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## CERTIFICATE OF ANALYSIS EG\_1

**Client:**

XXXXX

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XX XX

**Attention:** Jennifer Hawkins

**Sample log in details:**

Your Reference:

**Example Report**

No. of samples:

4 soils

Date samples received:

13/6/08

Date completed instructions received:

13/6/08

**Analysis Details:**

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

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

**Report Details:**

Date results requested by:

13/06/08

Date of Preliminary Report:

Not issued

Issue Date:

13/06/08

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Accredited for compliance with ISO/IEC 17025.

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

**Results Approved By:**

Tania Notaras  
Manager

  
Jacinta Hurst  
Operations Manager  
David Springer  
Business Development & Quality Manager

Envirolab Reference: EG\_1

Revision No: R 00

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**Client Reference: Example Report**

vTPH & BTEX in Soil		EG_1-1	EG_1-2	EG_1-3	EG_1-4
Our Reference:	UNITS	Test1	Test2	Test3	Test4
Your Reference	-----	0-0.1	0-0.1	0-0.1	0-0.1
Depth	-----				
Date Sampled		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Type of sample		soil	soil	soil	soil
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
vTPH C <sub>6</sub> - C <sub>9</sub>	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.5	<0.5	<0.5	<0.5
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1.0	<1.0	<1.0	<1.0
m+p-xylene	mg/kg	<2.0	<2.0	<2.0	<2.0
o-Xylene	mg/kg	<1.0	<1.0	<1.0	<1.0
Surrogate aaa-Trifluorotoluene	%	100	100	100	100

**Client Reference: Example Report**

sTPH in Soil (C10-C36)		EG_1-1	EG_1-2	EG_1-3	EG_1-4
Our Reference:	UNITS	Test1	Test2	Test3	Test4
Your Reference	-----	0-0.1	0-0.1	0-0.1	0-0.1
Depth	-----	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date Sampled		soil	soil	soil	soil
Type of sample					
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
TPH C10 - C14	mg/kg	<50	<50	<50	<50
TPH C15 - C28	mg/kg	<100	<100	<100	<100
TPH C29 - C36	mg/kg	<100	<100	<100	<100
Surrogate o-Terphenyl	%	100	100	100	100

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**Client Reference: Example Report**

PAHs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	EG_1-1 Test1 0-0.1 13/06/2008 soil	EG_1-2 Test2 0-0.1 13/06/2008 soil	EG_1-3 Test3 0-0.1 13/06/2008 soil	EG_1-4 Test4 0-0.1 13/06/2008 soil
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate p-Terphenyl-d14	%	100	100	100	100

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**Client Reference: Example Report**

Organochlorine Pesticides in soil	UNITS	EG_1-1	EG_1-2	EG_1-3	EG_1-4
Our Reference:	-----	Test1	Test2	Test3	Test4
Your Reference	-----	0-0.1	0-0.1	0-0.1	0-0.1
Depth		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date Sampled		soil	soil	soil	soil
Type of sample					
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	100	100

**Client Reference: Example Report**

Organophosphorus Pesticides		EG_1-1	EG_1-2	EG_1-3	EG_1-4
Our Reference:	UNITS	EG_1-1	EG_1-2	EG_1-3	EG_1-4
Your Reference	-----	Test1	Test2	Test3	Test4
Depth	-----	0-0.1	0-0.1	0-0.1	0-0.1
Date Sampled		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Type of sample		soil	soil	soil	soil
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Diazinon	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethoate	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos-methyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ronnel	mg/kg	<0.1	<0.1	<0.1	<0.1
Chlorpyriphos	mg/kg	<0.1	<0.1	<0.1	<0.1
Fenitrothion	mg/kg	<0.1	<0.1	<0.1	<0.1
Bromophos-ethyl	mg/kg	<0.1	<0.1	<0.1	<0.1
Ethion	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	100	100

