Our Ref: 18-11855
Your Ref: 322/SDK

ENVIROCHEM

Analytical Laboratories Ltd.

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Analysis Report

Client: L & S Waste Management Ltd
Laveys Lane
Pegham Industrial Park
Fareham
Hampshire
PO15 6SD

Sample Details: 1 Sample for Soil Analysis

Date report issued: 6 August 2018

Number of pages (including this header): 3

Accreditation

All analytes marked **M** have been analysed under the scope of our MCERTS accreditation
All analytes marked **U** have been analysed under the scope of our UKAS accreditation
All analytes marked **m** have been subcontracted and analysed under the scope of their MCERTS accreditation
All analytes marked **u** have been subcontracted and analysed under the scope of their UKAS accreditation
All results labelled with an asterisk (*) are non-conforming due to incorrect sample storage or handling. The result may be invalid.

Signed on behalf of Envirochem by an authorised signatory

[redacted]

Christopher Mirzaians

Authorised Signatory

Reg. No. 2378228 England. Registered Office: Envirochem, 12 The Gardens, Broadcut, Fareham, Hampshire, PO16 8SS.

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Client:	L & S Waste Management Ltd	Date Sampled:	Not Supplied
Site:	Gosport OFD	Date Received:	23 July 2018
Sampled By:	Client	Date Completed:	1 August 2018
Envirochem Job No.	18-11855	Date Issued:	1 August 2018

			Lab Sample No.	31379						
			Soil Type	Silt loam						
			Sample Date	/ /						
			Sample Time							
			Sample Location / Details	Class 2C						
Determination	Units	Method	Detection Limit					Limits		
								Resid.	Allot.	Comm.
Particle size > 2mm	%	6.16	-	11				---	---	---
water content 105C	%	6.01	1.0	11.2				---	---	---
% water , air dried	%	5.01	1.0	11.2				---	---	---
pH	pH Units	6.03	1.00	7.65 M*				---	---	---
cyanide soil	mg/ kg	6.19	0.025	< 0.025				---	---	---
arsenic	mg/kg (dry	5.16, 6.08	1.2	12.0 M*				32+	43+	640+
boron total	mg/kg (dry	5.16, 6.08	6.0	43.0				---	---	---
beryllium	mg/kg (dry	5.16, 6.08	0.20	0.66				---	---	---
cadmium	mg/kg (dry	5.16, 6.08	1.0	2.7 M*				10+	1.8+	230+
Chromium VI	mg/kg	6.19	0.05	< 0.05				---	---	---
chromium	mg/ kg	5.16, 6.08	5.0	28.7 M*				600+++	600+++	1000+
Chromium III	mg/kg	6.19	5.00	28.7				---	---	---
copper	mg/kg (dry	5.16, 6.08	3.0	30.7 M*				2330++	524++	71700
mercury	mg/kg (dry	5.16, 6.08	1.00	< 1.00 M*				1.0+	26+	26+
nickel	mg/kg (dry	5.16, 6.08	2.0	16.9 M*				130+	230+	1800+
lead	mg/kg (dry	5.16, 6.08	60.0	105 M*				500+++	500+++	2000+
selenium	mg/kg (dry	5.16, 6.08	2.0	< 2.0 M*				350+	120+	13000+
vanadium	mg/kg (dry	5.16, 6.08	2.0	45.0 M*				---	---	---
zinc	mg/kg (dry	5.16, 6.08	15.0	171 M*				3750++	618++	66500
total TPH (C10 - C44)	mg/ kg	6.04	50.0	403				---	---	---
TPH Aliphatic (C6-C8)	mg/ kg	6.04	0.01	< 0.01				110++	1700++	12000
TPH Aliphatic (C8-C10)	mg/kg	6.04	10.00	< 10.0				110++	1700++	12000
TPH Aliphatic (C5-C6)	mg/kg	6.04	0.01	< 0.01				110++	1700++	12000
TPH Aliphatic (C10-C12)	mg/kg	6.04	10.0	< 10.0				540++	7300++	49000
TPH Aliphatic (C12-C16)	mg/ kg	6.04	10.0	< 10.0				3000++	13000	91000
TPH Aliphatic (C16-C35)	mg/ kg	6.04	10.0	73.0				76000	27000	18000
TPH Aliphatic (C35-C44)	mg/ kg	6.04	10.0	103				76000	27000	18000
TPH Aromatic (C8-C10)	mg/ kg	6.04	10.00	< 10.0				151++	51++	18000
TPH Aromatic (C5-C7)	mg/ kg	6.04	0.01	< 0.01				151++	51++	18000
TPH Aromatic (C7-C8)	mg/ kg	6.04	0.01	< 0.01				151++	51++	18000
TPH Aromatic (C10-C12)	mg/ kg	6.04	10.0	< 10.0				346++	74++	34500

