

Figure U-41
 Western Meadowlark (Invertivore) Risk Summary
 Based on Spatial Exposure Point Concentrations

Study Area	Western Meadowlark ¹																										
	SW	SW	SWP	SWP	ADB	ADB	BTA	BTA	CDA	CDA	FPP	FPP	LQT	LQT	MSA	MSA	ROS	ROS	RCRA	RCRA	RWA	RWA	WCS	WCS	BKG	BKG	
CPEC	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	Low HQ	High HQ	
Inorganics																											
Barium	3	6	3	6	<1	<1	<1	<1	1	2	1	3	<1	<1	<1	2	3	6	13	27	<1	<1	2	4	<1	<1	
Cadmium	1	6	2	6	<1	2	<1	3	<1	3	1	4	2	7	2	7	1	4	4	15	<1	<1	4	14	1	5	
Chromium	6	6	6	6	1	1	2	2	2	2	3	3	2	2	6	6	4	4	12	12	<1	<1	25	27	3	3	
Cobalt	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper	2	6	2	6	<1	<1	<1	<1	<1	<1	<1	2	<1	2	1	4	1	3	3	9	<1	<1	7	21	<1	<1	
Total Cyanide	<1	8	<1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Lead	1	2	<1	2	<1	1	<1	1	3	5	<1	2	<1	1	16	33	<1	2	2	5	<1	<1	1	2	<1	1	
Manganese	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Mercury	<1	3	<1	3	<1	3	<1	2	<1	3	<1	2	<1	3	<1	4	<1	3	<1	3	<1	<1	<1	3	<1	2	
Molybdenum	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Nickel	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Selenium	<1	2	<1	2	<1	2	<1	3	<1	2	<1	2	<1	2	<1	<1	<1	2	2	2	<1	<1	2	2	<1	4	
Vanadium	2	5	2	4	2	5	2	5	2	4	2	4	2	4	2	4	2	5	2	4	<1	<1	2	4	5	11	
Zinc	<1	9	<1	9	<1	6	<1	7	<1	7	<1	7	<1	7	<1	9	<1	7	1	13	<1	<1	1	10	<1	8	
PCDD/PCDFs (Dioxins)																											
Total Avian Dioxin TEQ	<1	3	<1	3	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	4	<1	3	<1	<1	<1	<1	<1	<1	<1	2	
Total Avian PCB TEQ	<1	4	<1	5	<1	<1	<1	<1	2	16	<1	3	<1	<1	<1	4	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	
Herbicides																											
MCPA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
MCPP	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	4	40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
PCBs																											
Aroclor 1260	<1	<1	<1	2	<1	<1	<1	<1	1	17	<1	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Sum of PCB Congeners	<1	2	<1	1	<1	<1	<1	<1	<1	3	<1	3	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	
Total Avian PCB TEQ	<1	<1	<1	2	<1	<1	<1	<1	<1	7	<1	3	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	
Pesticides																											
4,4'-DDE	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
4,4'-DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	21	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Total DDT	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	2	22	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Semi-Volatile Organic Compounds (SVOCs)																											
Bis(2-ethylhexyl)phthalate	<1	<1	<1	<1	<1	<1	<1	<1	2	18	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Volatile Organic Compounds (VOCs)																											
Tetrachloroethylene																											
Trichloroethylene																											

Notes:
 Not evaluated
 Low or High HQ < 1
 High HQ ≥ 1
 Low HQ ≥ 1
 Low HQ > 10
 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
 Low HQ is based on LOAEL TRV; High HQ is based on NOAEL TRV.
¹ Diet assumed to be 100% invertebrate.

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