

AIR SAMPLING REPORT, AUGUST/1995

STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Wood Picker	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.92			1.01			1.20					1.04
	Silica - ug/m ³													
Jaw Crusher	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.99			1.20			1.09					1.09
	Silica - ug/m ³													
Cone Crusher	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		1.18			1.26			1.35					1.26
	Silica - ug/m ³													
Screen Floor	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.34			0.94			1.11					0.80
	Silica - ug/m ³													
Top of Ore Bins	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.52			0.99			1.44					0.98
	Silica - ug/m ³													
Crusher Setting Room	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.15			0.20			0.34					0.23
	Silica - ug/m ³													
Crusher Control Room	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.13			0.19			0.56					0.29
	Silica - ug/m ³													
Under Ore Bins	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.41			0.35			0.29						0.36
#2 Ball Mill	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.25			0.29			0.22						0.25
Flotation Bench	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.23			0.18			0.15						0.19
Solutions Desk	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.26			0.15			0.12						0.18
Cyanide Mix Area	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.38			0.60			0.54						0.51

Threshold Limit Values:

Respirable Dust = 5.0 milligrams per cubic meter

AIR SAMPLING REPORT, AUGUST/1995

STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Wood Picker	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³	No	0.92	STATION	ANY MORE	1.01			1.20					1.04
	Silica - ug/m ³													
Jaw Crusher	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.99			1.20			1.09					1.09
	Silica - ug/m ³													
Cone Crusher	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		1.18			1.26			1.35					1.26
	Silica - ug/m ³													
Screen Floor	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.34			0.94			1.11					0.80
	Silica - ug/m ³													
Top of Ore Bins	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.52			0.99			1.44					0.98
	Silica - ug/m ³													
Crusher Setting Room	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.15			0.20			0.34					0.23
	Silica - ug/m ³													
Crusher Control Room	Total/Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.13			0.19			0.56					0.29
	Silica - ug/m ³													
Under Ore Bins	Total/Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.41			0.35			0.29						0.35
#2 Ball Mill	Total/Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.25			0.29			0.22						0.25
Flotation Bench	Total/Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.23			0.18			0.15						0.19
Solutions Desk	Total/Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.26			0.15			0.12						0.18
Cyanide Mix Area	Total/Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.38			0.60			0.54						0.51

Threshold Limit Values:

Respirable Dust = 5.0 milligrams per cubic meter

To get into air sample

IF/R air \ * . * Forms air

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ROYAL OAK MINES INC.
NWT Division - Giant Mine

AIR SAMPLING REPORT, AUGUST/1995

STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Roaster Filter Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.32			0.54							0.43
	As - ug/m ³			17.47			18.36							17.92
Roaster Control Room	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.16			0.12							0.14
	As - ug/m ³			7.30			6.00							6.65
Roaster Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.29			0.35							0.32
	As - ug/m ³			30.90			26.15							28.53
Cottrell Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.53			0.47							0.50
	As - ug/m ³			27.15			28.11							27.63
Cottrell Bottom Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.56			0.66							0.61
	As - ug/m ³			26.80			27.00							26.90
Cottrell Control Room	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.21			0.14							0.18
	As - ug/m ³			5.56			6.18							5.87
Baghouse Bottom Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.70			0.40							0.55
	As - ug/m ³			18.70			16.35							17.53
Baghouse Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.20			0.17							0.19
	As - ug/m ³			22.06			19.48							20.77
Refinery Furnace	Total/Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³	1.00	0.89	1.09	1.14	1.26	1.10	1.32	1.20					1.13
	As - ug/m ³	34.65	31.88	35.57	37.30	38.12	37.45	38.00	37.24					36.28
Refinery Control Room	Total/Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³	0.11	0.26	0.15	0.20	0.26	0.28	0.34	0.18					0.22
	As - ug/m ³	7.25	7.00	6.01	6.50	7.10	6.98	7.15	6.00					6.75
Carbon Plant	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.25			0.20							0.23
	As - ug/m ³			21.44			18.01							19.73

Threshold Limit Values:

Total Arsenic = 50 micrograms per cubic meter
Respirable Dust = 5.0 milligrams per cubic meter

