

## Appendix 9.4 - Soil Waste Classification Model Inputs and Results.



**Model Inputs**

Site Name:	5214419 - Harbour Point SHD - Coastal Quarter
Site Location:	Harbour Point SHD - Coastal Quarter
Site ID:	5214419 - Harbour Point SHD - Coastal Quarter
Job No:	5214419
Date:	13.04.2021
User:	Julie Larkin
Company Name:	Atkins

Sample Ref >>>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Depth (m) >>>	WS01A	WS01B	WS02A	WS02B	WS03A	WS03A	WS04A	WS04B	WS05A	WS05B	WS10B	TP202	TP203	TP205	TP208	TP209	TP211	BH212	BH219	BH224
Compound / Element	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)	Sample Concentration (mg/kg)
Manganese																				
Mercury	0.10	0.13	0.10	0.10	0.14	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.10	0.10	0.13	0.1	0.10	0.10	0.10
Nickel	26	41	23	36	31	18	23	33	31	22	26	21	24	28	25	16	23	19	35	34
Selenium	0.20	1.1	0.20	0.37	0.37	0.20	0.53	0.42	0.22	0.28	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.22	0.60
Zinc	43	73	41	96	78	25	69	67	90	69	41	58	83	64	68	68	61	37	81	120
Vanadium																				
Free Cyanide																				
Thiocyanate																				
Chlordane																				
Dieldrin																				
Endrin																				
Heptachlor																				
Hexachlorobenzene	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Chlordecone																				
Aldrin																				
Pentachlorobenzene																				
Mirex																				
Toxaphene																				
Hexabromobiphenyl																				
2,3,7,8-TeCDD																				
1,2,3,7,8-PeCDD																				
1,2,3,4,7,8-HxCDD																				
1,2,3,6,7,8-HxCDD																				
1,2,3,7,8,9-HxCDD																				
1,2,3,4,6,7,8-HpCDD																				
OCDD																				
1,2,3,6,7,8-HxCDF																				
1,2,3,7,8,9-HxCDF																				
2,3,4,6,7,8-HxCDF																				
1,2,3,4,6,7,8-HpCDF																				
1,2,3,4,7,8,9-HpCDF																				
OCDF																				
2,3,7,8-TeCDF																				
1,2,3,7,8-PeCDF																				
2,3,4,7,8-PeCDF																				
1,2,3,4,7,8-HxCDF																				

<b>Site Name</b>	5214419 - Harbour Point SHD - Coastal Quarter
<b>Location</b>	Harbour Point SHD - Coastal Quarter
<b>Site ID</b>	5214419 - Harbour Point SHD - Coastal Quarter
<b>Job Number</b>	5214419
<b>Date</b>	13/04/2021
<b>User Name</b>	Julie.Larkin@atkinsglobal.com
<b>Company Name</b>	Atkins

Hole ID	Sample Depth	Hazardous Waste Y/N	HP1	HP2	HP3	HP4	HP5	HP6	HP7	HP8	HP9	HP10	HP11	HP12	HP13	HP14	HP15	HP16
WS01A	0.90 - 2.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS01B	0.30 - 0.70 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS02A	0.55 - 1.80 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS02B	0.25 - 0.75 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS03A	0.25 - 0.65 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS03A	0.65 - 1.55 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS04A	0.85 - 1.70 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS04B	3.00 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS05A	0.20 - 1.00 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS05B	2.00 - 3.00 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
WS10B	0.70 - 2.00 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP202	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP203	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP205	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP208	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP209	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
TP211	0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH212	0.50 - 0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH219	1.50 - 1.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
BH224	0.50 - 0.50 m	N	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No

**Notes - Additional Information on Hazard Properties**

Hazardous Property	Description	Hazard Statement	Note
HP1	Explosive	H200, H201, H202, H203, H204, H240 and H241	A waste is assessed for HP1 via test methods, rather than a concentration limit. If you have substances or a mixture containing explosive properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP2	Oxidising	H270, H271, H272	A waste is assessed for HP2 via test methods, rather than a concentration limit. If you have substances or a mixture containing oxidising properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP3	Flammable	H220 to H226, H228, H242, H250, H251m H252, H260, H261	A waste is assessed for HP3 via test methods, rather than a concentration limit. If you have substances or a mixture containing flammable properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria. If a waste contains either H220, H221, H260 or H261 a calculation can be performed to identify the minimum amount of that substance that will trigger HP3.
HP5	Specific Target Organ Toxicity (STOT)	H304	Should a waste contain two or more compounds displaying H304 (Asp. Tox 1) and equal or exceed its specific concentration limit of 10%, then a waste will be hazardous by HP5 if its kinematic viscosity exceeds 20.5 mm <sup>2</sup> /s. Guidance should be sought from the CLP Criteria.
HP9	Infectious	N/A	A waste is assessed for HP9 via further testing, rather than a concentration limit. In cases where there is the potential for toxins to be present, further testing will be required. For healthcare waste reference should be made to the Department of health guidance: Safe management of healthcare waste.
HP12	Release of acute toxic gas	EUH029, EUH031, EUH032, H260 or H261	A waste is assessed for HP12 via test methods, rather than a concentration limit. If you have substances or a mixture that may release acute toxic gas the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP15	Explosive or explosive properties	H205, EUH001, EUH019 or EUH044	A waste is assessed for HP15 via test methods, rather than a concentration limit. If you have substances or a mixture that may exhibit explosive or explosive properties the waste should be tested in accordance with the European Chemical Agency's guidance on the application of the CLP Criteria.
HP16	Persistent organic pollutants	N/A	A waste is considered hazardous if the concentration of one or more compound (persistent organic pollutant) as listed in Appendix C of Environment Agency guidance WM3 is above its assigned concentration limit. For reference for dioxins and furans, this assessment incorporates the use of specific toxicity equivalent factors.