

Summary of Chemical Screening Results and Disposal Options

Sample ID	Sampling Date	Sub-sample Depth (mPD)		Sub-sample Depth (m bgl)		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 TBT/L					
Lower Chemical Exceedance Level (LCEL)						550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15					
Upper Chemical Exceedance Level (UCEL)						3160	9600	180	4	160	110	40	110	270	1	42	2	0.15					
Land-based																							
1530-TME-EDH501	10-May-2021	-12.34	-13.34	16.80	17.80	<550	<1700	<18	<0.2	31	14	12	27	82	0.05	9	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH501	10-May-2021	-13.34	-14.34	17.80	18.80	<550	<1700	<18	<0.2	29	15	12	27	300	<0.05	8	<0.1	<0.015	Category H	No	NA	Type 2	
1530-TME-EDH502	20-Apr-2021	-11.62	-12.12	16.50	17.00	<550	<1700	<18	<0.2	36	18	14	36	80	0.08	11	0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH503(P)	15-Apr-2021	-16.85	-17.35	20.80	21.30	<550	<1700	<18	<0.2	16	39	10	40	106	<0.05	5	0.2	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH504	31-Mar-2021	-9.00	-9.50	13.40	13.90	<550	<1700	<18	<0.2	28	13	17	40	59	<0.05	11	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH504	31-Mar-2021	-9.50	-10.50	13.90	14.90	<550	<1700	<18	<0.2	27	13	17	37	86	<0.05	10	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH504	31-Mar-2021	-10.50	-11.50	14.90	15.90	<550	<1700	<18	<0.2	28	21	17	40	197	<0.05	12	<0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH504	1-Apr-2021	-11.50	-12.50	15.90	16.90	<550	<1700	<18	<0.2	15	10	7	21	60	<0.05	16	<0.1	<0.015	Category M	Yes	Pass	Type 1*	
1530-TME-EDH504	1-Apr-2021	-12.50	-13.50	16.90	17.90	<550	<1700	<18	<0.2	12	8	5	16	103	<0.05	11	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH504	1-Apr-2021	-13.50	-14.00	17.90	18.40	<550	<1700	<18	<0.2	12	8	5	16	36	<0.05	11	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH505	11-Mar-2021	-4.87	-5.87	9.00	10.00	<550	<1700	<18	<0.2	17	16	10	38	99	<0.05	6	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH505	12-Mar-2021	-5.87	-6.87	10.00	11.00	<550	<1700	<18	<0.2	11	12	4	153	90	<0.05	3	0.1	<0.015	Category H	No	NA	Type 2	
1530-TME-EDH505	12-Mar-2021	-6.87	-7.87	11.00	12.00	<550	<1700	<18	0.2	52	64	22	70	138	0.10	13	0.6	<0.015	Category M	Yes	Pass	Type 1*	
1530-TME-EDH507	17-Mar-2021	-13.04	-14.04	17.10	18.10	<550	<1700	<18	<0.2	18	17	8	84	75	<0.05	5	0.1	<0.015	Category M	Yes	Pass	Type 1*	
1530-TME-EDH507	17-Mar-2021	-14.04	-14.54	18.10	18.60	<550	<1700	<18	<0.2	14	13	6	55	37	<0.05	6	0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH507	17-Mar-2021	-15.04	-16.04	19.10	20.10	<550	<1700	<18	<0.2	19	18	8	100	186	<0.05	5	0.2	<0.015	Category M	Yes	Pass	Type 1*	
1530-TME-EDH509	21-Apr-2021	-5.04	-5.54	10.50	11.00	<550	<1700	<18	<0.2	32	12	22	32	121	<0.05	10	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH111	17-Jun-2021	-3.90	-4.90	9.00	10.00	<550	<1700	<18	<0.2	15	5	9	17	110	<0.05	6	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH111	17-Jun-2021	-4.90	-5.90	10.00	11.00	<550	<1700	<18	<0.2	21	8	14	22	73	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH111	17-Jun-2021	-5.90	-6.90	11.00	12.00	<550	<1700	<18	<0.2	27	10	17	27	70	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH510(P)	17-May-2021	-3.17	-3.67	8.50	9.00	<550	<1700	<18	<0.2	10	4	7	13	34	<0.05	5	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH510(P)	17-May-2021	-4.67	-5.67	9.00	10.00	<550	<1700	<18	<0.2	22	10	16	26	67	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH510(P)	