



ANALYSIS REPORT

Client:	Focus Environmental Services Limited	Lab No:	1510408	SPV1
Contact:	Sam Woolley C/- Focus Environmental Services Limited PO Box 11455 Ellerslie AUCKLAND 1542	Date Registered:	03-Dec-2015	
		Date Reported:	08-Dec-2015	
		Quote No:	72197	
		Order No:		
		Client Reference:	0092.031	
		Submitted By:	Sam Woolley	

Sample Type: Soil

Sample Name:	Comp2-AR 03-Dec-2015	Comp2-BR 03-Dec-2015	Comp2-CR 03-Dec-2015	Comp2-DR 03-Dec-2015	
Lab Number:	1510408.1	1510408.2	1510408.3	1510408.4	
Individual Tests					
Dry Matter	g/100g as rcvd	78	87	87	83
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES	mg/kg dry wt	0.99	0.91	1.13	1.08
Polycyclic Aromatic Hydrocarbons Screening in Soil					
Acenaphthene	mg/kg dry wt	< 0.03	< 0.03	< 0.03	0.04
Acenaphthylene	mg/kg dry wt	< 0.03	< 0.03	< 0.03	0.03
Anthracene	mg/kg dry wt	0.08	0.07	0.11	0.16
Benzo[a]anthracene	mg/kg dry wt	0.50	0.45	0.57	0.59
Benzo[a]pyrene (BAP)	mg/kg dry wt	0.69	0.64	0.78	0.75
Benzo[b]fluoranthene + Benzo[j] fluoranthene	mg/kg dry wt	0.76	0.70	0.89	0.81
Benzo[g,h,i]perylene	mg/kg dry wt	0.48	0.45	0.54	0.49
Benzo[k]fluoranthene	mg/kg dry wt	0.26	0.26	0.37	0.28
Chrysene	mg/kg dry wt	0.42	0.38	0.49	0.49
Dibenzo[a,h]anthracene	mg/kg dry wt	0.09	0.08	0.10	0.09
Fluoranthene	mg/kg dry wt	1.00	0.96	1.31	1.39
Fluorene	mg/kg dry wt	< 0.03	< 0.03	< 0.03	0.03
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	0.47	0.41	0.54	0.50
Naphthalene	mg/kg dry wt	< 0.15	< 0.13	< 0.13	< 0.13
Phenanthrene	mg/kg dry wt	0.35	0.34	0.49	0.66
Pyrene	mg/kg dry wt	1.03	1.00	1.31	1.36

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Polycyclic Aromatic Hydrocarbons Screening in Soil	Sonication extraction, Dilution or SPE cleanup (if required), GC-MS SIM analysis (modified US EPA 8270). Tested on as received sample. [KBIs:5786,2805,2695]	0.010 - 0.05 mg/kg dry wt	1-4
Dry Matter (Env)	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. US EPA 3550. (Free water removed before analysis).	0.10 g/100g as rcvd	1-4
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES	BaP Potency Equivalence calculated from Benz(a)anthracene x 0.1 + Benzo(b)fluoranthene x 0.1 + Benzo(j)fluoranthene x 0.1 + Benzo(k)fluoranthene x 0.1 + Benzo(a)pyrene x 1 + Chrysene x 0.01 + Dibenz(a,h)anthracene x 1 + Fluoranthene x 0.01 + Indeno(1,2,3-c,d)pyrene x 0.1. Ministry for the Environment. 2011. Methodology for Deriving Standards for Contaminants in Soil to Protect Human Health. Wellington: Ministry for the Environment.	0.002 mg/kg dry wt	1-4



These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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A handwritten signature in blue ink, appearing to read 'Peter Robinson', with a long horizontal flourish extending to the right.

Peter Robinson MSc (Hons), PhD, FNZIC
Client Services Manager - Environmental Division