

Table C-1. Summary of PCBs and Total Metals in Dust Generated from BMP Cleaning (2014 to 2017)

Malibu High School
Malibu, California

Waste Material Description			Sample ID	Sample Date	PCBs (mg / kg)	Metals (mg / kg)																
						Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
BMP Dust	2014	BMP Dust - Building J (700, Old Gymnasium)	W-MH-0624-DU-02	6/24/2014	34.1	<9.9	<3.0	150	< 0.49	4.9	25	13	120	250	0.17	<2.0	91	< 3.0	3	< 9.9	17	2,000
		BMP Dust - Building J (700, Old Gymnasium)	BMP Dust-BJ-1-Comp	8/5/2014	2.5	<10	<3.0	350	< 0.5	3.8	53	6.4	110	73	0.22	<2.0	32	< 3.0	2.7	< 10	17	1,500
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	W-MH-0701-DU-02	7/1/2014	43	<50	<15	360	< 2.5	4.8	56	5.1	190	120	0.39	<9.9	100	< 15	<7.4	< 50	21	3,100
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	BMP Dust-BABC-1-Comp	8/5/2014	69	<9.9	4.4	250	< 0.49	25	72	9.9	160	110	0.31	4.2	91	< 3.0	2.5	< 9.9	29	2,600
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	BMP Dust-BABC-2-Comp	8/5/2014	80	280	33	130	< 5.0	25	26	19	12,000	2,300	15	320	180	< 30	<15	< 100	27	16,000
		BMP Dust - Building H (Cafeteria/Auditorium)	BMP Dust-BH-1-Comp	8/5/2014	2.4	< 20	< 5.9	400	< 0.99	130	32	9.3	140	86	0.31	< 4.0	48	< 5.9	< 3.0	< 20	22	3,900
	2015	BMP Dust (composite)	BMP-1-Composite	8/14/2015	0.27 ^a	< 50	< 15	200	< 2.5	2.9	49	6.8	2,700	25	0.47	< 9.9	27	< 15	< 7.4	< 50	11	2,800
	2016	BMP Dust (composite)	BMP-Dust	10/7/2016	< 0.72 ^b	12	5.4	99	< 0.49	2.1	66	2.4	170	19	0.077	< 2.0	24	< 3.0	< 1.5	< 9.9	14	580
	2017	BMP Dust (composite)	BMP-DUST 1-4 (Composite)	8/8/2017	< 1.5 ^b	12	< 3.0	210	< 0.50	3.8	54	3.2	290	26	0.036	2.3	20	<3.0	<1.5	< 9.9	12	890
	Total Threshold Limit Concentration (TTLC)					50	500	500	10,000	75	100	500/ 2,500 ^c	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400
20 x Toxicity Characteristic Leaching Procedure Threshold (TCLP)					NE	NE	100	2,000	NE	20	100	NE	NE	100	4	NE	NE	20	100	NE	NE	NE
10 x Soluble Threshold Limit Concentration (STLC)					5	150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	2,500

Notes:
mg/kg = milligrams per kilogram
< = not detected above laboratory reporting limit
NE = not established
PCBs = polychlorinated biphenyls
BMP = Best Management Practice
RCRA = Resource Conservation and Recovery Act
Samples analyzed for PCBs by USEPA Method 8082
Samples analyzed for metals by USEPA Methods 6010B and 7471A
The concentrations of total PCBs were estimated using a conservative approach by summing up the detected concentrations of all the Aroclors analyzed.
^a Aroclor 1254 result; all other aroclors were below the laboratory reporting limit of 0.11 mg/kg.
^b All aroclors (1016, 1221, 1232, 1242, 1248, 1254, and 1260) were below the respective laboratory reporting limit.
^c The TTLC threshold for hexavalent chromium is 500 mg/kg; the TTLC threshold for total chromium is 2,500 mg/kg.
2017 sampling results are **bolded**.
Orange shading indicates the value exceeds the The Toxic Substances Control Act (TSCA) regulatory threshold of 50 mg/kg, and is therefore classified as a RCRA hazardous waste.
Yellow shading indicates the value exceeds the TTLC regulatory threshold, and is therefore classified as a non-RCRA hazardous waste.
Green shading indicates the total metals concentrations is at least 20 times greater than the TCLP or at least 10 times greater than the STLC and warrants TCLP and/or STLC testing, as applicable.

Table C-2. Summary of Leachable Metal Concentrations in Dust Generated from BMP Cleaning (2014 to 2017)
Malibu High School
Malibu, California

