrin	mg/kg	56177-18	<0.1 <0.1	56177-24	92%
<i>beta</i> -BHC	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	56177-18	<0.1 <0.1	56177-24	91%
Heptachlor Epoxide	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Dieldrin	mg/kg	56177-18	<0.1 <0.1	56177-24	113%
Endrin	mg/kg	56177-18	<0.1 <0.1	56177-24	100%
<i>o,p</i> -DDD	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	56177-18	<0.1 <0.1	56177-24	97%
Endosulfan Sulphate	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Methoxychlor	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylen e (<i>Surrogate</i>)	%	56177-18	94 91 RPD: 3	56177-24	81%

QUALITY CONTROL OP Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Chlorpyrifos	mg/kg	56177-18	<0.1 <0.1	56177-24	98%
Fenitrothion	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Bromofos Ethyl	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Ethion	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
OP_Surrogate 1	%	56177-18	94 91 RPD: 3	56177-24	81%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arochlor 1016	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	56177-18	<0.1 <0.1	56177-24	114%
Arochlor 1262	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	56177-18	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	56177-18	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	56177-18	94 91 RPD: 3	56177-24	97%
QUALITY CONTROL Acid Extractable Metals in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arsenic	mg/kg	56177-11	4 4 RPD: 0	56177-22	94%
Cadmium	mg/kg	56177-11	0.5 0.6 RPD: 18	56177-22	95%
Chromium	mg/kg	56177-11	23 23 RPD: 0	56177-22	95%
Copper	mg/kg	56177-11	22 29 RPD: 27	56177-22	100%
Lead	mg/kg	56177-11	14 16 RPD: 13	56177-22	96%
Mercury	mg/kg	56177-11	<0.05 <0.05	56177-22	80%
Nickel	mg/kg	56177-11	130 210 RPD: 47	56177-22	93%
Zinc	mg/kg	56177-11	99 120 RPD: 19	56177-22	84%

QUALITY CONTROL TRH/BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C ₆ - C ₉ P&T	mg/kg	56177-28	<20 <20	[NR]	[NR]
TRH C ₁₀ - C ₁₄	mg/kg	56177-28	<20 <20	56177-15	92%
TRH C ₁₅ - C ₂₈	mg/kg	56177-28	<50 <50	56177-15	111%
TRH C ₂₉ - C ₃₆	mg/kg	56177-28	<50 <50	56177-15	100%
Benzene	mg/kg	56177-28	<0.5 <0.5	[NR]	[NR]
Toluene	mg/kg	56177-28	<0.5 <0.5	[NR]	[NR]
Ethylbenzene	mg/kg	56177-28	<0.5 <0.5	[NR]	[NR]
Total Xylenes	mg/kg	56177-28	<1.5 <1.5	[NR]	[NR]
BTEX Surrogate (%)	%	56177-28	104 110 RPD: 6	[NR]	[NR]
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Naphthalene	mg/kg	56177-28	<0.1 <0.1		
Acenaphthylene	mg/kg	56177-28	<0.1 <0.1		
Acenaphthene	mg/kg	56177-28	<0.1 <0.1		
Fluorene	mg/kg	56177-28	<0.1 <0.1		
Phenanthrene	mg/kg	56177-28	<0.1 0.1		
Anthracene	mg/kg	56177-28	<0.1 <0.1		
Fluoranthene	mg/kg	56177-28	0.1 0.2 RPD: 67		
Pyrene	mg/kg	56177-28	0.1 0.2 RPD: 67		
Benzo[a]anthracene	mg/kg	56177-28	<0.1 <0.1		
Chrysene	mg/kg	56177-28	<0.1 <0.1		
Benzo[b,k]fluoranthene	mg/kg	56177-28	<0.2 <0.2		
Benzo[a]pyrene	mg/kg	56177-28	0.06 0.08 RPD: 29		
Indeno[123-cd]pyrene	mg/kg	56177-28	<0.1 <0.1		
Dibenzo[ah]anthracene	mg/kg	56177-28	<0.1 <0.1		
Benzo[ghi]perylene	mg/kg	56177-28	<0.1 <0.1		
Total PAHs	mg/kg	56177-28	<1.56 <1.78		
Nitrobenzene-d5	%	56177-28	100 101 RPD: 1		
2-Fluorobiphenyl	%	56177-28	98 102 RPD: 4		
<i>p</i> -Terphenyl- <i>d</i> 14	%	56177-28	102 105 RPD: 3		

QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
HCB	mg/kg	56177-28	<0.1 <0.1
<i>alpha</i> -BHC	mg/kg	56177-28	<0.1 <0.1
gamma-BHC (Lindane)	mg/kg	56177-28	<0.1 <0.1
Heptachlor	mg/kg	56177-28	<0.1 <0.1
Aldrin	mg/kg	56177-28	<0.1 <0.1
<i>beta</i> -BHC	mg/kg	56177-28	<0.1 <0.1
<i>delta</i> -BHC	mg/kg	56177-28	<0.1 <0.1
Heptachlor Epoxide	mg/kg	56177-28	<0.1 <0.1
<i>o,p</i> -DDE	mg/kg	56177-28	<0.1 <0.1
<i>alpha</i> -Endosulfan	mg/kg	56177-28	<0.1 <0.1
<i>trans</i> -Chlordane	mg/kg	56177-28	<0.1 <0.1
<i>cis</i> -Chlordane	mg/kg	56177-28	<0.1 <0.1
<i>trans</i> -Nonachlor	mg/kg	56177-28	<0.1 <0.1
<i>p,p</i> -DDE	mg/kg	56177-28	<0.1 <0.1
Dieldrin	mg/kg	56177-28	<0.1 <0.1
Endrin	mg/kg	56177-28	<0.1 <0.1
<i>o,p</i> -DDD	mg/kg	56177-28	<0.1 <0.1
<i>o,p</i> -DDT	mg/kg	56177-28	<0.1 <0.1
<i>beta</i> -Endosulfan	mg/kg	56177-28	<0.1 <0.1
<i>p,p</i> -DDD	mg/kg	56177-28	<0.1 <0.1
<i>p,p</i> -DDT	mg/kg	56177-28	<0.1 <0.1
Endosulfan Sulphate	mg/kg	56177-28	<0.1 <0.1
Endrin Aldehyde	mg/kg	56177-28	<0.1 <0.1
Methoxychlor	mg/kg	56177-28	<0.1 <0.1
Endrin Ketone	mg/kg	56177-28	<0.1 <0.1
2,4,5,6-Tetrachloro-m-xylen e (<i>Surrogate</i>)	%	56177-28	95 94 RPD: 1

QUALITY CONTROL OP Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Chlorpyrifos	mg/kg	56177-28	<0.1 <0.1		
Fenitrothion	mg/kg	56177-28	<0.1 <0.1		
Bromofos Ethyl	mg/kg	56177-28	<0.1 <0.1		
Ethion	mg/kg	56177-28	<0.1 <0.1		
OP_Surrogate 1	%	56177-28	95 94 RPD: 1		
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD		
Arochlor 1016	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1221	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1232	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1242	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1248	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1254	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1260	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1262	mg/kg	56177-28	<0.1 <0.1		
Arochlor 1268	mg/kg	56177-28	<0.1 <0.1		
Total Positive PCB	mg/kg	56177-28	<0.90 <0.90		
PCB_Surrogate 1	%	56177-28	95 94 RPD: 1		
QUALITY CONTROL Acid Extractable Metals in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Arsenic	mg/kg	56177-21	4 4 RPD: 0	[NR]	[NR]
Cadmium	mg/kg	56177-21	0.2 0.2 RPD: 0	[NR]	[NR]
Chromium	mg/kg	56177-21	6.2 5.7 RPD: 8	[NR]	[NR]
Copper	mg/kg	56177-21	3.2 3.1 RPD: 3	[NR]	[NR]
Lead	mg/kg	56177-21	13 12 RPD: 8	LCS	98%
Mercury	mg/kg	56177-21	<0.05 <0.05	[NR]	[NR]
Nickel	mg/kg	56177-21	3.9 3.9 RPD: 0	[NR]	[NR]
Zinc	mg/kg	56177-21	29 28 RPD: 4	LCS	94%

QUALITY CONTROL TRH/BTEX in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
TRH C ₆ - C ₉ P&T	mg/kg	56177-36	<20 [N/T]
TRH C ₁₀ - C ₁₄	mg/kg	56177-36	<20 <20
TRH C ₁₅ - C ₂₈	mg/kg	56177-36	290 240 RPD: 19
TRH C ₂₉ - C ₃₆	mg/kg	56177-36	100 100 RPD: 0
Benzene	mg/kg	56177-36	<0.5 [N/T]
Toluene	mg/kg	56177-36	<0.5 [N/T]
Ethylbenzene	mg/kg	56177-36	<0.5 [N/T]
Total Xylenes	mg/kg	56177-36	<1.5 [N/T]
BTEX Surrogate (%)	%	56177-36	96 [N/T]
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Naphthalene	mg/kg	56177-18	0.1 0.1 RPD: 0
Acenaphthylene	mg/kg	56177-18	<0.1 <0.1
Acenaphthene	mg/kg	56177-18	<0.1 <0.1
Fluorene	mg/kg	56177-18	<0.1 <0.1
Phenanthrene	mg/kg	56177-18	0.3 0.3 RPD: 0
Anthracene	mg/kg	56177-18	<0.1 <0.1
Fluoranthene	mg/kg	56177-18	0.1 0.1 RPD: 0
Pyrene	mg/kg	56177-18	0.1 0.1 RPD: 0
Benzo[a]anthracene	mg/kg	56177-18	<0.1 <0.1
Chrysene	mg/kg	56177-18	0.1 <0.1
Benzo[b,k]fluoranthene	mg/kg	56177-18	<0.2 <0.2
Benzo[a]pyrene	mg/kg	56177-18	<0.05 <0.05
Indeno[123-cd]pyrene	mg/kg	56177-18	<0.1 <0.1
Dibenzo[ah]anthracene	mg/kg	56177-18	<0.1 <0.1
Benzo[ghi]perylene	mg/kg	56177-18	<0.1 <0.1
Total PAHs	mg/kg	56177-18	<1.75 <1.74
Nitrobenzene-d5	%	56177-18	91 102 RPD: 11
2-Fluorobiphenyl	%	56177-18	93 104 RPD: 11
<i>p</i> -Terphenyl-d14	%	56177-18	93 107 RPD: 14

