Appendix 10.8b

Chemical Testing Results of Sediment Sub-samples Collected Close to T2 Expansion Works and APM Depot from HKBCF EIA Report

Chemical Testing Results of Sediment Sub-samples Collected close to T2 Expansion Works and APM Depot from HKBCF EIA Report

Sediment Quality Criteria TC(W) No.34/2002	Silver	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Mercury	Total Polychlorinated biphenyls (PCBs)	Low M.W. PAHs	High M.W. PAHs	Tributyl Tin (TBT)
Analyte Description	Silver	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Mercury	Total Polychlorinated biphenyls (PCBs)	Low M.W. PAHs	High M.W. PAHs	Tributyl Tin (TBT)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	ug TBT/L
LCEL	**1**	**12**	**1.5**	**80**	**65**	**40**	**75**	**200**	**0.5**	**23**	**550**	**1700**	**0.15**
UCEL	***2***	***42***	***4***	***160***	***110***	***40***	***110***	***270***	***1***	***180***	***3160***	***9600***	***0.15***
10 x (LCEL)	**10**	**120**	**15**	**800**	**650**	**400**	**750**	**2000**	**5**	**230**	**5500**	**17000**	**1.5**

Sampling Location	Silver	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Mercury	Total Polychlorinated biphenyls	Low M.W. PAHs	High M.W. PAHs	Tributyl Tin	Classification
BCF/VC-A03 0.20-0.90M	0.21	11.9	<0.2	34	29	22	49	100	0.15	<3	<55	<170	<0.015	L
BCF/VC-A03 0.90-1.90M	<0.1	8	<0.2	29	14	19	33	75	0.09	<3	<55	<170	<0.015	L
BCF/VC-A03 1.90-2.90M	<0.1	6.1	<0.2	30	12	20	32	77	0.07	<3	<55	<170	<0.015	L
BCF/VC-A03 4.90-5.90M	<0.1	6.3	<0.2	29	12	19	33	72	0.07	<3	<55	<170	<0.015	L
BCF/VC-A03 7.90-8.90M	<0.1	7.4	<0.2	34	14	23	36	81	0.08	<3	<55	<170	<0.015	L
BCF/VC-A03 12.00-12.90M	<0.1	**14**	<0.2	31	15	20	43	78	0.07	<3	<55	<170	<0.015	**M**
BCF/VC-A03 14.90-15.90M	<0.1	**15**	0.27	29	14	16	42	70	0.08	<3	<55	<170	<0.015	**M**
BCF/VC-A03 15.90-16.35M	<0.1	**15**	<0.2	30	13	9.3	39	48	0.05	<3	<55	<170	<0.015	**M**
BCF/VC-B06 0.35-0.90M	<0.1	9.7	<0.2	35	14	25	34	90	0.08	<3	<55	<170	<0.015	L
BCF/VC-B06 0.90-1.90M	<0.1	8.5	<0.2	33	14	24	33	85	0.08	<3	<55	<170	<0.015	L
BCF/VC-B06 1.90-2.90M	<0.1	7.4	<0.2	31	14	22	30	75	0.07	<3	<55	<170	<0.015	L
BCF/VC-B06 4.90-5.90M	<0.1	8.3	<0.2	34	14	23	35	85	0.08	<3	<55	<170	<0.015	L
BCF/VC-B06 7.90-8.90M	<0.1	5.8	<0.2	33	14	22	34	78	0.07	<3	<55	<170	<0.015	L
BCF/VC-B06 9.90-10.90M	<0.1	7.6	<0.2	28	11	19	29	61	0.06	<3	<55	<170	<0.015	L
BCF/VC-B06 10.90-11.35M	<0.1	5.4	<0.2	25	21	20	35	88	<0.05	<3	<55	<170	<0.015	L
BCF/VC-B09 0.10-0.90M	0.37	**12**	<0.2	39	34	25	52	110	0.15	<3	<55	<170	<0.015	**M**
BCF/VC-B09 0.90-1.90M	0.19	**14**	0.24	37	26	22	47	97	0.12	<3	<55	<170	<0.015	**M**
BCF/VC-B09 1.90-2.90M	<0.1	8	<0.2	32	13	23	30	75	0.07	<3	<55	<170	<0.015	L
BCF/VC-B09 4.90-5.90M	<0.1	6.9	<0.2	32	14	22	33	80	0.07	<3	<55	<170	<0.015	L
BCF/VC-B09 7.90-8.90M	<0.1	6.4	<0.2	34	14	23	36	82	0.07	<3	<55	<170	<0.015	L
BCF/VC-B09 12.10-12.90M	<0.1	11	<0.2	32	15	20	40	74	0.07	<3	<55	<170	<0.015	L
BCF/VC-B09 14.90-15.90M	0.14	**14**	0.27	31	15	18	46	80	0.07	<3	<55	<170	<0.015	**M**
BCF/VC-B09 18.00-18.90M	0.1	**13**	0.28	29	16	16	45	73	0.08	<3	<55	<170	<0.015	**M**