**Client Reference: Example Report**

PCBs in Soil Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	EG_1-1 Test1 0-0.1 13/06/2008 soil	EG_1-2 Test2 0-0.1 13/06/2008 soil	EG_1-3 Test3 0-0.1 13/06/2008 soil	EG_1-4 Test4 0-0.1 13/06/2008 soil
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate TCLMX	%	100	100	100	100

**Client Reference: Example Report**

Total Phenolics in Soil					
Our Reference:	UNITS	EG_1-1	EG_1-2	EG_1-3	EG_1-4
Your Reference	-----	Test1	Test2	Test3	Test4
Depth	-----	0-0.1	0-0.1	0-0.1	0-0.1
Date Sampled		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Type of sample		soil	soil	soil	soil
Date extracted	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Total Phenolics (as Phenol)	mg/kg	100	100	100	100

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**Client Reference: Example Report**

Acid Extractable metals in soil		EG_1-1	EG_1-2	EG_1-3	EG_1-4
Our Reference:	UNITS	Test1	Test2	Test3	Test4
Your Reference	-----	0-0.1	0-0.1	0-0.1	0-0.1
Depth	-----	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date Sampled		soil	soil	soil	soil
Type of sample					
Date digested	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Arsenic	mg/kg	<4.0	<4.0	<4.0	<4.0
Cadmium	mg/kg	<1.0	<1.0	<1.0	<1.0
Chromium	mg/kg	<1.0	<1.0	<1.0	<1.0
Copper	mg/kg	<1.0	<1.0	<1.0	<1.0
Lead	mg/kg	<1.0	<1.0	<1.0	<1.0
Mercury	mg/kg	<0.10	<0.10	<0.10	<0.10
Nickel	mg/kg	<1.0	<1.0	<1.0	<1.0
Zinc	mg/kg	<1.0	<1.0	<1.0	<1.0

**Client Reference: Example Report**

Miscellaneous Inorg - soil					
Our Reference:	UNITS	EG_1-1	EG_1-2	EG_1-3	EG_1-4
Your Reference	-----	Test1	Test2	Test3	Test4
Depth	-----	0-0.1	0-0.1	0-0.1	0-0.1
Date Sampled		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Type of sample		soil	soil	soil	soil
Date prepared	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
pH 1:5 soil:water	pH Units	7.0	7.0	7.0	7.0

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Moisture					
Our Reference:	UNITS	EG_1-1	EG_1-2	EG_1-3	EG_1-4
Your Reference	-----	Test1	Test2	Test3	Test4
Depth	-----	0-0.1	0-0.1	0-0.1	0-0.1
Date Sampled		13/06/2008	13/06/2008	13/06/2008	13/06/2008
Type of sample		soil	soil	soil	soil
Date prepared	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Moisture	%	<0.10	<0.10	<0.10	<0.10

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**Client Reference: Example Report**

Asbestos ID - soils Our Reference: Your Reference Depth Date Sampled Type of sample	UNITS ----- -----	EG_1-1 Test1 0-0.1 13/06/2008 soil	EG_1-2 Test2 0-0.1 13/06/2008 soil	EG_1-3 Test3 0-0.1 13/06/2008 soil	EG_1-4 Test4 0-0.1 13/06/2008 soil
Date analysed	-	13/06/2008	13/06/2008	13/06/2008	13/06/2008
Sample Description	-	40g soil	40g soil	40g soil	40g soil
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected
Trace Analysis	-	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected	Respirable fibres not detected

Method ID	Methodology Summary
<b>GC.16</b>	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS.
<b>GC.3</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID.
<b>GC.12 subset</b>	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS.
<b>GC-5</b>	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC.8</b>	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC with dual ECD's.
<b>GC-6</b>	Soil samples are extracted with hexane/acetone and waters with dichloromethane and analysed by GC-ECD.
<b>LAB.30</b>	Total Phenolics - determined colorimetrically following disitillation.
<b>Metals.20 ICP-AES</b>	Determination of various metals by ICP-AES.
<b>Metals.21 CV-AAS</b>	Determination of Mercury by Cold Vapour AAS.
<b>LAB.1</b>	pH - Measured using pH meter and electrode in accordance with APHA 20th ED, 4500-H+.
<b>LAB.8</b>	Moisture content determined by heating at 105 deg C for a minimum of 4 hours.
<b>ASB.1</b>	Qualitative identification of asbestos type fibres in bulk using Polarised Light Microscopy and Dispersion Staining Techniques.