QUALITY CONTROL OC Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
HCB	mg/kg	56177-36	<0.1 <0.1
<i>alpha</i> -BHC	mg/kg	56177-36	<0.1 <0.1
gamma-BHC (Lindane)	mg/kg	56177-36	<0.1 <0.1
Heptachlor	mg/kg	56177-36	<0.1 <0.1
Aldrin	mg/kg	56177-36	<0.1 <0.1
<i>beta</i> -BHC	mg/kg	56177-36	<0.1 <0.1
<i>delta</i> -BHC	mg/kg	56177-36	<0.1 <0.1
Heptachlor Epoxide	mg/kg	56177-36	<0.1 <0.1
<i>o,p</i> -DDE	mg/kg	56177-36	<0.1 <0.1
<i>alpha</i> -Endosulfan	mg/kg	56177-36	<0.1 <0.1
<i>trans</i> -Chlordane	mg/kg	56177-36	<0.1 <0.1
<i>cis</i> -Chlordane	mg/kg	56177-36	<0.1 <0.1
<i>trans</i> -Nonachlor	mg/kg	56177-36	<0.1 <0.1
<i>p,p</i> -DDE	mg/kg	56177-36	<0.1 <0.1
Dieldrin	mg/kg	56177-36	<0.1 <0.1
Endrin	mg/kg	56177-36	<0.1 <0.1
<i>o,p</i> -DDD	mg/kg	56177-36	<0.1 <0.1
<i>o,p</i> -DDT	mg/kg	56177-36	<0.1 <0.1
<i>beta</i> -Endosulfan	mg/kg	56177-36	<0.1 <0.1
<i>p,p</i> -DDD	mg/kg	56177-36	<0.1 <0.1
<i>p,p</i> -DDT	mg/kg	56177-36	<0.1 <0.1
Endosulfan Sulphate	mg/kg	56177-36	<0.1 <0.1
Endrin Aldehyde	mg/kg	56177-36	<0.1 <0.1
Methoxychlor	mg/kg	56177-36	<0.1 <0.1
Endrin Ketone	mg/kg	56177-36	<0.1 <0.1
2,4,5,6-Tetrachloro-m-xylen e (<i>Surrogate</i>)	%	56177-36	98 101 RPD: 3

QUALITY CONTROL OP Pesticides in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Chlorpyrifos	mg/kg	56177-36	<0.1 <0.1
Fenitrothion	mg/kg	56177-36	<0.1 <0.1
Bromofos Ethyl	mg/kg	56177-36	<0.1 <0.1
Ethion	mg/kg	56177-36	<0.1 <0.1
OP_Surrogate 1	%	56177-36	98 101 RPD: 3
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Arochlor 1016	mg/kg	56177-36	<0.1 <0.1
Arochlor 1221	mg/kg	56177-36	<0.1 <0.1
Arochlor 1232	mg/kg	56177-36	<0.1 <0.1
Arochlor 1242	mg/kg	56177-36	<0.1 <0.1
Arochlor 1248	mg/kg	56177-36	<0.1 <0.1
Arochlor 1254	mg/kg	56177-36	<0.1 <0.1
Arochlor 1260	mg/kg	56177-36	<0.1 <0.1
Arochlor 1262	mg/kg	56177-36	<0.1 <0.1
Arochlor 1268	mg/kg	56177-36	<0.1 <0.1
Total Positive PCB	mg/kg	56177-36	<0.90 <0.90
PCB_Surrogate 1	%	56177-36	98 101 RPD: 3
QUALITY CONTROL Acid Extractable Metals in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
Arsenic	mg/kg	56177-31	4 4 RPD: 0
Cadmium	mg/kg	56177-31	0.2 0.3 RPD: 40
Chromium	mg/kg	56177-31	2.8 3.6 RPD: 25
Copper	mg/kg	56177-31	6.0 7.1 RPD: 17
Lead	mg/kg	56177-31	15 14 RPD: 7
Mercury	mg/kg	56177-31	0.06 0.07 RPD: 15
Nickel	mg/kg	56177-31	1.9 2.7 RPD: 35
Zinc	mg/kg	56177-31	52 57 RPD: 9

Result Codes

[INS]	: Insufficient Sample for this test	[HBG]	: Results not Reported due to High Background Interference
[NR]	: Not Requested	*	: Not part of NATA Accreditation
[NT]	: Not tested	[N/A]	: Not Applicable

Result Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.
Asbestos analysed by Wonnies Condos.