17-May-2021	-5.67	-6.67	10.00	11.00	<550	<1700	<18	<0.2	25	10	17	28	70	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH510(P)	17-May-2021	-6.67	-7.67	11.00	12.00	<550	<1700	<18	<0.2	29	12	20	33	76	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH510(P)	18-May-2021	-6.67	-7.17	12.00	12.50	<550	<1700	<18	<0.2	31	12	21	35	74	0.05	8	<0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH511	3-Jun-2021	-5.74	-6.24	10.50	11.00	<550	<1700	<18	<0.2	7	4	4	11	25	<0.05	3	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH511	3-Jun-2021	-6.24	-7.24	11.00	12.00	<550	<1700	<18	<0.2	25	10	15	33	65	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH511	3-Jun-2021	-7.24	-8.24	12.00	13.00	<550	<1700	<18	<0.2	24	9	15	32	79	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH114	18-Jun-2021	-4.20	-5.20	9.00	10.00	<550	<1700	<18	<0.2	5	3	3	8	49	<0.05	3	<0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH114	18-Jun-2021	-5.20	-6.20	10.00	11.00	<550	<1700	<18	<0.2	33	12	21	30	80	<0.05	11	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH114	18-Jun-2021	-6.20	-7.20	11.00	12.00	<550	<1700	<18	<0.2	33	12	21	30	77	<0.05	9	<0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH114	18-Jun-2021	-7.20	-8.20	12.00	13.00	<550	<1700	<18	<0.2	34	13	22	32	550	<0.05	8	<0.1	<0.015	Category H	No	NA	Type 2	
1530-TME-EDH512	24-May-2021	-6.65	-7.65	11.00	12.00	<550	<1700	<18	<0.2	33	12	22	32	80	<0.05	9	<0.1	IS	Category L	No	NA	Type 1	
1530-TME-EDH512	24-May-2021	-7.65	-8.65	12.00	13.00	<550	<1700	<18	<0.2	35	13	23	35	120	0.05	9	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH512	24-May-2021	-8.65	-9.65	13.00	14.00	<550	<1700	<18	<0.2	28	11	19	27	148	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH512	24-May-2021	-9.65	-10.65	14.00	15.00	<550	<1700	<18	<0.2	18	6	10	21	81	<0.05	6	<0.1	<0.015	Category L	No	NA	Type 1	
1530-TME-EDH512	24-May-2021	-10.65	-11.65	15.00	16.00	<550	<1700	<18	<0.2	9	3	4	14	14	<0.05	4	<0.1	<0.015	Category L	No	NA	Type 1	

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Sample ID	Sampling Date	Sub-sample Depth (mPD)		Sub-sample Depth (m bgl)		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 TBT/L				
Lower Chemical Exceedance Level (LCEL)						550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15				
Upper Chemical Exceedance Level (UCEL)						3160	9600	180	4	160	110	40	110	270	1	42	2	0.15				
River-based																						
1530-TME-MEDH602	25-Mar-2021	-8.84	-9.84	9.00	10.00	<550	<1700	<18	<0.2	21	11	13	38	54	<0.05	9	<0.1	IS	Category L	No	NA	Type 1
1530-TME-MEDH602	25-Mar-2021	-9.84	-10.84	10.00	11.00	<550	<1700	<18	<0.2	20	10	10	32	58	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH602	25-Mar-2021	-10.84	-11.34	11.00	11.50	<550	<1700	<18	<0.2	11	5	4	14	35	<0.05	6	<0.1	IS	Category L	No	NA	Type 1
1530-TME-MEDH603	19-Jul-2021	-13.10	-14.10	13.50	14.50	<550	<1700	<18	<0.2	25	10	16	29	75	<0.05	9	<0.1	IS	Category L	No	NA	Type 1
1530-TME-MEDH604	2-Jul-2021	-13.35	-14.35	14.00	15.00	<550	<1700	<18	<0.2	17	8	7	18	43	<0.05	5	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH604	2-Jul-2021	-14.35	-15.35	15.00	16.00	<550	<1700	<18	<0.2	18	8	6	18	78	<0.05	5	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH605	7-Jun-2021	-16.64	-17.64	17.50	18.50	<550	<1700	<18	<0.2	14	11	7	21	66	<0.05	5	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH608	10-May-2021	-9.98	-10.93	8.60	9.55	<550	<1700	<18	<0.2	26	11	18	28	68	<0.05	7	<0.1	IS	Category L	No	NA	Type 1
