

Figure U-24
Aquatic Plant Risk Summary
Based on Non-Spatial Exposure Point Concentrations

Study Area	Aquatic Plant										
	SW	STW	ASP	P13	P18	PA5	RCF	NDR	ADR	UCD	LCD
CPEC											
Inorganics											
Antimony	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	8	15	6	15	2	5	8	<1	<1	<1	<1
Barium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1
Chromium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	21	6	6	<1	10	21	<1	7	<1	<1	1
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Molybdenum	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	170	400	88	400	66	108	92	7	1	4	4
Selenium	15	29	8	29	4	9	16	1	<1	<1	<1
Silver	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tin											
Vanadium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	2	3	3	1	3	3	2	6	<1	<1	<1
Polycyclic Aromatic Hydrocarbons (PAHs)											
Total LMW PAH	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total HMW PAH	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Semi-Volatile Organic Compounds (SVOCs)											
Bis(2-chloroethyl)ether											
Bis(2-ethylhexyl)phthalate	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
N-Nitrosodiethylamine											
N-Nitrosodipropylamine											
N-Nitrosopyrrolidine											
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethane											
1,2-Dibromoethane (EDB)											
Acetone	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	9
Acetonitrile											
Carbon disulfide											
Ethylene glycol	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl isobutyl ketone (MIBK)	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
Methylene chloride											
Nonanal											
Propanal	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Notes:

Not evaluated
HQ < 1
HQ ≥ 1
HQ > 10
HQ > 100

CPEC = Constituent of Potential Ecological Concern
 HQ = Hazard Quotient
 LMW PAH = Low Molecular Weight Polycyclic Aromatic Hydrocarbons
 HMW PAH = High Molecular Weight Polycyclic Aromatic Hydrocarbons
 NOAEL = No Observed Adverse Effect Level
 LOAEL = Lowest Observed Effect Level
 TRV = Toxicity Reference Value
 NOAEL and LOAEL TRVs are not available for ecological communities.
 HQs presented for these receptors are based on a single TV (with the exception of sediment invertebrates). Low and high TVs are available in the literature for sediment invertebrates and were used for risk estimation.

Study Areas:

SW = Sitewide
 SWP = Sitewide Including Ponds (Ponds 18 and A-5)
 ADB = Administration Building Area
 BTA = Burial Trench Area
 CDA = Central Drainage Area
 FPP = Former Ponds and Pads
 LQT = Liquid Treatment Area
 MSA = Maintenance Shed Area
 ROS = Remaining On-site Areas
 RCRA = RCRA Canyon
 RWA = Roadway Areas
 WCS = West Canyon Spray Area
 ASP = A-Series Pond
 P13 = Pond 13
 P18 = Pond 18
 PA5 = Pond A-5
 RCF = RCF Pond
 STW = Stormwater Ponds (Pond 13, A-Series Pond, and RCF Pond)
 NDR = North Drainage
 ADR = A Drainage
 BDR = B Drainage
 UCD = Upper C Drainage
 LCD = Lower C Drainage
 BKG = Background