

Appendix V - Laboratory Soil Test Results

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SOIL

ANALYTICAL REPORT

Date Received	07-APR-2021
Date Reported	19-APR-2021

Laboratory References	
Report Number	47973-21
First Sample Number	ENV 59806

ANALYTICAL NOTES

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

The WAC analysis has been undertaken according to the British Standard EN12457 Part 3 for the Characterisation of Waste - a compliance test of granular waste materials and sludges. Part 3 is a two stage batch test at liquid to solid ratios of 2 l/kg and 8 l/kg.

Landfill WAC analysis must not be used for hazardous waste classification purposes. This analysis is only applicable for waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

All results are presented on a dry matter or corrected dry matter basis.

Further details of analysis are available on request.

Released by*Jennifer Cherrie*.....

Date*19/04/21*.....

ANALYTICAL REPORT

Report Number 47973-21
Sample Number ENV 59806
Sample Reference **RAILWAY COTTAGE 1**

ANALYTICAL RESULTS for Solid Waste on a dry matter basis

Determinand	Value	Units	Landfill Waste Acceptance Criteria Limits		
			Inert Waste Landfill	Stable non-reactive hazardous waste and non-hazardous waste co-dispersed with SNRHW	Hazardous Waste Landfill
Total Organic Carbon	10.1	%	3%	5%	6%
Organic Matter LOI	10.8	% w/w			10%
BTEX	0.4	mg/kg	6 mg/kg		
PCB EC7	<2	ug/kg	1 mg/kg		
EPH [C10-C40]	397	mg/kg	500 mg/kg		
PAHs [EPA16 + Coronene]	37.0	mg/kg	100 mg/kg		
Fresh pH [1:10]	8.24			>6	
Acid Neutralising Capacity pH 7	2.00	mol/kg			
Acid Neutralising Capacity pH 4	2.56	mol/kg			

ANALYTICAL RESULTS for Waste Leachate on a dry matter basis

Determinand	Limit values (mg/kg) for compliance leaching test using BS EN 12457 at L/S 10 l/kg				
	L/S 2 (mg/kg)	L/S 10 (mg/kg)			
Arsenic	<0.05	<0.05	0.5	2	25
Barium	<0.1	<0.1	20	100	300
Cadmium	<0.01	<0.01	0.04	1	5
Chromium	<0.05	<0.2	0.5	10	70
Copper	0.07	0.13	2	50	100
Mercury	<0.005	<0.01	0.01	0.2	2
Molybdenum	<0.05	<0.05	0.5	10	30
Nickel	<0.05	<0.1	0.4	10	40
Lead	<0.05	0.07	0.5	10	50
Antimony	0.01	0.02	0.06	0.7	5
Selenium	<0.01	<0.03	0.1	0.5	7
Zinc	<0.5	<0.5	4	50	200
Chloride	<10	21	800	15000	25000
Fluoride	4	8	10	150	500
Sulphate	24	34	1000	20000	50000
Total Dissolved Solids	403	854	4000	60000	100000
Phenol Index	<1	<1	1		
DOC by NPOC	88.1	150	500	800	1000
Leach Test Information	L/S 2	L/S 10			
pH	8.3	8.3			
Conductivity us/cm	199	116			
Temperature Deg. C	21	21			

Waste Acceptance Criteria are provided for guidance only and NRM cannot be held responsible for any discrepancies with current legislation. Meeting WAC limits does not guarantee waste acceptance. Discuss specific permit conditions with Landfill Operator.

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ANALYTICAL REPORT

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Sample Reference **RAILWAY COTTAGE 1**

ANALYTICAL RESULTS on a dry matter basis

Determinand	Value	Units	Determinand	Value	Units
Benzene	0.03	mg/kg	Naphthalene	0.8	mg/kg
Toluene	0.3	mg/kg	Acenaphthylene	0.2	mg/kg
Ethyl Benzene	0.05	mg/kg	Acenaphthene	<0.05	mg/kg
m&p-Xylene	<0.2	mg/kg	Fluorene	<0.05	mg/kg
o-Xylene	<0.1	mg/kg	Phenanthrene	1.9	mg/kg
			Anthracene	0.6	mg/kg
PCB-28	<0.5	ug/kg	Fluoranthene	6.9	mg/kg
PCB-52	<0.5	ug/kg	Pyrene	5.7	mg/kg
PCB-101	<0.5	ug/kg	Benzo[a]anthracene	3.7	mg/kg
PCB-118	<0.5	ug/kg	Chrysene	3.9	mg/kg
PCB-138	<0.5	ug/kg	Benzo[b]fluoranthene	3.1	mg/kg
PCB-153	<0.5	ug/kg	Benzo[k]fluoranthene	1.5	mg/kg
PCB-180	<0.5	ug/kg	Benzo[a]pyrene	3.1	mg/kg
			Indeno[1,2,3-cd]pyrene	1.8	mg/kg
			Dibenzo[a,h]anthracene	0.5	mg/kg
			Benzo[g,h,i]perylene	1.9	mg/kg
			Coronene	1.6	mg/kg
			Benzo[j]fluoranthene	0.4	mg/kg
EPH [C10-C40]	397	mg/kg			