PAH - The LOR raised for samples 1, 21, 26 & 32 due to sample matrix interference.

Date Organics extraction commenced: 02/11/07

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).

This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

Quality Control Protocol

Reagent Blank: Sample free reagents carried through the preparation/extraction/digestion procedure and analysed at the beginning of every sample batch analysis. For larger projects, a reagent blank is prepared and analysed with every 20 samples.

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

Matrix Spike Duplicates: Sample replicates spiked with identical concentrations of target analyte(s). The spiking occurs during the sample preparation and prior to the extraction/digestion procedure. They are used to document the precision and bias of a method in a given sample matrix. Where there is not enough sample available to prepare a spiked sample, another known soil/sand or water (or Milli-Q water) may be used. A duplicate spiked sample is prepared at least every 20 samples.

Surrogate Spike: Added to all samples requiring analysis for organics (where relevant) prior to extraction. Used to determine the extraction efficiency. They are organic compounds which are similar to the target analyte(s) in chemical composition and behaviour in the analytical process, but which are not normally found in environmental samples.

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

Control Standards: Prepared from a source independent of the calibration standards. At least one control standard is included in each run to confirm calibration validity.

Additional QC Samples: A calibration standard and blank are run after every 20 samples of an instrumental analysis run to assess analytical drift.

14 November 2007

TEST REPORT

Douglas Partners Pty Ltd

Box 324

Hunter Region Mail Centre

NSW 2310

Your Reference: 39664A, Black Hill

Report Number: 56324

Attention: Patrick Heads

Dear Patrick

The following samples were received from you on the date indicated.

Samples:	Qty.	5 Soils
Date of Receipt of Samples:		7/11/07
Date of Receipt of Instructions:		7/11/07
Date Preliminary Report Emailed:		Not Issued

These samples were analysed in accordance with your written instructions.

A copy of the instructions is attached with the analytical report.

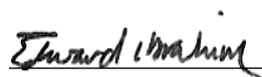
The results and associated quality control are contained in the following pages of this report.

Unless otherwise stated, solid samples are expressed on a dry weight basis (moisture has been supplied for your information only), air and liquid samples as received.

Should you have any queries regarding this report please contact the undersigned.

Yours faithfully

SGS ENVIRONMENTAL SERVICES



Edward Ibrahim

Lab Manager



WORLD RECOGNISED
ACCREDITATION

This document is issued in accordance with NATA's accreditation requirements. Accredited for compliance with ISO/IEC 17025. NATA accredited laboratory 2562 (4354). This report must not be reproduced except in full.

Page 1 of 6

Inorganics						
Our Reference:	UNITS	56324-1	56324-2	56324-3	56324-4	56324-5
Your Reference	-----	PIT 12/0.5	PIT 22/0.2	PIT 26/0.4	PIT 34/0.5	PIT 38/0.2
Sample Type	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		25/10/2007	26/10/2007	26/10/2007	29/10/2007	29/10/2007
Sulphate, SO ₄ 1:5 soil:water	mg/kg	310	32	130	210	87
Chloride, Cl 1:5 soil:water	mg/kg	260	33	63	87	110
pH 1:5 soil:water	pH Units	5.4	5.9	5.5	5.0	5.1

Moisture	UNITS	56324-1	56324-2	56324-3	56324-4	56324-5
Our Reference:	-----	PIT 12/0.5	PIT 22/0.2	PIT 26/0.4	PIT 34/0.5	PIT 38/0.2
Your Reference	-----	Soil	Soil	Soil	Soil	Soil
Sample Type		25/10/2007	26/10/2007	26/10/2007	29/10/2007	29/10/2007
Date Sampled						
Moisture	%	17	5	20	19	22

Method ID	Methodology Summary
SEI-038	Anions - a range of Anions are determined by Ion Chromatography, in accordance with APHA 20th ED, 4110-B.
AN101	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
AN002	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	PQL	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Inorganics								
Sulphate, SO ₄ 1:5 soil:water	mg/kg	2	SEI-038	<2	[NT]	[NT]	LCS	102 [N/T]
Chloride, Cl 1:5 soil:water	mg/kg	0.5	SEI-038	<0.5	[NT]	[NT]	LCS	105 [N/T]
pH 1:5 soil:water	pH Units	0	AN101	[NT]	[NT]	[NT]	[NR]	[NR]
QUALITY CONTROL	UNITS	PQL	METHOD	Blank				
Moisture								
Moisture	%	1	AN002	<1				

Result Codes

[INS]	: Insufficient Sample for this test	[HBG]	: Results not Reported due to High Background Interference
[NR]	: Not Requested	*	: Not part of NATA Accreditation
[NT]	: Not tested	[N/A]	: Not Applicable

Result Comments

Date Organics extraction commenced: N/A

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Dioxins/Furans* and PAH in XAD and PUF).

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A duplicate is prepared at least every 10 samples.