**Client Reference: Example Report**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
vTPH & BTEX in Soil						Base II Duplicate II %RPD		
Date extracted	-			13/6/08	EXAMPLE_1 -1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	EXAMPLE_1 -1	13/06/2008    13/06/2008	eg1	13/6/08%
vTPH C <sub>6</sub> - C <sub>9</sub>	mg/kg	25	GC.16	<25	EXAMPLE_1 -1	<25    <25	eg1	99%
Benzene	mg/kg	0.5	GC.16	<0.5	EXAMPLE_1 -1	<0.5    <0.5	eg1	100%
Toluene	mg/kg	0.5	GC.16	<0.5	EXAMPLE_1 -1	<0.5    <0.5	eg1	101%
Ethylbenzene	mg/kg	1	GC.16	<1.0	EXAMPLE_1 -1	<1.0    <1.0	eg1	102%
m+p-xylene	mg/kg	2	GC.16	<2.0	EXAMPLE_1 -1	<2.0    <2.0	eg1	98%
o-Xylene	mg/kg	1	GC.16	<1.0	EXAMPLE_1 -1	<1.0    <1.0	eg1	100%
Surrogate aaa-Trifluorotoluene	%		GC.16	100	EXAMPLE_1 -1	100    100    RPD: 0	eg1	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
sTPH in Soil (C10-C36)						Base II Duplicate II %RPD		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
TPH C <sub>10</sub> - C <sub>14</sub>	mg/kg	50	GC.3	<50	eg1	<50    <50	eg1	101%
TPH C <sub>15</sub> - C <sub>28</sub>	mg/kg	100	GC.3	<100	eg1	<100    <100	eg1	103%
TPH C <sub>29</sub> - C <sub>36</sub>	mg/kg	100	GC.3	<100	eg1	<100    <100	eg1	105%
Surrogate o-Terphenyl	%		GC.3	100	eg1	100    100    RPD: 0	eg1	108%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
PAHs in Soil						Base II Duplicate II %RPD		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Naphthalene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	107%
Acenaphthylene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	98%
Acenaphthene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	94%
Fluorene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	95%
Phenanthrene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	97%
Anthracene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	96%
Fluoranthene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	93%

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QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
<b>PAHs in Soil</b>						<b>Base II Duplicate II %RPD</b>		
Pyrene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	100%
Benzo(a)anthracene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	99%
Chrysene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	102%
Benzo(b+k)fluoranthene	mg/kg	0.2	GC.12 subset	<0.2	eg1	<0.2    <0.2	eg1	105%
Benzo(a)pyrene	mg/kg	0.05	GC.12 subset	<0.05	eg1	<0.05    <0.05	eg1	98%
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	106%
Dibenzo(a,h)anthracene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	107%
Benzo(g,h,i)perylene	mg/kg	0.1	GC.12 subset	<0.1	eg1	<0.1    <0.1	eg1	98%
Surrogate p-Terphenyl-d14	%		GC.12 subset	100	eg1	100    100    RPD: 0	eg1	100%
<b>QUALITY CONTROL</b>	<b>UNITS</b>	<b>PQL</b>	<b>METHOD</b>	<b>Blank</b>	<b>Duplicate Sm#</b>	<b>Duplicate results</b>	<b>Spike Sm#</b>	<b>Spike % Recovery</b>
<b>Organochlorine Pesticides in soil</b>						<b>Base II Duplicate II %RPD</b>		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
HCB	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	102%
alpha-BHC	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	103%
gamma-BHC	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	105%
beta-BHC	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	106%
Heptachlor	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	107%
delta-BHC	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	97%
Aldrin	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	98%
Heptachlor Epoxide	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	106%
gamma-Chlordane	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	95%
alpha-chlordane	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	91%
Endosulfan I	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	93%
pp-DDE	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	94%
Dieldrin	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	97%
Endrin	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	106%
pp-DDD	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	108%
Endosulfan II	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	90%
pp-DDT	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	91%
Endrin Aldehyde	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	95%
Endosulfan Sulphate	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	108%
Methoxychlor	mg/kg	0.1	GC-5	<0.1	eg1	<0.1    <0.1	eg1	106%

