APPENDIX R
WM3 ASSESSMENT

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Haswaste, developed by Dr. Iain Haslock.

371654
Ugly Brown Building

WAC

TP/WS/BH		BH02	BH02	BH05	BH01	BH01	BH01	BH06	BH06	BH07
Depth (m)		0.30	0.60	0.70	1.00	3.00	4.00	0.70	2.60	3.00
Envirolab reference		19/00318/1	19/00318/2	19/00318/4	19/00430/1	19/00430/3	19/00430/4	19/00718/2	19/00718/3	19/00718/7
% Moisture	%	13.6	18.1	16.8	7.1	10.3	17.5	9.6	27.9	21.0
pH (soil)		8.13	8.29	8.33	11.60	10.77	8.86	9.01	8.47	9.21
pH (leachate)										
Arsenic	mg/kg	6	4	4	2	3	1	4	2	8
Cadmium	mg/kg	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5
Copper	mg/kg	17	23	21	24	15	30	348	90	59
CrVI or Chromium	mg/kg	1	1	1	1	1	1	1	1	1
Lead	mg/kg	47	15	19	57	40	14	99	68	207
Mercury	mg/kg	0.51	0.17	0.17	0.30	0.47	0.17	0.43	0.24	0.54
Nickel	mg/kg	9	35	30	14	9	40	11	34	21
Selenium	mg/kg	1	1	1	1	1	1	1	1	2
Zinc	mg/kg	53	67	59	81	39	83	89	102	180
Barium	mg/kg									
Beryllium	mg/kg									
Vanadium	mg/kg									
Cobalt	mg/kg									
Manganese	mg/kg									
Molybdenum	mg/kg									
Antimony	mg/kg									
Aluminium	mg/kg									
Bismuth	mg/kg									
CrIII	mg/kg									
Iron	mg/kg									
Strontium	mg/kg									
Tellurium	mg/kg									
Thallium	mg/kg									
Titanium	mg/kg									
Tungsten	mg/kg									
Ammoniacal N	mg/kg									
ws Boron	mg/kg									
PAH (Input Total PAH **OR** individual PAH results)										
Acenaphthene	mg/kg	0.01	0.01	0.01	0.02	0.01	0.01	0.04	0.08	0.24
Acenaphthylene	mg/kg	0.01	0.01	0.01	0.03	0.01	0.01	0.02	0.01	0.02
Anthracene	mg/kg	0.02	0.02	0.02	0.10	0.05	0.02	0.27	0.02	0.69
Benzo(a)anthracene	mg/kg	0.09	0.04	0.04	0.53	0.18	0.04	0.99	0.04	2.16
Benzo(a)pyrene	mg/kg	0.10	0.04	0.04	0.47	0.16	0.04	0.66	0.04	1.86
Benzo(b)fluoranthene	mg/kg	0.13	0.05	0.05	0.64	0.20	0.05	1.18	0.05	2.13
Benzo(ghi)perylene	mg/kg	0.06	0.05	0.05	0.31	0.12	0.05	0.38	0.05	0.83
Benzo(k)fluoranthene	mg/kg	0.07	0.07	0.07	0.23	0.07	0.07	0.38	0.07	0.70
Chrysene	mg/kg	0.11	0.06	0.06	0.60	0.20	0.06	1.08	0.06	2.02
Dibenzo(ah)anthracene	mg/kg	0.04	0.04	0.04	0.08	0.04	0.04	0.10	0.04	0.21
Fluoranthene	mg/kg	0.16	0.08	0.08	1.08	0.35	0.08	1.26	0.46	4.96
Fluorene	mg/kg	0.01	0.01	0.01	0.02	0.01	0.01	0.03	0.01	0.20
Indeno(123cd)pyrene	mg/kg	0.08	0.03	0.03	0.36	0.12	0.03	0.49	0.03	1.10
Naphthalene	mg/kg	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Phenanthrene	mg/kg	0.05	0.03	0.03	0.54	0.22	0.05	0.37	0.03	2.77
Pyrene	mg/kg	0.14	0.07	0.07	0.91	0.31	0.07	2.21	0.32	4.11
Coronene	mg/kg	0.02	0.01	0.01	0.08	0.03	0.01	0.10	0.01	0.21
Total PAHs (16 or 17)	mg/kg									
TPH										
Petrol	mg/kg									
Diesel	mg/kg									
Lube Oil	mg/kg									
Crude Oil	mg/kg									
White Spirit / Kerosene	mg/kg									
Creosote	mg/kg									
Unknown TPH with ID	mg/kg	31.0	10.0	83.0	682.0	102.0	28.0	289.0	53.0	791.0
Unknown TPHCWG	mg/kg									
Total Sulphide	mg/kg									
Complex Cyanide	mg/kg									
Free (or Total) Cyanide	mg/kg									
Thiocyanate	mg/kg									
Elemental/Free Sulphur	mg/kg									
Phenols Input Total Phenols HPLC **OR** individual Phenol results.										
Phenol	mg/kg									
Cresols	mg/kg									
Xylenols	mg/kg									
Resourcinol	mg/kg									
Phenols Total by HPLC	mg/kg									
BTEX Input Total BTEX **OR** individual BTEX results.										
Benzene	mg/kg									
Toluene	mg/kg									
Ethylbenzene	mg/kg									
Xylenes	mg/kg									
Total BTEX	mg/kg									
PCBs (POPs)										
PCBs Total (eg EC7/WHO12)	mg/kg									
PBBs (POPs)										
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg									