Matrix Spike Duplicates: Sample replicates spiked with identical concentrations of target analyte(s). The spiking occurs during the sample preparation and prior to the extraction/digestion procedure. They are used to document the precision and bias of a method in a given sample matrix. Where there is not enough sample available to prepare a spiked sample, another known soil/sand or water (or Milli-Q water) may be used. A duplicate spiked sample is prepared at least every 20 samples.

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Additional QC Samples: A calibration standard and blank are run after every 20 samples of an instrumental analysis run to assess analytical drift.

ANALYTICAL REPORT

TO: **Douglas Partners**

ATT: **Mr. Patrick Heads**

OUR REF: **HL7021**

DATE RECEIVED: **07-Nov-07**

DATE REPORTED: **22-Nov-07**

Black Hill Combustability

Sample ID	Sample Mass (grams)	Total Moisture % (ar)	Air Dry Basis	
			-212 micron Mass %	Total Incombustibles %
Pit 4/0.3	221.4	4.7	1.4	84.6
Pit 5/0.05	291.3	11.0	8.9	89.7
Pit 8/0.1	256.3	7.0	2.3	90.3
Pit 10/1.0	388.2	19.5	2.8	92.2
Pit 14/0.05	253.4	6.4	3.7	86.5
Pit 16/0.05	299.6	7.6	10.8	92.0
Pit 18/0.2	249.8	5.4	4.2	79.0
Pit 32/0.25	297.3	5.1	17.8	89.0

Signed on Behalf of
SGS Australia Pty. Ltd
Muswellbrook



Sample Preparation / Analysis were performed in
accordance with the following procedures:

MDG 3006 MRT 5
Guideline for Coal Dust Prevention and Suppression

Client: COAL + ALLIED
Project: LOWER HUNTER LANDS DEVEL. Project No: 39664A
Location: BLACK HILL

Field								DP Office	Despatch	Notes
Sample ID	Depth (m)	Duplicate/ Replicate Sample	Sample Type S-soil W-water	Container Type G-glass P-plastic	Sampling			Received by: <i>PH</i> Date: <u>25/10/07</u>	☒ <u>GAS</u> Date: <u>30/10/07</u>	
					By	Date	Time	Storage Location*		
Pit 1	0.1		S	G/P	PH	25/10/07	am	fridge	✓	
Pit 2	0.5								✓	
	0.05									
	0.3									
Pit 3	0.4								✓	
	1.5								✓	
	2.5								✓	
	3.6								✓	
Pit 4	0.3									
Pit 5	0.05									
Pit 6	0.05								✓	
Pit 7	0.5	D1							✓ + D1	
	3.0								✓	
Pit 8	0.1						pm			
	0.5								✓	
	1.2								✓	
Pit 9	0.1									
	0.7								✓	
Pit 10	0.3	D2							✓ + D2	
	1.0									

Default containers for soil: glass = clear 125/250 mL with teflon liner, plastic = press seal bag

*Default storage: Glass containers in fridge, plastic containers shelved, all water samples in fridge

[illegible]

Rev4/Feb 2005

Client:

Project:

Location:

[illegible]

*Default storage: Glass containers in fridge, plastic containers shelved, all water samples in fridge

Client: COAL + ALLIED
Project: LOWER HUNTER LANDS DEVEL. Project No: 39664A
Location: BLACK HILL

[illegible]

Default containers for soil: glass = clear 125/250 mL with teflon liner, plastic = press seal bag

*Default storage: Glass containers in fridge, plastic containers shelved, all water samples in fridge

5283-86

CHAIN OF CUSTODY DESPATCH SHEET

Project Name: BLACK HILL
Project No: 39664A DP Order No: 71295
DP Contact Person: PATRICK HEADS
Prior Storage: esky (fridge / shelved (circle))

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400
Attn: Angela

Sample ID	Date Sampled	Sample Type S-soil W-water	Lab ID	Analytes										TCLP	Notes
				TRA	BTEX	PAH	PCB	OCF	OPP	Metals #					
P11/0-1	25/10/07	S	1	✓	✓	✓	✓	✓	✓	✓					
P12/0-05			2	✓	✓	✓	✓	✓	✓	✓					
P13/0-4			3	✓	✓	✓	✓	✓	✓	✓					
P13/1-5			4	✓	✓	✓	✓	✓	✓	✓					
P13/2-5			5	✓	✓	✓	✓	✓	✓	✓					
P13/3-6			6	✓	✓	✓	✓	✓	✓	✓					
P16/0-05			7	✓	✓	✓	✓	✓	✓	✓					
P17/0-5			8	✓	✓	✓	✓	✓	✓	✓					
P17/3-0			9	✓	✓	✓	✓	✓	✓	✓					
P18/0-5			10	✓	✓	✓	✓	✓	✓	✓					
P18/1-2			11	✓	✓	✓	✓	✓	✓	✓					
P19/0-7			12	✓	✓	✓	✓	✓	✓	✓					
PQL (S)		mg/kg													
PQL (W)		mg/L													