**Client Reference: Example Report**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
<b>Organochlorine Pesticides in soil</b>						<b>Base II Duplicate II %RPD</b>		
Surrogate TCLMX	%		GC-5	100	eg1	100    100    RPD: 0	eg1	100%
<b>Organophosphorus Pesticides</b>						<b>Base II Duplicate II %RPD</b>		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Diazinon	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	102%
Dimethoate	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	103%
Chlorpyrifos-methyl	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	105%
Ronnel	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	106%
Chlorpyrifos	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	107%
Fenitrothion	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	101%
Bromophos-ethyl	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	98%
Ethion	mg/kg	0.1	GC.8	<0.1	eg1	<0.1    <0.1	eg1	99%
Surrogate TCLMX	%		GC.8	100	eg1	100    100    RPD: 0	eg1	100%
<b>PCBs in Soil</b>						<b>Base II Duplicate II %RPD</b>		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Arochlor 1016	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	103%
Arochlor 1232	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	106%
Arochlor 1242	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	97%
Arochlor 1248	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	102%
Arochlor 1254	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	98%
Arochlor 1260	mg/kg	0.1	GC-6	<0.1	eg1	<0.1    <0.1	eg1	103%
Surrogate TCLMX	%		GC-6	100	eg1	100    100    RPD: 0	eg1	100%
<b>Total Phenolics in Soil</b>						<b>Base II Duplicate II %RPD</b>		
Date extracted	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Total Phenolics (as Phenol)	mg/kg	5	LAB.30	<5.0	eg1	100    100    RPD: 0	eg1	100%
<b>Acid Extractable metals in soil</b>						<b>Base II Duplicate II %RPD</b>		
Date digested	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Arsenic	mg/kg	4	Metals.20 ICP-AES	<4.0	eg1	<4.0    <4.0	eg1	103%

**Client Reference: Example Report**

QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
<b>Acid Extractable metals in soil</b>						<b>Base II Duplicate II %RPD</b>		
Cadmium	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	102%
Chromium	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	106%
Copper	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	107%
Lead	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	109%
Mercury	mg/kg	0.1	Metals.21 CV-AAS	<0.10	eg1	<0.10    <0.10	eg1	102%
Nickel	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	102%
Zinc	mg/kg	1	Metals.20 ICP-AES	<1.0	eg1	<1.0    <1.0	eg1	103%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results	Spike Sm#	Spike % Recovery
Miscellaneous Inorg - soil						Base II Duplicate II %RPD		
Date prepared	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008	eg1	13/6/08%
pH 1:5 soil:water	pH Units		LAB.1	100.0	eg1	7.0    7.0    RPD: 0	eg1	100%
QUALITY CONTROL	UNITS	PQL	METHOD	Blank	Duplicate Sm#	Duplicate results		
Moisture						Base II Duplicate II %RPD		
Date prepared	-			13/6/08	eg1	13/06/2008    13/06/2008		
Date analysed	-			13/6/08	eg1	13/06/2008    13/06/2008		
Moisture	%	0.1	LAB.8	<0.10	eg1	<0.10    <0.10		
QUALITY CONTROL	UNITS	PQL	METHOD	Blank				
Asbestos ID - soils								
Date analysed	-			13/6/08				
QUALITY CONTROL	UNITS		Dup. Sm#		Duplicate	Spike Sm#	Spike % Recovery	
vTPH & BTEX in Soil					Base + Duplicate + %RPD			
Date extracted	-		[NT]		[NT]	LCS	13/6/08%	
Date analysed	-		[NT]		[NT]	LCS	13/6/08%	
vTPH C6 - C9	mg/kg		[NT]		[NT]	LCS	100%	
Benzene	mg/kg		[NT]		[NT]	LCS	100%	
Toluene	mg/kg		[NT]		[NT]	LCS	100%	
Ethylbenzene	mg/kg		[NT]		[NT]	LCS	100%	
m+p-xylene	mg/kg		[NT]		[NT]	LCS	100%	
o-Xylene	mg/kg		[NT]		[NT]	LCS	100%	
Surrogate aaa-Trifluorotoluene	%		[NT]		[NT]	LCS	100%	