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371654
Ugly Brown Building

WAC

TP/WS/BH	BH02	BH02	BH05	BH01	BH01	BH01	BH06	BH06	BH07
Depth (m)	0.30	0.60	0.70	1.00	3.00	4.00	0.70	2.60	3.00
Envirolab reference	19/00318/1	19/00318/2	19/00318/4	19/00430/1	19/00430/3	19/00430/4	19/00718/2	19/00718/3	19/00718/7
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.									
2,3,7,8-TeCDD	mg/kg								
1,2,3,7,8-PeCDD	mg/kg								
1,2,3,4,7,8-HxCDD	mg/kg								
1,2,3,6,7,8-HxCDD	mg/kg								
1,2,3,7,8,9-HxCDD	mg/kg								
1,2,3,4,6,7,8-HpCDD	mg/kg								
OCDD	mg/kg								
2,3,7,8-TeCDF	mg/kg								
1,2,3,7,8-PeCDF	mg/kg								
2,3,4,7,8-PeCDF	mg/kg								
1,2,3,4,7,8-HxCDF	mg/kg								
1,2,3,6,7,8-HxCDF	mg/kg								
2,3,4,6,7,8-HxCDF	mg/kg								
1,2,3,7,8,9-HxCDF	mg/kg								
1,2,3,4,6,7,8-HpCDF	mg/kg								
1,2,3,4,7,8,9-HpCDF	mg/kg								
OCDF	mg/kg								
Total Dioxins and Furans	mg/kg								
Some Pesticides (POPs unless otherwise stated)									
Aldrin	mg/kg								
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg								
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg								
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg								
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg								
Dieldrin	mg/kg								
Endrin	mg/kg								
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg								
Heptachlor	mg/kg								
Hexachlorobenzene	mg/kg								
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg								
p,p'-DDT ***OR*** *Total DDT*	mg/kg								
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg								
Chlordecone (kepone)	mg/kg								
Pentachlorobenzene	mg/kg								
Mirex	mg/kg								
Toxaphene (camphechlor)	mg/kg								
Tin									
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg								
Organotin									
Dibutyltin; DiBT	mg/kg								
Tributyltin; TriBT	mg/kg								
Triphenyltin; TriPT	mg/kg								
Tetrabutyltin; TeBT	mg/kg								
Tin excluding Organotin									
Tin excl Organotin	mg/kg								

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WAC

TP/WS/BH	BH02	BH02	BH05	BH01	BH01	BH01	BH06	BH06	BH07
Depth (m)	0.30	0.60	0.70	1.00	3.00	4.00	0.70	2.60	3.00
Envirolab reference	19/00318/1	19/00318/2	19/00318/4	19/00430/1	19/00430/3	19/00430/4	19/00718/2	19/00718/3	19/00718/7
Asbestos in Soil	Thresholds								
Asbestos detected in Soil (enter Y or N)	Y	N	N	Y	N	N	N	N	N	N
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7							
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%		0.00600					
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00600	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.							
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y								