SGS

Received 31/10/07
By [Signature]
Time 10:10 am
Samples intact Yes
Ice/Cooler Pack Yes
Comments: 86177

PQL = practical quantitation limit *As per Laboratory Method (Detection Limit)
- Metals to Analyse (Please circle): As Cd Cr Cu Pb Zn Hg Ni Other
Date relinquished: 30/10/07
Total number of samples in container: 41
Results required by: 7/11/07
TAT (Circle): Standard 72 hr 48hr 24hr

SAMPLES RECEIVED
Please sign and date to acknowledge receipt of samples and return by fax
Signature: [Signature]
Date: 31/10/07 Lab Ref: 86177

Send results to:
Douglas Partners Pty Ltd
Address:
BOX 324 Hunter Region Mail Centre
NSW 2310
Fax: (02) 4960 9601

Project Name: BLACK HILL
Project No: 39004A DP Order No: 71295
DP Contact Person: PATRICK HEWES
Prior Storage: esky (fridge) / shelved (circle)

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400
Attn: Angela

Sample ID	Date Sampled	Sample Type S-soil W-water	Lab ID	Analytes											TCLP	Notes
				TRH	BTEX	PAH	Pcb	OCF	OPP	Metals						
P110/0-3	25/10/07	S	13	✓	✓	✓	✓	✓	✓	✓						
P110/4-0	↓	↓	14	✓	✓	✓	✓	✓	✓	✓						
P111/0-1	↓	↓	15	✓	✓	✓	✓	✓	✓	✓						
P112/0-25	↓	↓	16	✓	✓	✓	✓	✓	✓	✓						
P113/0-1	↓	↓	17	✓	✓	✓	✓	✓	✓	✓						
P116/0-3	26/10/07	↓	18	✓	✓	✓	✓	✓	✓	✓						
P117/0-1	↓	↓	19	✓	✓	✓	✓	✓	✓	✓						
P119/0-2	↓	↓	20	✓	✓	✓	✓	✓	✓	✓						
P120/0-2	↓	↓	21	✓	✓	✓	✓	✓	✓	✓						
P121/0-5	↓	↓	22	✓	✓	✓	✓	✓	✓	✓						
P123/0-1	↓	↓	23	✓	✓	✓	✓	✓	✓	✓						
P128/0-2	↓	↓	24	✓	✓	✓	✓	✓	✓	✓						
PQL (S)		mg/kg														
PQL (W)		mg/L														

PQL = practical quantitation limit *As per Laboratory Method (Detection Limit)
- Metals to Analyse (Please circle): As Cd Cr Cu Pb Zn Hg Ni Other
Date relinquished: 30/10/07
Total number of samples in container: 41
Results required by: 7/11/07
TAT (Circle): Standard 72 hr 48hr 24hr

SAMPLES RECEIVED
Please sign and date to acknowledge receipt of samples and return by fax
Signature: [Signature]
Date: 31/10 Lab Ref: 56177

Send results to:
Douglas Partners Pty Ltd
Address:
BOX 324 Hunter Region Mail Centre
NSW 2310
Fax: (02) 4960 9601

Project Name: BLACK HILL
Project No: 39064A DP Order No: 71295
DP Contact Person: PATRICK HEADS
Prior Storage: esky (fridge) / shelved (circle)

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400
Attn: Angela

Sample ID	Date Sampled	Sample Type S-soil W-water	Lab ID	Analytes												TCLP	Notes
				TRH	BTEX	PAH	PCB	OCF	OPP	Metals #	Asbestos						
P15 28/0-6	26/10/07	S	28	✓	✓	✓	✓	✓	✓	✓	✓						
P15 30/0-5	29/10/07		26	✓	✓	✓	✓	✓	✓	✓	✓						
P15 32/0-1			27	✓	✓	✓	✓	✓	✓	✓	✓	✓					
P15 33/0-0			28	✓	✓	✓	✓	✓	✓	✓	✓	✓					
P15 34/0-0			29	✓	✓	✓	✓	✓	✓	✓	✓	✓					
P15 34/0-1			30	✓	✓	✓	✓	✓	✓	✓	✓	✓					
P15 35/0-2			31	✓	✓	✓	✓	✓	✓	✓	✓	✓					
P15 36/0-2			32	✓	✓	✓	✓	✓	✓	✓	✓	✓					
D1	25/10/07		33	✓	✓	✓	✓	✓	✓	✓	✓	✓					
D2	25/10/07		34	✓	✓	✓	✓	✓	✓	✓	✓	✓					
D3	25/10/07		35	✓	✓	✓	✓	✓	✓	✓	✓	✓					
D4	26/10/07		36	✓	✓	✓	✓	✓	✓	✓	✓	✓					
PQL (S)		mg/kg															
PQL (W)		mg/L															

PQL = practical quantitation limit *As per Laboratory Method (Detection Limit)
- Metals to Analyse (Please circle): As Cd Cr Cu Pb Zn Hg Ni Other
Date relinquished: 30/10/07
Total number of samples in container: 41
Results required by: 7/11/07
TAT (Circle): Standard 72 hr 48hr 24hr

SAMPLES RECEIVED
Please sign and date to acknowledge receipt of samples and return by fax
Signature: [Signature]
Date: 21/10 Lab Ref: 4677

Send results to:
Douglas Partners Pty Ltd
Address:
BOX 324 Hunter Region Mail Centre
NSW 2310
Fax: (02) 4960 9601



Project Name: BLACK HILL
Project No: 39664A DP Order No: 71295
DP Contact Person: PATRICK HEARS
Prior Storage: esky (fridge) / shelved (circle)

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400.....
Attn: Angela.....

