Appendix 4D

Groundwater Screening Criteria for Chemicals with Detectable Concentration

R06100 - EIA for Decommissioning of Cheoy Lee Shipyard at Penny's Bay

Groundwater Screening Criteria for Chemicals with Detectable Concentrations in Groundwater Samples

	Chemical	CAS No.	Value (mg/L)	Reference Standard	Remark
1	Ammonia	7664-41-7	n.a.	n.a.	nc
2	Antimony (Sb)	7440-36-0	15	USEPA Region IX PRG	nc
3	Arsenic	7440-38-2	30	Dutch 'B'	nc, ca
4	Barium	7440-39-3	100	Dutch 'B'	nc
5	Beryllium	7440-41-7	73	USEPA Region IX PRG	nc
6	Bis(2-ethylhexyl)phthalate	117-81-7	4.8	USEPA Region IX PRG	ca
7	Cadmium	7440-43-9	2.5	Dutch 'B'	nc
8	Calcium	7440-70-2	n.a.	n.a.	
9	Carbon Chain C11-C14	DMO-710-001			
	Carbon Chain C15-C18	DMO-710-003			
	Carbon Chain C19-C22	DMO-710-005			
	Carbon Chain C23-C26	DMO-710-007	200	Dutch 'B'	nc
	Carbon Chain C27-C30	DMO-710-009			
	Carbon Chain C31-C36	DMO-710-010			
10	Chloride	16887-00-6	n.a.	n.a.	
11	Chloroform	67-66-3	0.16	USEPA Region IX PRG	ca
12	Chromium	7440-47-3	50	Dutch 'B'	nc, ca
13	Cobalt	7440-48-4	50	Dutch 'B'	nc
14	Copper	7440-50-8	50	Dutch 'B'	nc
15	Cyanide	57-12-5	50	Dutch 'B'	nc
16	Di-n-butylphthalate	84-74-2	3600	USEPA Region IX PRG	nc
17	Iron (Total)	7439-89-6	11000	USEPA Region IX PRG	nc
18	Lead	7439-92-1	50	Dutch 'B'	nc
19	Magnesium	7439-95-4	n.a.	n.a.	
20	Manganese	7439-96-5	880	USEPA Region IX PRG	nc
21	Molybdenum	7439-98-7	20	Dutch 'B'	nc
22	Naphthalene	91-20-3	7	Dutch 'B'	nc
23	Nickel	7440-02-0	50	Dutch 'B'	nc
24	Nitrate	14797-55-8	10000	USEPA Region IX PRG	nc
25	Potassium	07/09/7440	n.a.	n.a.	
26	Selenium	7782-49-2	180	USEPA Region IX PRG	nc
27	Silver	7440-22-4	180	USEPA Region IX PRG	nc
28	Sodium	7440-23-5	n.a.	n.a.	
29	Sulfate	14808-79-8	n.a.	n.a.	
30	Tin	7440-31-5	30	Dutch 'B'	nc
31	Tributyltin	56573-85-4	4.3	n.a.	derived from TBTO, nc
32	Vanadium	7440-62-2	260	USEPA Region IX PRG	nc
33	Zinc	7440-66-6	200	Dutch 'B'	nc
34	Dioxins (2,3,7,8-TCBP) equivalent	1746-01-6	Non-zero TEQ	n.a.	ca

Keys : NA = not availablenc, nc = noncarcinogen, ca =carcinogen