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.
Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value	**If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.**								
Corrosive HP8	≥5%	<1%	0.00085	0.00059	0.00060	0.00042	0.00053	0.00027	0.00065	0.00033	0.00099
Irritant HP4	≥10%	<1%	0.00234	0.00256	0.00241	0.00276	0.00188	0.00291	0.03603	0.00752	0.00610
Irritant HP4	≥20%	<1%	0.00325	0.00793	0.00703	0.00530	0.00320	0.00948	0.03782	0.01232	0.00924
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00000	0.00000	0.00000	0.00005	0.00002	0.00000	0.00003	0.00001	0.00022
Specifc Target Organ Toxicity HP5	≥1%		0.00157	0.00579	0.00504	0.00263	0.00163	0.00667	0.00201	0.00495	0.00335
Specifc Target Organ Toxicity HP5	≥10%		0.00406	0.00123	0.00691	0.06336	0.00915	0.00231	0.02613	0.00490	0.06249
Aspiration Toxicity HP5	≥10%		0.00268	0.00082	0.00691	0.06336	0.00915	0.00231	0.02613	0.00382	0.06249
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00073	0.00045	0.00045	0.00027	0.00040	0.00012	0.00052	0.00021	0.00088
Acute Toxicity HP6	≥5%	<0.1%	0.00029	0.00027	0.00028	0.00031	0.00030	0.00027	0.00030	0.00024	0.00037
Acute Toxicity HP6	≥25%	<1%	0.00736	0.00920	0.00865	0.01064	0.00684	0.01068	0.04670	0.01726	0.02563
Acute Toxicity HP6	≥0.25%	<0.1%	0.00004	0.00001	0.00001	0.00003	0.00004	0.00001	0.00004	0.00002	0.00004
Acute Toxicity HP6	≥2.5%	<0.1%	0.00017	0.00016	0.00016	0.00018	0.00017	0.00016	0.00017	0.00014	0.00015
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00004	0.00004	0.00004	0.00005	0.00004	0.00005	0.00005	0.00004	0.00004
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00025	0.00021	0.00022	0.00025	0.00026	0.00022	0.00026	0.00019	0.00023
Acute Toxicity HP6	≥3.5%	<0.1%	0.00012	0.00012	0.00012	0.00013	0.00013	0.00012	0.00013	0.00010	0.00022
Acute Toxicity HP6	≥22.5%	<1%	0.00729	0.00915	0.00860	0.01044	0.00674	0.01062	0.04651	0.01719	0.02497
Carcinogenic HP7	≥0.1%		0.00406	0.00579	0.00504	0.00530	0.00359	0.00667	0.00895	0.00495	0.01635
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00001	0.00000	0.00000	0.00003	0.00001	0.00000	0.00004	0.00000	0.00009
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		26.78	8.19	69.06	633.58	91.49	23.10	261.26	38.21	624.89
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		0.27871	0.32760	0.04010	0.06402	0.14071	0.11786	0.20645	0.05442	0.18576
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		8.13	8.29	8.33	11.60	10.77	8.86	9.01	8.47	9.21
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		8.13	8.29	8.33	11.60	10.77	8.86	9.01	8.47	9.21
Toxic for Reproduction HP10	≥0.3%		0.00406	0.00579	0.00504	0.00530	0.00359	0.00667	0.00895	0.00495	0.01635
Toxic for Reproduction HP10	≥3%		0.00268	0.00082	0.00691	0.06336	0.00915	0.00231	0.02613	0.00382	0.06249
Mutagenic HP11	≥0.1%		0.00017	0.00016	0.00016	0.00018	0.00017	0.00016	0.00017	0.00014	0.00015
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		26.78	8.19	69.06	633.58	91.49	23.10	261.26	38.21	624.89
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		0.27871	0.32760	0.04010	0.06402	0.14071	0.11786	0.20645	0.05442	0.18576
Mutagenic HP11	≥1%		0.00157	0.00579	0.00504	0.00263	0.00163	0.00667	0.00201	0.00495	0.00335
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00157	0.00579	0.00504	0.00263	0.00163	0.00667	0.00201	0.00495	0.00335