M:/Environmental/QA-QC/AmendedC-O-C.doc

5334

CHAIN OF CUSTODY DESPATCH SHEET

Project Name: BLACK HILL
Project No: 32604A DP Order No:
DP Contact Person: PATRICK HEADS
Prior Storage: esky / fridge / shelved (circle).....

To: SGS Australia PTY LTD
Unit 16/33 Maddox Street
ALEXANDRIA NSW 2015
Ph: (02) 8594 0400.....
Attn: Angela

Sample ID	Date Sampled	Sample Type S-soil W-water	Lab ID	Analytes										TCLP	Notes	
				Sulphate	Chloride	PH										
P12/0.5	25/10/07	S	1	✓	✓	✓										
P12/0.2	26/10/07	↓	2	✓	✓	✓										
P12/0.4	26/10/07	↓	3	✓	✓	✓										
P13/0.5	29/10/07	↓	4	✓	✓	✓										
P13/0.2	29/10/07	↓	5	✓	✓	✓										
PQL (S)		mg/kg														
PQL (W)		mg/L														

SGS

Received: 7/11/07

By: [Signature]

Time: 8:10 am

Samples intact: yes/no

Ice/Cooler Pack: yes/no

Comments: 56324

PQL = practical quantitation limit *As per Laboratory Method (Detection Limit)

- Metals to Analyse (Please circle): As Cd Cr Cu Pb Zn Hg Ni Other

Date relinquished: 2/11/07

Total number of samples in container: 5

Results required by: 14/11/07

TAT (Circle): Standard 72 hr 48hr 24hr

SAMPLES RECEIVED

Please sign and date to acknowledge receipt of samples and return by fax

Signature: [Signature]

Date: 7/11/07 Lab Ref: 56324

Send results to:

Douglas Partners Pty Ltd

Address:

BOX 324 Hunter Region Mail Centre

NSW 2310

Fax: (02) 4960 9601



To: SGS Australia PTY LTD
LOT 3 BLAKEFIELD ROAD
MUSWELLBROOK NSW 2333
Ph: (02) 6542 0004
Attn: Simon HARMER

M:/Environmental/QA-QC/AmendedC-O-C.doc



SGS Environmental Services
Unit 16, 33 Maddox St. Alexandria NSW 2015
Telephone Number : (+61 2) 8594 0400
Fax Number : (+61 2) 8594 0499

SAMPLE RECEIPT CONFIRMATION

COMPANY	:	Douglas Partners Pty Ltd	FAX NO.	:	02 4960 9601
ATTENTION	:	Patrick Heads	PAGES	:	1
FROM	:	Sample Receipt	DATE	:	1/11/07

This is to confirm that samples for Project **39664A, Black Hill** were received on **31/10/07** the results are expected to be ready on **7/11/2007**. Please quote SGS Reference: **56177** when making enquiries regarding this project. Please refer to below which details information about the integrity of the samples and other useful information.

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

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

Comments:

Terms and conditions are available from www.au.sgs.com

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

The contents of this facsimile (including attachments) are privileged and confidential. Any unauthorised use of the contents is expressly prohibited. If you have received the document in error, please advise by telephone (reverse charges) immediately then shred the document. Thank you.



SGS Environmental Services
Unit 16, 33 Maddox St. Alexandria NSW 2015
Telephone Number : (+61 2) 8594 0400
Fax Number : (+61 2) 8594 0499

SAMPLE RECEIPT CONFIRMATION

COMPANY	:	Douglas Partners Pty Ltd	FAX NO.	:	02 4960 9601
ATTENTION	:	Patrick Heads	PAGES	:	1
FROM	:	Sample Receipt	DATE	:	8/11/07

This is to confirm that samples for Project **39664A, Black Hill** were received on **7/11/07** the results are expected to be ready on **14/11/2007**. Please quote SGS Reference: **56324** when making enquiries regarding this project. Please refer to below which details information about the integrity of the samples and other useful information.