1530-TME-MEDH608	10-May-2021	-10.98	-11.93	9.60	10.55	<550	<1700	<18	<0.2	22	9	16	27	89	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH609	19-Apr-2021	-4.72	-5.67	2.00	2.95	<550	<1700	<18	<0.2	31	20	16	31	91	<0.05	9	0.2	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH612	8-Apr-2021	-8.50	-9.45	5.30	6.25	<550	<1700	<18	<0.2	21	11	12	36	109	<0.05	9	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH612	8-Apr-2021	-9.50	-9.95	6.30	6.75	<550	<1700	<18	<0.2	17	10	10	27	63	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1
1530-TME-MEDH613	30-Mar-2021	-2.78	-2.78	Surface		<550	<1700	<18	1.0	32	<u>80</u>	18	<u>86</u>	401	0.15	11	<u>1.5</u>	<0.015	Category H	No	NA	Type 2
1530-TME-MEDH613	30-Mar-2021	-2.78	-3.73	0.00	0.95	<550	<1700	<18	<0.2	15	16	7	20	118	<0.05	3	0.4	0.073	Category L	No	NA	Type 1
1530-TME-MEDH613	30-Mar-2021	-3.78	-4.73	1.00	1.95	<u>612</u>	<1700	<18	0.2	37	57	16	34	124	0.05	4	0.4	0.051	Category M	Yes	Pass	Type 1*
1530-TME-MEDH613	30-Mar-2021	-4.78	-5.23	2.00	2.45	<550	<1700	<18	<0.2	25	42	11	23	97	<0.05	4	0.2	0.017	Category L	No	NA	Type 1
1530-TME-MEDH614	20-Mar-2021	-2.33	-2.33	Surface		<550	<1700	<18	0.9	39	<u>100</u>	21	<u>82</u>	387	0.13	11	0.9	<0.015	Category H	No	NA	Type 2
1530-TME-MEDH614	20-Mar-2021	-2.83	-3.28	0.50	0.95	<550	<1700	<18	<0.2	25	<u>71</u>	13	40	119	<0.05	6	0.2	0.039	Category M	Yes	Pass	Type 1*
1530-TME-MEDH614	20-Mar-2021	-3.33	-3.78	1.00	1.45	<550	<1700	<18	<0.2	25	63	12	36	113	<0.05	6	0.3	<0.015	Category L	No	NA	Type 1
Reference Sediment	14-Apr-2021			Surface		<550	<1700	<18	<0.2	36	16	24	38	87	0.07	8	0.1	<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, 2,2',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',4' 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',5,5',6 heptaCBpyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.
- IS: TBT was not analysed due to insufficient interstitial water in the sample for analysis.
- Refer to Appendix 6.4 for details of biological testing results.
- Type 1: Open Sea Disposal
 Type 1*: Open Sea Disposal (Dedicated Site)
 Type 2: Confined Marine Disposal
 Type 3: Special Treatment / Disposal
- Due to insufficient sample size, the sample from 1530-TME-MEDH602 8.50 m bgl to 9.00 m bgl (-8.34 mPD to -8.84 mPD) was not tested. The category and disposal type were determined based on the sample immediately below the concerned depth (i.e. 9.00 m bgl to 10.00 m bgl (-8.84 mPD to -9.84 mPD)) as Category L/ Type 1 sediment.
- Due to insufficient sample size, the sample from 1530-TME-MEDH606 13.90 m bgl to 14.10 m bgl (-13.51 mPD to -13.71 mPD) was not tested. The category and disposal type were determined based on the sample from the nearest sampling location / depth (i.e. 1530-TME-MEDH605 17.50 m bgl to 18.50 m bgl (-16.64 mPD to -17.64 mPD)) as Category L/ Type 1 sediment.
- For sampling locations 1530-TME-MEDH613 and 1530-TME-MEDH614, the surface grab samples were classified as Category H / Type 2 sediment while the samples immediately below (i.e. 1530-TME-MEDH613 0.00 m to 0.95 m bgl (-2.78 mPD to -3.73 mPD) and 1530-TME-MEDH614 0.50 m bgl to 0.95 m bgl (-2.83 mPD to -3.23 mPD) were classified as Category L / Type 1 and Category M / Type 1 (DS) sediment respectively. As a conservative approach, the results of the higher contamination category (i.e. results from the surface grab samples) were used to represent the top sediment profile.

^ 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