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Ugly Brown Building

WAC

TP/WS/BH	BH02	BH02	BH05	BH01	BH01	BH01	BH06	BH06	BH07
Depth (m)	0.30	0.60	0.70	1.00	3.00	4.00	0.70	2.60	3.00
Envirolab reference	19/00318/1	19/00318/2	19/00318/4	19/00430/1	19/00430/3	19/00430/4	19/00718/2	19/00718/3	19/00718/7
Ecotoxic HP14 amended v6	0.01416	0.01682	0.01556	0.02099	0.01203	0.01968	0.05824	0.02696	0.04585
Ecotoxic HP14 amended v6	0.01684	0.01763	0.02246	0.08435	0.02118	0.02199	0.08436	0.03078	0.10834
Ecotoxic HP14 amended v6	1.44305	1.68976	1.62456	2.73293	1.29428	1.99064	6.08510	2.73396	5.20966
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

Ecotoxic HP14 amended v6	≥25%	<0.1%
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%	
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%	
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%	

If other contaminants need adding to Haswaste, please contact Envirolab.

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							WAC	WAC		WAC
TP/WS/BH		BH11	BH12A	WS1	WS4	BH13	WS6	BH15	BH15	BH10
Depth (m)		0.70	2.50	0.40	0.70	0.70	0.60	1.50	4.50	2.00
Envirolab reference		19/00718/10	19/00718/14	19/01010/1	19/01010/6	19/01010/10	19/01010/12	19/01010/13	19/01010/16	19/01381/1
% Moisture	%	12.3	10.1	11.5	5.7	18.8	10.9	12.6	15.0	19.2
pH (soil)		9.18	9.38	7.72	8.84	8.44	9.07	9.49	9.15	12.13
pH (leachate)										
Arsenic	mg/kg	3	3	8	2	1	5	4	2	8
Cadmium	mg/kg	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5	0.7
Copper	mg/kg	26	18	35	268	41	144	24	10	38
CrVI or Chromium	mg/kg	1	1	1	1	1	1	1	1	1
Lead	mg/kg	45	50	60	260	25	88	150	30	299
Mercury	mg/kg	0.87	0.20	0.17	0.48	0.17	0.17	2.41	0.17	0.54
Nickel	mg/kg	10	13	17	26	28	22	13	26	47
Selenium	mg/kg	1	1	1	1	1	2	1	1	1
Zinc	mg/kg	76	33	61	152	62	74	82	33	152
Barium	mg/kg									
Beryllium	mg/kg									
Vanadium	mg/kg									
Cobalt	mg/kg									
Manganese	mg/kg									
Molybdenum	mg/kg									
Antimony	mg/kg									
Aluminium	mg/kg									
Bismuth	mg/kg									
CrIII	mg/kg									
Iron	mg/kg									
Strontium	mg/kg									
Tellurium	mg/kg									
Thallium	mg/kg									
Titanium	mg/kg									
Tungsten	mg/kg									
Ammoniacal N	mg/kg									
ws Boron	mg/kg									
PAH (Input Total PAH **OR** individual PAH results)										