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

Samples received in good order:	YES
Samples received in correct containers:	YES
Samples received without headspace:	N/A
Sufficient quantity supplied:	YES
Upon receipt sample temperature:	Ambient
Cooling Method:	None
Sample containers provided by:	Customer
Samples Clearly Labelled:	YES
Turnaround time requested:	Standard
Completed documentation received:	YES

Comments:

Terms and conditions are available from www.au.sgs.com

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

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APPENDIX C

QA/QC

**QUALITY ASSURANCE/QUALITY CONTROL
FOR CONTAMINATION ASSESSMENT
BLACK HILL**

Quality Assurance (QA) was maintained by:

- compliance with a Project Quality Plan written for the objectives of the study;
- using qualified engineers to undertake the field supervision and sampling;
- following the Douglas Partners Pty Ltd (DP) operating procedures for sampling, field testing and decontamination as presented in Table 1;
- using NATA registered laboratories for sample testing that generally utilise standard laboratory methods of the US EPA, the APHA and NSW EPA.

Table 1 - Field Procedures

Abbreviation	Procedure Name
FPM LOG	Logging
FPM DECONT	Decontamination of Personnel and Equipment
FPM ENVID	Sample Identification, Handling, Transport and Storage of Contaminated Samples
FPM PIDETC	Operation of Field Analysers
FPM ENVSAMP	Sampling of Contaminated Soils

(from DP Field Procedures Manual)

Quality Control (QC) of the laboratory programme was achieved by the following means:

- check replicate - a specific sample was split in the field, placed in separate containers and labelled with different sample numbers, and sent to the laboratory for analysis;
- method blanks - the laboratory ran reagent blanks to confirm the equipment and standards used were uncontaminated;
- laboratory duplicates - the laboratory split samples internally and conducted tests on separate extracts;
- laboratory spikes - samples were spiked by the laboratory with a known concentration of contaminants and subsequently tested for percent recovery.

DISCUSSION

A. Check Replicate

The Relative Percent Difference (RPD) between replicate results is used as a measure of laboratory reproducibility and is given by the following:

$$RPD = \frac{ABS(\text{Replicate result 1} - \text{Replicate result 2})}{(\text{Replicate result 1} + \text{Replicate result 2})/2} \times 100$$

The RPD can have a value between 0% and 200%. An RPD data quality objective of up to 50% is generally considered to be acceptable for organic analysis, and 35% for inorganics (i.e. Metals).

A summary of the results of the soil replicate QA/QC testing is provided in Table 2.

Table 2 - Results of Quality Control Analysis

Analyte		Pit 7/0.5	D1	RPD (%)	Pit 10/0.3	D2	RPD (%)	Pit 13/0.1	D3	RPD (%)	Pit 17/0.1	D4	RPD (%)	Pit 35/0.2	D5	RPD (%)
Metals	As	4	4	0	9	8	12	3	<PQL	N/A	9	19	71	4	4	0
	Cd	0.1	0.2	67	0.7	0.5	33	<PQL	<PQL	N/A	0.3	0.3	0	0.2	0.2	0
	Cr	7	8.2	16	25	24	4	5.1	4.8	6	1.2	1.5	22	2.8	3.7	28
	Cu	4.2	3.8	10	29	26	11	1.5	1.3	14	8.7	10	14	6	6.2	3
	Pb	6	7	15	17	17	0	2	1	67	17	22	26	15	17	13
	Hg	<PQL	<PQL	N/A	0.05	0.05	0	<PQL	<PQL	N/A	0.15	0.14	7	0.06	0.08	29
	Ni	4.9	4.9	0	120	100	18	1.6	1.5	6	3.8	3.8	0	1.9	2	5
	Zn	19	18	5	90	87	3	4.4	3.5	23	43	72	50	52	66	24
TRH	C ₆ - C ₉	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	C ₁₀ - C ₁₄	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	C ₁₅ - C ₂₈	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	200	290	37	150	130	14
	C ₂₉ - C ₃₆	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	60	100	50	120	91	27
BTEX	Benzene	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	Toluene	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	Ethyl Benzene	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	Xylene	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
PAH	Total PAHs	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	0.8	1.2	40	0.6	0.6	0
	Benzo(a)pyrene	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
OCPs	Aldrin + Dieldrin	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	Chlordane	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	DDT	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
	Heptachlor	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
OPPs		<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A
PCBs		<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A	<PQL	<PQL	N/A

Results expressed in mg/kg on dry weight basis
 PQL - Practical Quantitation Limit
 N/A - Not Applicable

RPDs ranged from 0% to 71%. The elevated RPDs are considered to be due to the heterogeneity of the fill material (detailed sample descriptions contained in the test report sheets in Appendix A), and the results are considered to be within the acceptable limits.

B. Method Blanks

All method blanks returned results lower than the laboratory detection limit, therefore are acceptable.

C. Laboratory Replicates

The average RPD for individual contaminants generally ranged from 0% to 50%, with the exception of two RPD's of 67% for the PAHs fluoranthene and pyrene (concentration difference of 0.1 mg/kg), which is considered to be within acceptable limits.

D. Laboratory Spikes

Recoveries in the order of 70% to 130% are generally considered to be acceptable. The average percent recovery for individual organic contaminants ranged from 71% to 133%, and was generally within the quality control objectives.

CONCLUSIONS

The accuracy and precision of the soil testing procedures, as inferred by the QA/QC data is generally considered to be of sufficient standard to allow the data reported to be used to interpret site contamination conditions.