Limits labelled '+' are soil guideline values from Defra 2002 (information taken from: Using Soil Guideline Values: Science Report: SC050021/SGV introduction & www.environment-agency.gov.uk/ clea)
Limits labelled '++' are LQM Soil Guideline Values
Limits labelled '+++' are ICRCL 59/83 trigger concentrations. These do not differentiate between domestic and allotments

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			Lab Sample No.	31379						
			Soil Type	Silt loam						
			Sample Date	/ /						
			Sample Time							
			Sample Location / Details	Class 2C						
								Limits		
Determination	Units	Method	Detection Limit					Resid.	Allot.	Comm.
TPH Aromatic (C12-C16)	mg/ kg	6.04	10.0	< 10.0				593++	130++	37800
TPH Aromatic (C16-C21)	mg/ kg	6.04	10.0	< 10.0				770++	260++	28000
TPH Aromatic (C35-C44)	mg/ kg	6.04	10.0	66.3				1230++	1600++	28000
TPH Aromatic (C21-C35)	mg/ kg	6.04	10.0	140				1230++	1600++	28000
total PAHs	mg/ kg	6.05	10.0	< 10.0				---	---	---
PAH Acenaphthene	mg/ kg	6.05	0.10	< 0.10				1000++	200++	10000
PAH Acenaphthylene	mg/ kg	6.05	0.10	< 0.10				850++	160++	10000
PAH Anthracene	mg/ kg	6.05	0.10	< 0.10				9200++	2200++	54000
PAH Benzo(a)pyrene	mg/ kg	6.05	0.10	< 0.10				1++	2.1++	14++
PAH Benz(a)anthracene	mg/ kg	6.05	0.10	< 0.10				5.9++	10++	97++
PAH Benzo(b)fluoranthene	mg/ kg	6.05	0.10	0.10				7++	13++	100++
PAH Benzo(k)fluoranthene	mg/ kg	6.05	0.10	< 0.10				10++	23++	140++
PAH Chrysene	mg/ kg	6.05	0.10	< 0.10				9.3++	12++	140++
PAH Dibenzo(a,h)anthracene	mg/ kg	6.05	0.10	< 0.10				0.9++	2.3++	13++
PAH Fluorene	mg/ kg	6.05	0.10	< 0.10				780++	160++	71000
PAH Fluoranthene	mg/ kg	6.05	0.10	0.16				670++	290++	23000
PAH Indeno(1,2,3-c,d)pyrene	mg/ kg	6.05	0.10	< 0.10				4.2++	7.1++	63++
PAH Napthalene	mg/kg	6.05	0.10	< 0.10				8.7++	23++	1100++
PAH Phenanthrene	mg/ kg	6.05	0.10	< 0.10				380++	90++	23000
PAH Pyrene	mg/ kg	6.05	0.10	0.14				1600++	620++	54000
PAH Benzo(g,h,i)perylene	mg/ kg	6.05	0.10	< 0.10				47++	160++	660++
MTBE	mg/kg	6.11	1.0	< 1.0				---	---	---
Benzene	mg/ kg	6.11	0.1	< 0.1				0.33	0.07	95
Toluene	mg/ kg	6.11	1.0	< 1.0				610	120	4400
Ethyl Benzene	mg/ kg	6.11	1.0	< 1.0				350	90	2800
Xylene	mg/ kg	6.11	1.0	< 1.0				250	180	3500

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