Chemical Testing Results of Sediment Sub-samples Collected close to T2 Expansion Works and APM Depot from HKBCF EIA Report

Sediment Quality Criteria TC(W) No.34/2002	Analyte Description	Silver	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Mercury	Total Polychlorinated biphenyls (PCBs)	Low M.W. PAHs	High M.W. PAHs	Tributyl Tin (TBT)
	Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	ug TBT/L
	LCEL	**1**	**12**	**1.5**	**80**	**65**	**40**	**75**	**200**	**0.5**	**23**	**550**	**1700**	**0.15**
	UCEL	***2***	***42***	***4***	***160***	***110***	***40***	***110***	***270***	***1***	***180***	***3160***	***9600***	***0.15***
	10 x (LCEL)	**10**	**120**	**15**	**800**	**650**	**400**	**750**	**2000**	**5**	**230**	**5500**	**17000**	**1.5**

	Sampling Location	Silver	Arsenic	Cadmium	Chromium	Copper	Nickel	Lead	Zinc	Mercury	Total Polychlorinated biphenyls	Low M.W. PAHs	High M.W. PAHs	Tributyl Tin	Classification
	BCF/VC-C11 0.30-0.90M	<0.1	8	<0.2	39	16	27	34	99	0.05	<3	<550	<1700	N/A	L
	BCF/VC-C11 0.90-1.90M	<0.1	9	<0.2	39	15	26	38	96	0.07	<3	<550	<1700	N/A	L
	BCF/VC-C11 1.90-2.90M	<0.1	10	<0.2	39	14	26	32	97	0.06	<3	<550	<1700	N/A	L
	BCF/VC-C11 4.90-5.90M	<0.1	8	<0.2	39	15	28	37	93	0.06	<3	<550	<1700	N/A	L
	BCF/VC-C11 7.90-8.90M	<0.1	**14**	<0.2	41	14	26	35	81	<0.05	<3	<550	<1700	N/A	**M**
	BCF/VC-C11 9.90-10.80M	<0.1	**13**	<0.2	19	6	6	22	28	<0.05	<3	<550	<1700	N/A	**M**

Source: Hong Kong - Zhuhai - Macao Bridge Hong Kong Boundary Crossing Facilities EIA Report (Register No.: AEIAR-145/2009)

Remarks:

1. **Blue BOLD** value denotes exceedance in Lower Chemical Exceedance Level (LCEL)
2. ***Red BOLD, Italic and Underlined*** value denotes exceedance in Upper Chemical Exceedance Level (UCEL)
3. **BOLD and Underlined** value denotes exceedance in 10 x LCEL
4. N/A - Insufficient interstitial water for analysis of TBT
5. Low molecular weight PAHs include acenaphthene, acenaphthylene, anthracene, flouroene, naphthalene, and phenanthrene.
6. High molecular weight PAHs include benzo[a]anthracene, benzo[a]pyrene, chrysene, dibenzo[a,h]anthracene, floranthene, pyrene, benzo[b]fluroanthene, benzo[k]fluoranthen, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.
7. Total PCBs include 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',5,5',6 heptaCB