

# ROYAL OAK MINES INC.

Yellowknife Division - Giant Mine

## Monthly Air Sampling Report 1993

Station		January	February	March	April	May	June	July	August	September	October	November	December	Average
Roaster Filter Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.45			0.49			0.59			0.62	0.54
	As -ug/m <sup>3</sup>			9.81			10.70			12.60			12.44	11.39
Roaster Control Room	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.29			0.31			0.46			0.35	0.35
	As -ug/m <sup>3</sup>			4.19			5.68			9.89			10.00	7.44
Roaster Top Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			2.00			2.11			3.00			2.89	2.00
	As -ug/m <sup>3</sup>			15.00			19.09			22.00			22.90	19.75
Cottrell Top Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.76			0.90			1.70			2.00	1.34
	As -ug/m <sup>3</sup>			14.82			16.76			23.10			22.99	19.42
Cottrell Bottom Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.89			0.74			0.69			0.76	0.77
	As -ug/m <sup>3</sup>			12.48			14.55			18.40			15.24	15.17
Cottrell Control Room	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.18			0.25			0.30			0.22	0.24
	As -ug/m <sup>3</sup>			3.99			4.45			7.05			6.99	5.62
Baghouse Bottom Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.65			0.58			1.01			1.21	0.86
	As -ug/m <sup>3</sup>			9.49			10.50			14.50			12.48	11.74
Baghouse Top Floor	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			1.39			1.88			2.06			1.90	1.81
	As -ug/m <sup>3</sup>			17.97			19.44			24.11			20.22	20.44
Refinery Furnace	Total/Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	
	Dust - mg/m <sup>3</sup>	2.50	3.01	2.89	2.49	2.74	3.01	2.50	2.00	2.10	2.24	2.17	2.30	2.50
	As -ug/m <sup>3</sup>	37.45	39.08	38.86	39.64	38.40	37.90	37.46	36.52	34.00	37.40	38.11	40.11	37.91
Refinery Control Room	Total/Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	Respirable	
	Dust - mg/m <sup>3</sup>	0.65	0.72	0.66	0.88	0.65	0.54	0.49	0.50	0.45	0.67	0.81	0.75	0.65
	As -ug/m <sup>3</sup>	6.95	7.30	8.90	7.78	9.04	7.17	6.11	5.09	6.05	7.08	7.92	8.00	7.28
Carbon Plant	Total/Respirable			Respirable			Respirable			Respirable			Respirable	
	Dust - mg/m <sup>3</sup>			0.88			0.96			1.20			1.00	1.01
	As -ug/m <sup>3</sup>			14.00			16.00			23.06			19.00	18.02

Threshold Limit Values: Total Arsenic = 50 micrograms per cubic meter

Respirable Dust = 5.0 milligrams per cubic meter

# Monthly Air Sampling Report - August 1993

Station		January	February	March	April	May	June	July	August	September	October	November	December	Average
Wood Picker	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		2.82			2.70			3.00			3.20		2.93
	Silica -ug/m <sup>3</sup>													
Jaw Crusher	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		3.19			3.06			3.50			3.11		3.22
	Silica -ug/m <sup>3</sup>													
Grinding Crusher	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		3.01			2.98			3.12			2.96		3.02
	Silica -ug/m <sup>3</sup>													
Screen Floor	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		3.00			3.50			3.05			3.40		3.24
	Silica -ug/m <sup>3</sup>													
Top of Ore Bins	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		2.90			3.00			3.43			4.01		3.34
	Silica -ug/m <sup>3</sup>													
Crusher Setting Room	Total/Respirable		Respirable			Respirable								
	Dust - mg/m <sup>3</sup>		0.55			0.44								0.50
	Silica -ug/m <sup>3</sup>													
Crusher Control	Total/Respirable		Respirable			Respirable			Respirable			Respirable		
	Dust - mg/m <sup>3</sup>		0.89			0.75			0.86			0.90		0.85
	Silica -ug/m <sup>3</sup>													
Under Ore Bins	Total/Respirable	Respirable			Respirable			Respirable			Respirable			
	Dust - mg/m <sup>3</sup>	1.01			1.19			1.08			1.05			1.08
#2 Ball Mill	Total/Respirable	Respirable			Respirable			Respirable			Respirable			
	Dust - mg/m <sup>3</sup>	0.88			0.76			0.89			0.92			0.86
Flotation Bench	Total/Respirable	Respirable			Respirable			Respirable			Respirable			
	Dust - mg/m <sup>3</sup>	0.30			0.37			0.33			0.25			0.31
Solutions Desk	Total/Respirable	Respirable			Respirable			Respirable			Respirable			
	Dust - mg/m <sup>3</sup>	0.25			0.20			0.31			0.21			0.24
Cyanide Mix Area	Total/Respirable	Respirable			Respirable			Respirable			Respirable			
	Dust - mg/m <sup>3</sup>	0.65			0.74			0.97			1.54			0.98

Threshold Limit Values: Respirable Dust = 5.0 milligrams per cubic meter