ROYAL OAK MINES INC.
NWT Division - Giant Mine

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STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Roaster Filter Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.32			0.64			.66			.68	0.43
	As - ug/m ³			17.47			18.36			19.36			19.08	17.82
Roaster Control Room	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.18			0.12			.14			.12	0.14
	As - ug/m ³			7.30			8.00			8.4			9.2	8.65
Roaster Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.29			0.38			.31			.40	0.32
	As - ug/m ³			30.90			28.15			29.0			29.5	28.63
Control Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.63			0.47			.44			.56	0.60
	As - ug/m ³			27.18			28.11			28.40			29.0	27.63
Control Bottom Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.66			0.66			.52			.36	0.61
	As - ug/m ³			28.80			27.00			20.00			18.00	26.80
Control Control Room	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.21			0.14			.12			.12	0.18
	As - ug/m ³			5.56			6.18			5.80			5.25	6.07
Baghouse Bottom Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.70			0.40			.36			.38	0.58
	As - ug/m ³			18.70			18.35			15.00			15.40	17.83
Baghouse Top Floor	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.20			0.17			.19			.29	0.19
	As - ug/m ³			22.00			19.48			17.2			18.0	20.77
Refinery Furnace	Total/Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³	1.00	0.89	1.09	1.14	1.28	1.10	1.32	1.20	1.8	1.4	—	1.20	1.13
	As - ug/m ³	34.65	31.88	38.67	37.30	38.12	37.46	38.00	37.24	57.24	55.21	—	56.00	38.28
Refinery Control Room	Total/Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³	0.11	0.25	0.15	0.20	0.26	0.25	0.34	0.18	.17	.10		.10	0.23
	As - ug/m ³	7.25	7.00	6.91	6.80	7.10	6.90	7.18	6.00	5.7	5.70		5.5	6.78
Carbon Plant	Total/Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³			0.25			0.20			.20			.20	0.23
	As - ug/m ³			21.44			18.91			21.00			17.25	18.73

Maximum Lead Value: Total Arsenic: 15 ug/m³ per 1000 ft³ of air

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STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Wood Picher	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.92			1.01			1.20					1.04
	Solids - ug/m ³													
Jaw Crusher	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.99			1.20			1.09					1.09
	Solids - ug/m ³													
Cone Crusher	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		1.18			1.26			1.35					1.26
	Solids - ug/m ³													
Screen Floor	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.34			0.94			1.11					0.80
	Solids - ug/m ³													
Top of Ore Bin	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.82			0.99			1.44					0.99
	Solids - ug/m ³													
Crusher Setting Room	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.15			0.20			0.34					0.23
	Solids - ug/m ³													
Crusher Control Room	Total Resp		Resp			Resp			Resp			Resp		
	Dust - mg/m ³		0.13			0.19			0.55					0.29
	Solids - ug/m ³													
Under Ore Bin	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.41			0.35			0.29			0.12			0.35
#2 Ball Mill	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.25			0.29			0.22			0.18			0.25
Flotation Bench	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.23			0.18			0.15			0.10			0.19
Solutions Desk	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.26			0.15			0.12			0.10			0.18
Cyanide Mix Area	Total Resp	Resp			Resp			Resp			Resp			
	Dust - mg/m ³	0.38			0.60			0.54			0.52			0.51

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

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NWT Division - Giant Mine

AIR SAMPLING REPORT, AUGUST/1995

STATION		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	AVERAGE
Roaster Filter Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³						2.5							0.43
	As - ug/m ³						16							17.92
Roaster Control Room	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.14
	As - ug/m ³													6.65
Roaster Top Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.32
	As - ug/m ³													28.63
Cottrell Top Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.80
	As - ug/m ³													27.63
Cottrell Bottom Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.61
	As - ug/m ³													26.90
Cottrell Control Room	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.18
	As - ug/m ³													6.82
Baghouse Bottom Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.66
	As - ug/m ³													17.53
Baghouse Top Floor	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.19
	As - ug/m ³													20.77
Refinery Furnace	Total Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³													1.13
	As - ug/m ³													36.28
Refinery Control Room	Total Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	Resp	
	Dust - mg/m ³													0.22
	As - ug/m ³													6.75
Carbon Plant	Total Resp			Resp			Resp			Resp			Resp	
	Dust - mg/m ³													0.23
	As - ug/m ³													19.73

Threshold Limit Values:

Total Arsenic = 50 micrograms per cubic meter
Respirable Dust = 5.0 milligrams per cubic meter