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QUALITY CONTROL sTPH in Soil (C10-C36)	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
TPH C10 - C14	mg/kg	[NT]	[NT]	LCS	100%
TPH C15 - C28	mg/kg	[NT]	[NT]	LCS	100%
TPH C29 - C36	mg/kg	[NT]	[NT]	LCS	100%
Surrogate o-Terphenyl	%	[NT]	[NT]	LCS	100%
QUALITY CONTROL PAHs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
Naphthalene	mg/kg	[NT]	[NT]	LCS	100%
Acenaphthylene	mg/kg	[NT]	[NT]	LCS	100%
Acenaphthene	mg/kg	[NT]	[NT]	LCS	100%
Fluorene	mg/kg	[NT]	[NT]	LCS	100%
Phenanthrene	mg/kg	[NT]	[NT]	LCS	100%
Anthracene	mg/kg	[NT]	[NT]	LCS	100%
Fluoranthene	mg/kg	[NT]	[NT]	LCS	100%
Pyrene	mg/kg	[NT]	[NT]	LCS	100%
Benzo(a)anthracene	mg/kg	[NT]	[NT]	LCS	100%
Chrysene	mg/kg	[NT]	[NT]	LCS	100%
Benzo(b+k)fluoranthene	mg/kg	[NT]	[NT]	LCS	100%
Benzo(a)pyrene	mg/kg	[NT]	[NT]	LCS	100%
Indeno(1,2,3-c,d)pyrene	mg/kg	[NT]	[NT]	LCS	100%
Dibenzo(a,h)anthracene	mg/kg	[NT]	[NT]	LCS	100%
Benzo(g,h,i)perylene	mg/kg	[NT]	[NT]	LCS	100%
Surrogate p-Terphenyl- d14	%	[NT]	[NT]	LCS	100%

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QUALITY CONTROL Organochlorine Pesticides in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
HCB	mg/kg	[NT]	[NT]	LCS	100%
alpha-BHC	mg/kg	[NT]	[NT]	LCS	100%
gamma-BHC	mg/kg	[NT]	[NT]	LCS	100%
beta-BHC	mg/kg	[NT]	[NT]	LCS	100%
Heptachlor	mg/kg	[NT]	[NT]	LCS	100%
delta-BHC	mg/kg	[NT]	[NT]	LCS	100%
Aldrin	mg/kg	[NT]	[NT]	LCS	100%
Heptachlor Epoxide	mg/kg	[NT]	[NT]	LCS	100%
gamma-Chlordane	mg/kg	[NT]	[NT]	LCS	100%
alpha-chlordane	mg/kg	[NT]	[NT]	LCS	100%
Endosulfan I	mg/kg	[NT]	[NT]	LCS	100%
pp-DDE	mg/kg	[NT]	[NT]	LCS	100%
Dieldrin	mg/kg	[NT]	[NT]	LCS	100%
Endrin	mg/kg	[NT]	[NT]	LCS	100%
pp-DDD	mg/kg	[NT]	[NT]	LCS	100%
Endosulfan II	mg/kg	[NT]	[NT]	LCS	100%
pp-DDT	mg/kg	[NT]	[NT]	LCS	100%
Endrin Aldehyde	mg/kg	[NT]	[NT]	LCS	100%
Endosulfan Sulphate	mg/kg	[NT]	[NT]	LCS	100%
Methoxychlor	mg/kg	[NT]	[NT]	LCS	100%
Surrogate TCLMX	%	[NT]	[NT]	LCS	100%