Acenaphthene	mg/kg	0.01	0.01	0.01	0.24	0.01	0.01	0.04	0.01	0.16
Acenaphthylene	mg/kg	0.01	0.01	0.01	0.14	0.01	0.01	0.01	0.01	0.02
Anthracene	mg/kg	0.03	0.02	0.02	1.37	0.02	0.06	0.15	0.05	0.18
Benzo(a)anthracene	mg/kg	0.15	0.04	0.04	4.62	0.09	0.11	0.58	0.11	0.50
Benzo(a)pyrene	mg/kg	0.15	0.04	0.04	4.05	0.06	0.07	0.43	0.10	0.48
Benzo(b)fluoranthene	mg/kg	0.19	0.05	0.05	6.28	0.09	0.12	0.56	0.11	0.76
Benzo(ghi)perylene	mg/kg	0.11	0.05	0.05	2.42	0.05	0.05	0.20	0.05	0.31
Benzo(k)fluoranthene	mg/kg	0.07	0.07	0.07	1.97	0.07	0.07	0.24	0.07	0.29
Chrysene	mg/kg	0.16	0.06	0.06	5.48	0.09	0.16	0.57	0.12	0.58
Dibenzo(ah)anthracene	mg/kg	0.04	0.04	0.04	0.50	0.04	0.04	0.04	0.04	0.09
Fluoranthene	mg/kg	0.25	0.08	0.08	8.76	0.15	0.21	1.34	0.25	1.34
Fluorene	mg/kg	0.01	0.01	0.01	0.18	0.01	0.01	0.04	0.01	0.11
Indeno(123cd)pyrene	mg/kg	0.14	0.03	0.03	2.70	0.04	0.03	0.23	0.05	0.37
Naphthalene	mg/kg	0.03	0.03	0.03	0.10	0.03	0.03	0.03	0.03	0.03
Phenanthrene	mg/kg	0.12	0.03	0.03	3.33	0.04	0.10	0.62	0.17	0.93
Pyrene	mg/kg	0.20	0.07	0.07	9.20	0.12	0.18	1.25	0.20	1.10
Coronene	mg/kg	0.05	0.01	0.01	0.45	0.01	0.01	0.04	0.01	0.07
Total PAHs (16 or 17)	mg/kg									
TPH										
Petrol	mg/kg									
Diesel	mg/kg									
Lube Oil	mg/kg									
Crude Oil	mg/kg									
White Spirit / Kerosene	mg/kg									
Creosote	mg/kg									
Unknown TPH with ID	mg/kg	38.0	10.0	64.0	830.0	14.0	58.0	567.0	84.0	400.0
Unknown TPHCWG	mg/kg									
Total Sulphide	mg/kg									
Complex Cyanide	mg/kg									
Free (or Total) Cyanide	mg/kg									
Thiocyanate	mg/kg									
Elemental/Free Sulphur	mg/kg									
Phenols Input Total Phenols HPLC **OR** individual Phenol results.										
Phenol	mg/kg									
Cresols	mg/kg									
Xylenols	mg/kg									
Resourcinol	mg/kg									
Phenols Total by HPLC	mg/kg									
BTEX Input Total BTEX **OR** individual BTEX results.										
Benzene	mg/kg									
Toluene	mg/kg									
Ethylbenzene	mg/kg									
Xylenes	mg/kg									
Total BTEX	mg/kg									
PCBs (POPs)										
PCBs Total (eg EC7/WHO12)	mg/kg									
PBBs (POPs)										
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)	mg/kg									

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Haswaste, developed by Dr. Iain Haslock.