Waste Material Description			Sample ID	Sample Date	Selected TCLP Metals (mg/L)		Detected STLC Metals (mg/L)												
					Chromium	Lead	Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Vanadium	Zinc	Mercury
BMP-Dust	2014	BMP Dust - Building J (700, Old Gymnasium)	W-MH-0624-DU-02	6/24/2014	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	4.6	NA	NA	NA	NA	NA
		BMP Dust - Building J (700, Old Gymnasium)	BMP Dust-BJ-1-Comp	8/5/2014	NA	NA	<0.40	<0.40	4.9	0.30	3.1	1.8	< 0.4	0.79	1.4	5.4	<0.40	45	0.0049
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	W-MH-0701-DU-02	7/1/2014	0.16	< 0.1	NA	NA	NA	NA	NA	NA	NA	14	NA	NA	NA	3,100	NA
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	BMP Dust-BABC-1-Comp	8/5/2014	NA	NA	0.37	0.28	2.6	0.94	1.2	0.9	1.8	0.90	<0.40	2.6	0.65	300	< 0.002
		BMP Dust - Building A (800, Great White Shark) & B/C (900, Whale Shark)	BMP Dust-BABC-2-Comp	8/5/2014	NA	NA	1.5	<1.0	2.7	1	1.9	<1.0	6.1	6.8	11	4.7	<1.0	1,300	0.0096
		BMP Dust - Building H (Cafeteria/Auditorium)	BMP Dust-BH-1-Comp	8/5/2014	NA	NA	<0.20	0.29	2.1	3	1.2	0.51	1.5	1.1	<0.40	3.6	0.52	320	< 0.002
	2015	BMP Dust (composite)	BMP-1-Composite	8/14/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2016	BMP Dust (composite)	BMP-Dust	10/7/2016	NA	NA	NA	NA	NA	NA	0.67	NA	NA	NA	NA	NA	NA	NA	NA
	2017	BMP Dust (composite)	BMP-DUST 1-4 (Composite)	8/8/2017	NA	NA	NA	NA	NA	NA	0.92	NA	0.84	NA	NA	NA	NA	NA	NA
	Regulatory Threshold					5	5	15	5	100	1	5	80	25	5	350	20	24	250

Notes:
mg/L = milligrams per liter
< = Less than the reporting limit
B = Compound was found in the blank with a concentration of 9.5 mg/kg.
NA = Not Analyzed
ND = Not detected
TCLP = Toxicity Characteristic Leaching Procedure Threshold
STLC = Soluble Threshold Limit Concentration
2017 sampling results are **bolded**.
Yellow shading indicates the value exceeds the STLC regulatory threshold, and is therefore classified as a non-RCRA hazardous waste.

Table C-3. Summary of PCBs and Total Metals in Wastewater Generated from BMP Cleaning (2014 to 2017)
Malibu High School
Malibu, California

Waste Material Description/Location		Sample ID	Sample Date	PCBs (mg / L)	Metals (mg / L)																	Aquatic Toxicity Screen
					Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
2014	BMP Water - Blg J (700, Old Gymnasium)	W-MH-0624-WA-03/04	6/24/2014	0.011	0.024	0.051	0.57	< 0.004	0.02	0.11	0.03	0.45	0.17	0.0012	< 0.040	1.7	< 0.020	0.035	< 0.020	1.1	25	Pass
	BMP Water - Building A (800, Great White Shark) & B/C (900, Whale Shark)	W-MH-0701-WA-03,04,05	7/1/2014	0.0011	0.016	0.016	0.23	< 0.0020	0.036	0.041	< 0.010	0.53	0.14	0.00087	0.024	0.21	< 0.010	< 0.010	< 0.010	1.4	4.7	Pass
	HVAC Water - Building E (000, Blue Shark)	HVAC-BLG.E-W-1	7/22/2014	< 0.00048 ^a	< 0.010	< 0.010	0.056	< 0.0020	0.023	0.0056	< 0.010	0.13	0.014	0.00029	< 0.020	0.02	< 0.010	< 0.010	< 0.010	< 0.010	0.24	NA
	BMP Water - Building E (000, Blue Shark)	W-MH-0801-WA-BLG.E-W-1	8/1/2014	0.00162	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2015	BMP Water - Initial Sample	Baker 1	8/4/2015	0.0029	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	BMP Water - Final Sample	Baker 2	8/14/2015	0.00082	< 0.050	< 0.050	0.55	< 0.010	< 0.025	0.046	< 0.050	0.54	0.084	0.0019	< 0.10	0.59	< 0.050	< 0.050	< 0.050	1.2	67	NA
2016	BMP Wastewater	BMP-Water	8/12/2016	< 0.00053 ^a	< 0.010	0.039	1.6	< 0.0020	0.016	0.099	< 0.010	0.58	0.14	0.00046	0.035	2.5	< 0.010	< 0.010	< 0.010	1.8	12	NA
2017	BMP Wastewater	BMP-WATER	8 / 8 / 2017	< 0.00056 ^a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxicity Characteristic Leaching Procedure (TCLP) Threshold				NE	NE	5	100	NE	1	5	NE	NE	5	0.2	NE	NE	1	5	NE	NE	NE	Pass
Soluble Threshold Limit Concentration (STLC)				5	15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250	Pass

Notes
mg/L = milligrams per liter
< = not detected above laboratory reporting limit
NE = not established
NA = not analyzed
PCBs = Polychlorinated biphenyls
BMP = Best Management Practice
^aAll aroclors (1016, 1221, 1232, 1242, 1248, 1254, and 1260) were below the respective laboratory reporting limit.
The concentrations of total PCBs were estimated using a conservative approach by summing up the detected concentrations of all the Aroclors analyzed.
Samples analyzed for PCBs by USEPA Method 8082
Samples analyzed for metals by USEPA Methods 6010B and 7470A
2017 sampling results are bolded.