

Appendix 8.3 Summary of Chemical Screening Result and Disposal Option

Sample ID	Sub-sample Depth (mPD)		Sub-sample Depth (m blg)		LMW PAHs ¹	HMW PAHs ²	Total PCB ³	Cd	Cr	Cu	Ni	Pb	Zn	Hg	As	Ag	TBT ⁴	Overall Classification	Sample require Biological Test?	Biological Test Pass? ⁵	Disposal Option ⁶
	From	To	From	To	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L				
LCEL					550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15				
UCEL					3160	9600	180	4	160	110	40	110	270	1	42	2	0.15				
TKO-EBH501 ⁷	-7.4	-8.35	3	3.95	<550	<1700	<183	7.7	66	131	22	699	6770	0.50	7	2.2	IS	Category H	Yes	Fail	Type 3
	-8.4	-9.35	4	4.95	<550	<1700	<3	0.2	19	7	14	23	342	<0.05	2	<0.1	IS	Category H	No	NA	Type 2
	-9.4	-10.3	5	5.9	<550	<1700	<u>≤60</u>	<u>3.4</u>	20	30	9	194	1540	0.13	1	0.6	IS	Category H	No	NA	Type 2
	-12.3	-13.3	7.9	8.9	<550	<1700	<3	1.0	13	3	6	16	88	<0.05	8	<0.1	IS	Category L	No	NA	Type 1
TKO-EBH502	-5.35	-6.15	0.15	0.95	<550	<1700	<3	<0.2	2	6	<1	56	<u>242</u>	<0.05	2	0.2	IS	Category M	Yes	Pass	Type 1*
	-6.2	-6.65	1	1.45	<550	<1700	<3	<0.2	<1	3	1	172	89	<0.05	3	0.2	IS	Category H	No	NA	Type 2
	-7.2	-7.65	2	2.45	<550	<1700	<3	<0.2	2	3	<1	<u>90</u>	93	<0.05	2	0.1	IS	Category M	Yes	Pass	Type 1*
	-8.2	-9.1	3	3.9	<550	<1700	<3	<0.2	14	5	9	13	58	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
TKO-VC503	-11.1	-12.1	5.9	6.9	<550	<1700	<3	<0.2	12	4	7	14	34	<0.05	6	<0.1	IS	Category L	No	NA	Type 1
	-6.9	-7.8	0	0.9	<550	<1700	<u>≤76</u>	1.5	37	60	20	140	954	<0.05	6	0.6	0.027	Category H	No	NA	Type 2
	-7.8	-8.8	0.9	1.9	<550	<1700	<3	<0.2	10	4	14	10	26	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-8.8	-9.8	1.9	2.9	<550	<1700	<3	<0.2	9	3	11	8	21	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-10.7	-10.9	3.8	4	<550	<1700	<3	<0.2	36	10	24	21	94	<0.05	5	0.1	IS	Category L	No	NA	Type 1
TKO-VC504c	-12.9	-13.9	6	7	<550	<1700	<3	<0.2	15	5	10	19	37	<0.05	7	0.1	IS	Category L	No	NA	Type 1
	-7.2	-7.4	0.7	0.9	<550	<1700	<3	<0.2	9	11	6	21	55	0.07	<1	0.2	IS	Category L	No	NA	Type 1
	-7.4	-8.4	0.9	1.9	<550	<1700	<3	<0.2	2	2	1	12	16	<0.05	<1	<0.1	IS	Category L	No	NA	Type 1
	-8.4	-9.4	1.9	2.9	<550	<1700	<3	<0.2	8	3	7	7	21	<0.05	<1	<0.1	IS	Category L	No	NA	Type 1
	-9.4	-10.4	2.9	3.9	<550	<1700	<3	<0.2	8	3	7	7	22	<0.05	<1	<0.1	IS	Category L	No	NA	Type 1
	-12.5	-13.5	6	7	<550	<1700	<3	<0.2	7	4	4	8	48	<0.05	1	<0.1	IS	Category L	No	NA	Type 1
TKO-VC506a	-15.5	-16.5	9	10	<550	<1700	<3	<0.2	14	5	10	16	36	<0.05	4	<0.1	IS	Category L	No	NA	Type 1
	-5.90	-6.20	0	0.3	<550	<1700	<3	0.2	10	18	5	74	90	<0.05	<u>18</u>	0.5	IS	Category M	Yes	Pass	Type 1*
TKO-VC507	-6.6	-7.5	0	0.9	<550	<1700	<3	0.6	<u>88</u>	<u>93</u>	30	<u>78</u>	692	0.17	11	0.8	IS	Category H	No	NA	Type 2
	-7.5	-8.5	0.9	1.9	<550	<1700	<3	<0.2	9	14	5	26	110	<0.05	4	0.2	IS	Category L	No	NA	Type 1
	-8.5	-9.5	1.9	2.9	<550	<1700	<3	<0.2	6	2	4	6	16	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-9.5	-10.5	2.9	3.9	<550	<1700	<3	<0.2	16	4	10	<1	36	<0.05	3	<0.1	IS	Category L	No	NA	Type 1
	-12.8	-13.5	6.2	6.9	<550	<1700	<3	<0.2	17	5	11	11	43	<0.05	3	<0.1	IS	Category L	No	NA	Type 1
	-15.5	-16	8.9	9.4	<550	<1700	<3	<0.2	9	3	5	14	31	<0.05	5	<0.1	IS	Category L	No	NA	Type 1