371654
Ugly Brown Building

						WAC	WAC		WAC
TP/WS/BH	BH11	BH12A	WS1	WS4	BH13	WS6	BH15	BH15	BH10
Depth (m)	0.70	2.50	0.40	0.70	0.70	0.60	1.50	4.50	2.00
Envirolab reference	19/00718/10	19/00718/14	19/01010/1	19/01010/6	19/01010/10	19/01010/12	19/01010/13	19/01010/16	19/01381/1
POPs Dioxins and Furans Input Total Dioxins and Furans **OR** individual Dioxin and Furan results.									
2,3,7,8-TeCDD	mg/kg								
1,2,3,7,8-PeCDD	mg/kg								
1,2,3,4,7,8-HxCDD	mg/kg								
1,2,3,6,7,8-HxCDD	mg/kg								
1,2,3,7,8,9-HxCDD	mg/kg								
1,2,3,4,6,7,8-HpCDD	mg/kg								
OCDD	mg/kg								
2,3,7,8-TeCDF	mg/kg								
1,2,3,7,8-PeCDF	mg/kg								
2,3,4,7,8-PeCDF	mg/kg								
1,2,3,4,7,8-HxCDF	mg/kg								
1,2,3,6,7,8-HxCDF	mg/kg								
2,3,4,6,7,8-HxCDF	mg/kg								
1,2,3,7,8,9-HxCDF	mg/kg								
1,2,3,4,6,7,8-HpCDF	mg/kg								
1,2,3,4,7,8,9-HpCDF	mg/kg								
OCDF	mg/kg								
Total Dioxins and Furans	mg/kg								
Some Pesticides (POPs unless otherwise stated)									
Aldrin	mg/kg								
α Hexachlorocyclohexane (alpha-HCH) *(leave empty if total HCH results used)*	mg/kg								
β Hexachlorocyclohexane (beta-HCH) *(leave empty if total HCH results used)*	mg/kg								
α Cis-Chlordane (alpha) ***OR*** *Total Chlordane*	mg/kg								
δ Hexachlorocyclohexane (delta-HCH) *(leave empty if total HCH results used)*	mg/kg								
Dieldrin	mg/kg								
Endrin	mg/kg								
χ Hexachlorocyclohexane (gamma-HCH) (lindane) ***OR*** *Total HCH*	mg/kg								
Heptachlor	mg/kg								
Hexachlorobenzene	mg/kg								
o,p'-DDT *(leave empty if total DDT results used)*	mg/kg								
p,p'-DDT ***OR*** *Total DDT*	mg/kg								
χ Trans-Chlordane (gamma) *(leave empty if total Chlordane results used)*	mg/kg								
Chlordecone (kepone)	mg/kg								
Pentachlorobenzene	mg/kg								
Mirex	mg/kg								
Toxaphene (camphechlor)	mg/kg								
Tin									
Tin *(leave empty if Organotin and Tin excl Organotin results used)*	mg/kg								
Organotin									
Dibutyltin; DiBT	mg/kg								
Tributyltin; TriBT	mg/kg								
Triphenyltin; TriPT	mg/kg								
Tetrabutyltin; TeBT	mg/kg								
Tin excluding Organotin									
Tin excl Organotin	mg/kg								

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Ugly Brown Building

						WAC	WAC		WAC
TP/WS/BH		BH11	BH12A	WS1	WS4	BH13	WS6	BH15	BH15	BH10
Depth (m)		0.70	2.50	0.40	0.70	0.70	0.60	1.50	4.50	2.00
Envirolab reference		19/00718/10	19/00718/14	19/01010/1	19/01010/6	19/01010/10	19/01010/12	19/01010/13	19/01010/16	19/01381/1
Asbestos in Soil	Thresholds									
Asbestos detected in Soil (enter Y or N)	Y	N	N	N	Y	Y	N	N	N	N
		If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7								
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%								
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) *Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.*	≥0.1%	0.00000	0.00000	0.00000	0.00100	0.00100	0.00000	0.00000	0.00000	0.00000
		If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.								
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y									

