

## Summary Table: Arsenic (CASID: 7440-38-2)

Wastestream Concentration Exit Level Analysis for 95% Sites Protection:  
Sum of Ingestion and Inhalation, All Receptors, All Cohorts & Eco Roll-up by Habitat Group

National Risk Assessment Exit Level Analysis		Waste Management Unit (Source) Type										
		Surface Impoundment		Aerated Tank		Land Application Unit		Landfill		Waste Pile		
		1	2	1	2	1	2	1	2	1	2	
Scenario # >>>>												
Dominant Risk Summary	Receptor Class	Human	Eco			Human	Eco	Human	Eco	Eco	Eco	
	Risk Category	Cancer	Hazard			Cancer	Hazard	Cancer	Hazard	Hazard	Hazard	
Exit Level (ppm) Uncertainty Analysis	Confidence Level		Combinations of Various Confidence Levels Indicating Accuracy and Precision in 3MRA Exit Levels for the Dominant Receptor Class/Risk Category/Pathway of Concern (Mean* : linear interpolation).									
	Accuracy	Precision										
		%He	%Ie									
		95	0	0.017	1.59	3MRA Predictions Indicated Low Risk Scenario. No exit Levels Calculated	0.0027	0.200	1.06	136	0.40	3.98
		80	0	0.048	1.69		0.0033	0.200	1.48	227	0.40	15.8
		Median	0	0.103	2.16		0.0045	0.447	2.06	251	15.8	15.8
		Mean	0	0.084	2.03		0.0041	0.612	1.79	302	2.84	14.5
		Mean*	0	0.468	9.90		0.0314	0.808	13.5	2476	23.5	58.5
		95	95	0.010	1.56	3MRA Predictions Indicated Low Risk Scenario. No exit Levels Calculated	0.0027	0.200	1.05	136	0.40	3.98
		80	95	0.029	1.67		0.0033	0.200	1.45	227	0.40	15.8
	Median	95	0.079	2.16	0.0045		0.447	2.06	251	15.8	15.8	
	Mean	95	0.076	2.00	0.0040		0.558	1.73	287	2.3	12.8	
	Mean*	95	0.446	9.69	0.0306		0.772	12.8	2366	19.1	55.9	
<b>Media-Pathway, Human Receptor Type, Eco Habitat Group, and Human Cohort Sensitivities</b> <i>Represents the ratio of the Dominant Exit Level Concern and the indicated (Alternative) Exit Level Scenario (for %He = 50, %Ie = 0). Independent log-linear interpolation schemes are used for the "median" analysis below and the exit level analysis above; i.e., statistics of interpolations (below), compared to interpolation of statistics (above) calculated across national realizations.</i>												
Media-Pathway Analysis (Human)	Sum of Ing. & Inh.	2.1 E-3	4.3 E-2			4.5 E-7	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3	
	Sum of Ingestion	1.2 E+0	4.3 E-2			1.0 E+0	1.2 E-1	1.0 E+0	2.9 E-1	5.4 E+0	1.6E-3	
	Sum of Inhalation	2.1 E-3	4.3 E-2			1.0 E-2	1.8 E-2	8.2 E-3	2.5 E-2	2.2 E-1	1.6E-3	
	Air Inhalation	2.1 E-3	4.3 E-2			1.0 E-2	1.8 E-2	8.2 E-3	2.5 E-2	2.2 E-1	1.6E-3	
	Shower Inhalation	2.1 E-3	4.3 E-2			4.5 E-7	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3	
	Water Ingestion	1.2 E+0	4.3 E-2			6.1 E-1	7.1 E-2	1.0 E+0	1.9 E-1	3.2 E+0	1.6E-3	
	Groundwater Total	2.1 E-3	4.3 E-2			4.5 E-7	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3	
	Soil Ingestion	2.1 E-3	4.3 E-2			1.0 E-2	1.3 E-3	7.0 E-4	2.5 E-2	3.2 E-2	1.6E-3	
	Crop Ingestion	2.1 E-3	4.3 E-2			6.1 E-1	1.8 E-2	1.4 E-2	2.5 E-2	6.3 E-1	1.6E-3	
	Fish Ingestion	2.1 E-3	4.3 E-2			2.5 E-6	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3	
Beef Ingestion	2.1 E-3	4.3 E-2			4.5 E-7	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3		
Milk Ingestion	2.1 E-3	4.3 E-2			4.5 E-7	4.5 E-5	2.1 E-4	2.5 E-2	1.6 E-3	1.6E-3		
Human Receptor Type	All Receptors	1.2 E+0			1.0 E+0		1.0 E+0					
	Beef/Dairy Farmer	2.1 E-3			2.8 E-3		1.5 E+0					
	Fisher	1.2 E+0			6.1 E-1		1.2 E+0					
	Gardener	2.1 E-3			1.3 E+0		9.4 E-1					
	Resident	2.1 E-3			6.1 E-1		9.4 E-1					
Eco Habitat Group	Terrestrial		4.3 E-2				1.0 E+0		8.8 E-1	1.4 E-1	7.1E-2	
	Aquatic	1.0 E+0				1.5 E-1		2.9 E-1	8.8 E-2	5.6E-2		
	Wetland	4.3 E-2				1.3 E-1		6.3 E-2	4.0 E+0	1.0E+0		
Human Cohort Type	All Cohorts	1.2 E+0	4.3 E-2			1.0 E+0	1.2 E-1	1.0 E+0	2.9 E-1	5.4 E+0	1.6E-3	
	13 years old and older	1.2 E+0	4.3 E-2			1.0 E+0	8.9 E-2	9.8 E-1	2.9 E-1	4.4 E+0	1.6E-3	
	1-12 years old	1.6 E-1	4.3 E-2			7.1 E-1	2.4 E-1	1.1 E+0	3.3 E-1	4.9 E+0	1.6E-3	
	Infants	---	---			---	---	---	---	---	---	
Key:		Shows Range of Uncertainty			Indicates sensitivity >1.1			Indicates sensitivity between 1.1 and 0.7			Indicates sensitivity between 0.7 and 0.2	