**Client Reference: Example Report**

QUALITY CONTROL Organophosphorus Pesticides	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
Diazinon	mg/kg	[NT]	[NT]	LCS	100%
Dimethoate	mg/kg	[NT]	[NT]	LCS	100%
Chlorpyriphos-methyl	mg/kg	[NT]	[NT]	LCS	100%
Ronnel	mg/kg	[NT]	[NT]	LCS	100%
Chlorpyriphos	mg/kg	[NT]	[NT]	LCS	100%
Fenitrothion	mg/kg	[NT]	[NT]	LCS	100%
Bromophos-ethyl	mg/kg	[NT]	[NT]	LCS	100%
Ethion	mg/kg	[NT]	[NT]	LCS	100%
Surrogate TCLMX	%	[NT]	[NT]	LCS	100%
QUALITY CONTROL PCBs in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
Arochlor 1016	mg/kg	[NT]	[NT]	LCS	100%
Arochlor 1232	mg/kg	[NT]	[NT]	LCS	100%
Arochlor 1242	mg/kg	[NT]	[NT]	LCS	100%
Arochlor 1248	mg/kg	[NT]	[NT]	LCS	100%
Arochlor 1254	mg/kg	[NT]	[NT]	LCS	100%
Arochlor 1260	mg/kg	[NT]	[NT]	LCS	100%
Surrogate TCLMX	%	[NT]	[NT]	LCS	100%
QUALITY CONTROL Total Phenolics in Soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date extracted	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
Total Phenolics (as Phenol)	mg/kg	[NT]	[NT]	LCS	100%
QUALITY CONTROL Acid Extractable metals in soil	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Spike % Recovery
Date digested	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
Arsenic	mg/kg	[NT]	[NT]	LCS	100%
Cadmium	mg/kg	[NT]	[NT]	LCS	100%
Chromium	mg/kg	[NT]	[NT]	LCS	100%
Copper	mg/kg	[NT]	[NT]	LCS	100%
Lead	mg/kg	[NT]	[NT]	LCS	100%
Mercury	mg/kg	[NT]	[NT]	LCS	100%

**Client Reference: Example Report**

<b>QUALITY CONTROL Acid Extractable metals in soil</b>	<b>UNITS</b>	<b>Dup. Sm#</b>	<b>Duplicate Base + Duplicate + %RPD</b>	<b>Spike Sm#</b>	<b>Spike % Recovery</b>
Nickel	mg/kg	[NT]	[NT]	LCS	100%
Zinc	mg/kg	[NT]	[NT]	LCS	100%
<b>QUALITY CONTROL Miscellaneous Inorg - soil</b>	<b>UNITS</b>	<b>Dup. Sm#</b>	<b>Duplicate Base + Duplicate + %RPD</b>	<b>Spike Sm#</b>	<b>Spike % Recovery</b>
Date prepared	-	[NT]	[NT]	LCS	13/6/08%
Date analysed	-	[NT]	[NT]	LCS	13/6/08%
pH 1:5 soil:water	pH Units	[NT]	[NT]	LCS	100%

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**Report Comments:**

Asbestos was analysed by Approved Identifier: Joshua Lim

INS: Insufficient sample for this test

NT: Not tested

PQL: Practical Quantitation Limit

RPD: Relative Percent Difference

NA: Test not required

LCS: Laboratory Control Sample

NR: Not requested

&lt;: Less than

&gt;: Greater than

**Quality Control Definitions**

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

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

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

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

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

**Laboratory Acceptance Criteria:**

Duplicates: &lt;5xPQL - any RPD is acceptable;

&gt;5xPQL - 0-50% RPD is acceptable.

Matrix Spikes and LCS: Generally 70-130% for inorganics/metals; 60-140% for organics and 10-140% for

SVOC and speciated phenols is acceptable.

Surrogates: 60-140% is acceptable for general organics and 10-140% for

SVOC and speciated phenols.