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05.
Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.								
Corrosive HP8	≥5%	<1%	0.00052	0.00053	0.00110	0.00043	0.00026	0.00076	0.00063	0.00039	0.00101
Irritant HP4	≥10%	<1%	0.00292	0.00218	0.00443	0.02881	0.00387	0.01509	0.00283	0.00118	0.00432
Irritant HP4	≥20%	<1%	0.00438	0.00420	0.00655	0.03486	0.00837	0.01849	0.00485	0.00546	0.01133
Specifc Target Organ Toxicity HP5	≥1%		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Specifc Target Organ Toxicity HP5	≥20%		0.00001	0.00000	0.00000	0.00031	0.00000	0.00001	0.00005	0.00001	0.00008
Specifc Target Organ Toxicity HP5	≥1%		0.00177	0.00236	0.00304	0.00495	0.00459	0.00396	0.00230	0.00446	0.00767
Specifc Target Organ Toxicity HP5	≥10%		0.00395	0.00450	0.00566	0.07827	0.00203	0.00784	0.04956	0.00714	0.03232
Aspiration Toxicity HP5	≥10%		0.00333	0.00090	0.00566	0.07827	0.00114	0.00517	0.04956	0.00714	0.03232
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.25%	<0.1%	0.00042	0.00037	0.00095	0.00029	0.00012	0.00060	0.00067	0.00024	0.00090
Acute Toxicity HP6	≥5%	<0.1%	0.00029	0.00030	0.00029	0.00031	0.00027	0.00042	0.00029	0.00028	0.00027
Acute Toxicity HP6	≥25%	<1%	0.00837	0.00874	0.01191	0.05926	0.01044	0.02637	0.01799	0.00806	0.03554
Acute Toxicity HP6	≥0.25%	<0.1%	0.00008	0.00002	0.00002	0.00005	0.00001	0.00002	0.00021	0.00001	0.00004
Acute Toxicity HP6	≥2.5%	<0.1%	0.00017	0.00017	0.00017	0.00018	0.00016	0.00017	0.00017	0.00016	0.00016
Acute Toxicity HP6	≥15%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥55%	<1%	0.00004	0.00004	0.00004	0.00007	0.00004	0.00004	0.00004	0.00004	0.00006
Acute Toxicity HP6	≥0.1%	<0.1%	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Acute Toxicity HP6	≥0.5%	<0.1%	0.00029	0.00024	0.00023	0.00029	0.00021	0.00023	0.00042	0.00022	0.00026
Acute Toxicity HP6	≥3.5%	<0.1%	0.00012	0.00013	0.00012	0.00013	0.00011	0.00025	0.00012	0.00012	0.00011
Acute Toxicity HP6	≥22.5%	<1%	0.00829	0.00868	0.01185	0.05803	0.01038	0.02630	0.01778	0.00797	0.03530
Carcinogenic HP7	≥0.1%		0.00395	0.00450	0.00531	0.02452	0.00459	0.00784	0.01311	0.00446	0.02416
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00001	0.00000	0.00000	0.00025	0.00000	0.00000	0.00002	0.00000	0.00003
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		33.33	8.99	56.64	782.69	11.37	51.68	495.56	71.40	323.20
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		0.34618	0.35960	0.05531	0.46014	0.34800	0.10753	0.06628	0.10119	0.09696
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		9.18	9.38	7.72	8.84	8.44	9.07	9.49	9.15	12.13
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		9.18	9.38	7.72	8.84	8.44	9.07	9.49	9.15	12.13
Toxic for Reproduction HP10	≥0.3%		0.00395	0.00450	0.00531	0.02452	0.00459	0.00784	0.01311	0.00446	0.02416
Toxic for Reproduction HP10	≥3%		0.00333	0.00090	0.00566	0.07827	0.00114	0.00517	0.04956	0.00714	0.03232
Mutagenic HP11	≥0.1%		0.00017	0.00017	0.00017	0.00038	0.00016	0.00017	0.00017	0.00016	0.00016
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		33.33	8.99	56.64	782.69	11.37	51.68	495.56	71.40	323.20
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		0.34618	0.35960	0.05531	0.46014	0.34800	0.10753	0.06628	0.10119	0.09696
Mutagenic HP11	≥1%		0.00177	0.00236	0.00304	0.00495	0.00459	0.00396	0.00230	0.00446	0.00767
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HP13 Sensitising	≥10%		0.00177	0.00236	0.00304	0.00495	0.00459	0.00396	0.00230	0.00446	0.00767

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Ugly Brown Building

							WAC	WAC		WAC
TP/WS/BH			BH11	BH12A	WS1	WS4	BH13	WS6	BH15	BH15	BH10
Depth (m)			0.70	2.50	0.40	0.70	0.70	0.60	1.50	4.50	2.00
Envirolab reference			19/00718/10	19/00718/14	19/01010/1	19/01010/6	19/01010/10	19/01010/12	19/01010/13	19/01010/16	19/01381/1
Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01752	0.01316	0.01994	0.08119	0.01718	0.03572	0.02827	0.01216	0.05243
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.02085	0.01406	0.02560	0.15946	0.01832	0.04089	0.07783	0.01930	0.08475
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	1.78522	1.32549	2.05055	8.90201	1.72940	3.62361	3.32286	1.28716	5.56607
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

If other contaminants need adding to Haswaste, please contac