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Sample ID	Sub-sample Depth (mPD)		Sub-sample Depth (m blg)		LMW PAHs ¹	HMW PAHs ²	Total PCB ³	Cd	Cr	Cu	Ni	Pb	Zn	Hg	As	Ag	TBT ⁴	Overall Classification	Sample require Biological Test?	Biological Test Pass? ⁵	Disposal Option ⁶
	From	To	From	To	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L				
LCEL					550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15				
UCEL					3160	9600	180	4	160	110	40	110	270	1	42	2	0.15				
TKO-VC508	-7.7	-8.6	0	0.9	<550	<1700	<3	<0.2	12	4	8	8	30	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-8.6	-9.6	0.9	1.9	<550	<1700	<3	<0.2	11	3	8	8	27	<0.05	<1	<0.1	IS	Category L	No	NA	Type 1
	-9.6	-10.6	1.9	2.9	<550	<1700	<3	<0.2	23	6	17	13	49	<0.05	3	<0.1	IS	Category L	No	NA	Type 1
	-10.6	-11.6	2.9	3.9	<550	<1700	<3	<0.2	22	6	15	12	47	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-13.6	-14.6	5.9	6.9	<550	<1700	<3	<0.2	31	10	22	18	71	<0.05	4	<0.1	IS	Category L	No	NA	Type 1
TKO-VC510	-16.6	-17.6	8.9	9.9	<550	<1700	<3	<0.2	23	8	16	33	59	<0.05	13	0.2	IS	Category M	Yes	Fail	Type 2
	-7.9	-8.6	0.2	0.9	<550	<1700	<3	<0.2	33	15	16	18	77	0.05	6	0.1	IS	Category L	No	NA	Type 1
	-8.6	-8.9	0.9	1.2	<550	<1700	<3	<0.2	18	7	9	14	48	<0.05	6	<0.1	IS	Category L	No	NA	Type 1
	-9.6	-10.6	1.9	2.9	<550	<1700	<3	<0.2	24	7	13	14	49	<0.05	6	<0.1	IS	Category L	No	NA	Type 1
	-10.6	-11.6	2.9	3.9	<550	<1700	<3	<0.2	18	5	9	10	36	<0.05	7	<0.1	IS	Category L	No	NA	Type 1
	-13.6	-13.9	5.9	6.2	<550	<1700	<3	<0.2	32	9	19	21	68	<0.05	6	<0.1	IS	Category L	No	NA	Type 1
TKO-VC511	-14.4	-15.6	6.7	7.9	<550	<1700	<3	<0.2	21	6	12	16	46	<0.05	7	<0.1	IS	Category L	No	NA	Type 1
	-16.6	-17.6	8.9	9.9	<550	<1700	<3	<0.2	6	4	4	23	30	<0.05	8	<0.1	IS	Category L	No	NA	Type 1
	-10.5	-11.2	0.2	0.9	<550	<1700	<3	<0.2	33	9	27	19	79	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
	-11.2	-12.2	0.9	1.9	<550	<1700	<3	<0.2	34	10	27	19	79	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
	-12.2	-13.2	1.9	2.9	<550	<1700	<3	<0.2	34	10	26	20	73	<0.05	4	<0.1	IS	Category L	No	NA	Type 1
TKO-VC519	-14.1	-14.3	3.8	4	<550	<1700	<3	<0.2	35	9	23	23	69	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
	-16.3	-17.3	6	7	<550	<1700	<3	<0.2	42	12	25	32	77	<0.05	8	0.1	IS	Category L	No	NA	Type 1
	-10.7	-11.5	0.1	0.9	<550	<1700	<3	<0.2	23	15	15	44	86	0.39	6	0.2	IS	Category L	No	NA	Type 1
	-11.5	-12.5	0.9	1.9	<550	<1700	<3	<0.2	31	8	22	18	72	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
TKO-VC519	-12.9	-13.6	2.3	3	<550	<1700	<3	<0.2	33	9	23	20	74	<0.05	4	<0.1	IS	Category L	No	NA	Type 1
	-13.6	-14.6	3	4	<550	<1700	<3	<0.2	37	10	24	24	79	<0.05	7	0.1	IS	Category L	No	NA	Type 1

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	From	To	From	To	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/L				
LCEL					550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15				
UCEL					3160	9600	180	4	160	110	40	110	270	1	42	2	0.15				
TKO-VC520	-11.35	-11.5	0.75	0.9	<550	<1700	<3	0.5	33	<u>75</u>	13	62	381	<u>0.94</u>	6	0.6	IS	Category H	No	NA	Type 2
	-11.5	-12.5	0.9	1.9	<550	<1700	<3	<0.2	38	10	25	19	82	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
	-12.5	-13.5	1.9	2.9	<550	<1700	<3	<0.2	35	9	23	21	73	<0.05	4	<0.1	IS	Category L	No	NA	Type 1
	-13.5	-14.5	2.9	3.9	<550	<1700	<3	<0.2	39	10	25	24	80	<0.05	6	0.1	IS	Category L	No	NA	Type 1
	-16.6	-17.6	6	7	<550	<1700	<3	<0.2	37	10	24	22	74	<0.05	5	0.1	IS	Category L	No	NA	Type 1
TKO-VCC502	-4.2	-4.7	0	0.5	<550	<1700	<3	<0.2	6	2	3	6	14	<0.05	5	<0.1	IS	Category L	No	NA	Type 1
	-4.7	-5.7	0.5	1.5	<550	<1700	<3	<0.2	7	2	2	12	20	<0.05	3	<0.1	IS	Category L	No	NA	Type 1
TKO-VCC503a	-7	-7.4	0.5	0.9	<550	<1700	<3	<0.2	19	28	12	24	92	<0.05	<u>14</u>	0.2	IS	Category M	Yes	Fail	Type 2
	-7.4	-8.4	0.9	1.9	<550	<1700	<3	<0.2	6	4	3	17	27	0.08	<1	<0.1	IS	Category L	No	NA	Type 1
	-8.4	-9.4	1.9	2.9	<550	<1700	<3	<0.2	5	2	2	9	19	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
	-9.4	-9.9	2.9	3.4	<550	<1700	<3	<0.2	4	2	2	8	19	<0.05	2	<0.1	IS	Category L	No	NA	Type 1
Reference	Grab sample				<550	<1700	<3	<0.2	35	16	23	32	89	<0.05	9	0.2	<0.015	Category L	No	NA	Type 1

Notes:

- LMW PAHs - Low molecular weight PAHs included acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene and phenanthrene.
 - HMW PAHs - High molecular weight PAHs included benzo[a]anthracene, benzo[a]pyrene, chrysene, dibenzo[a,h]anthracene, flouranthene, pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.
 - Total PCBs includes 2,4' diCB, 2,2',5' triCB, 2,4,4'triCB, 2,2'3,5' tetraCB, 2,2',5,5' tetraCB, 2,3',4,4' tetraCB, 3,3',4,4' tetraCB, 2,2',4,5,5' pentaCB, 2,3,3',4,4' pentaCB, 2,3'4,4',5 pentaCB, 3,3'4,4'5 pentaCB, 2,2',3,3',4,4' hexaCB, 2,2',3,4,4',5' hexaCB, 2,2',4,4',5,5' hexaCB, 3,3',4,4',5,5' hexaCB, 2,2',3,3',4,4',5 heptaCB, 2,2',3,4,4',5,5' heptaCB, 2,2',3,4,4',5,5',6 heptaCBpyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.
 - NT: Inability to conduct TBT analysis due to insufficient interstitial water.
 - Refer to Appendix 8.5 for details of biological testing result.
 - Type 1: Open Sea Disposal
Type 1*: Open Sea Disposal (Dedicated Site)
Type 2: Confined Marine Disposal
Type 3: Special Treatment / Disposal
 - The top 3 metre of TKO-EBH501 is fill material. Chemical testing at 0-3 m was not conducted
- ^ Underlined value indicates exceedance of LCEL.
 Bolded value indicates exceedance of UCEL.
 Bolded and underlined value indicates that the value exceeds 10 times of LCEL.
 NA: Not Applicable