## Nevada Division of Environmental Protection Bureau of Air Pollution Control

			Calendar	Year 2009 A		Air Pollution sion Reporti		dum for Mercury Emissions
-			Gaiorida		umulative NMCP Mer		-	·
Pollutant ID	Production/Heat	Production Units	Emissions	Emissions	HG Annual		HG Co-Product	
	Rate	(eg. tons/yr)			Emissions (lbs/yr)		(tons/yr)	
Source: Nev	wmont Mining Cor	poration - Twin C	Creeks Mine: A	AQOP AP104	1-0723.01; NMCP AP	1041-2218		
					001 - 1 of 2, only one of		a time)	
Hg	34.00	tpy	0.000122	lbs/hr	0.0510	418	0.0000	Induction Furnace emissions factor derived from 2009 M29 stack test.
System Desc		Mill Electric Induc		S2.001.1/TU4	1.002 - 1 of 2, only one	e operates a	t a time)	
Hg	28.70	tpy	0.000119	lbs/hr	0.0387	325	0.0000	Induction Furnace emissions factor derived from 2009 M29 stack test.
	cription: Juniper I							Ta
Hg	5,667.00	tpy	0.000632	lbs/hr	4.8373	7,654	0.5580	Carbon Kiln emissions factor derived from 2009 M29 stack test.
	cription: New Mei				0.0000	550	0.0000	Datast A assissions factor dash ad from 0000 M00 start took
Hg	21.00 cription: New Mer	tpy	0.00000145		0.0008	558	0.0000	Retort A emissions factor derived from 2009 M29 stack test.
Hg	14.00	tpy	0.00000202	lbs/hr	0.0010	499	0.0000	Retort B emissions factor derived from 2009 M29 stack test.
	cription: Old Mero			105/111	0.0010	433	0.0000	Thetort B emissions factor derived from 2009 M29 Stack test.
Cystem Desc		dry rictort officul	(OZ.004)					Retort A emissions factor derived from 2008 M29 stack test.
Hg	25.85	tpy	0.000028	lbs/hr	0.0739	2,639	2.2770	Unit was not tested in 2009, removed and replaced in October, 2009.
System Desc	cription: Old Merc	cury Retort Circui		100,111	5.5.55	_,,,,,		
		,						Retort B emissions factor derived from 2008 M29 stack test.
Hg	14.44	tpy	0.000028	lbs/hr	0.0420	1,500	1.3750	Unit was not tested in 2009, removed and replaced in October, 2009.
System Desc	cription: Old Merc	cury Retort Circui	t C (S2.005.1)					
								Retort C emissions factor derived from 2008 M29 stack test.
Hg	12.83	tpy	0.000073	lbs/hr	0.1303	1,785	0.9030	Unit was not tested in 2009, removed in October, 2009.
System Desc	cription: Old Mero	cury Retort Circui	t D (S2.005.2)					I=
	10.45				0.0400		0.7040	Retort D emissions factor derived from 2008 M29 stack test.
Hg	16.45 cription: Sage Mil	tpy	0.0000066	lbs/hr	0.0126	1,904	0.7940	Unit was not tested in 2009, removed in October, 2009.
System Desc Hg	1,849,150.00	tpy	0.0342	lbs/hr	283.2444	8,282	0.0000	Autoclave #1 emissions factor derived from 2009 M29 stack test.
	cription: Sage Mil			IDS/III	203.2444	0,202	0.0000	Autociave #1 emissions factor derived from 2009 M29 stack test.
Hg	1,723,790.00	tpy	0.0129	lbs/hr	96.7758	7,502	0.0000	Autoclave #2 emissions factor derived from 2009 M29 stack test.
	cription: Electro-v					7,002	0.0000	Tratestate HE stilledictic factor derived from Esse Wes stack toot.
Hg	Not Reported	gals/yr	0.000577	lbs/hr	5.0545	8,760	0.0000	Electro-winning Cells emissions factor derived from 2009 M29 stack test.
System Desc	cription: Juniper I	Mill Pregnant & B	arren Strip So	lution Tanks (	TU4.008 - TU4.010)	<u> </u>	•	
Hg	Not Reported	gals/yr	0.00333	lbs/hr	29.1708	8,760	0.0000	Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.
System Desc	cription: Pinon Mi	Il Pregnant Strip	Solution Tank	(TU4.012)				
Hg	Not Reported	gals/yr	0.0001356	lbs/hr	1.1879	8,760	0.0010	Emissions estimate - refer to attached calculation.
	cription: Pinon Mi							I=
Hg	Not Reported	gals/yr	0.0001356	lbs/hr	1.1879	8,760	0.0000	Emissions estimate - refer to attached calculation.
	cription: Laborato	ry Sample Prep.	Room, Fire As	ssay Room, W		Prep. Room		Instrumentation Room, Met Lab Room & Autoclave Room
Hg			CV200C	Facility Total:	3.9471 434.3715		0.0000 8.9100	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev. CY2006 Co-product: 17,820.00 lbs/yr
				Facility Total:	929.9303		13.2160	CY2007 Co-product: 17,820.00 lbs/yr.
				Facility Total:	1,679.1864		8.8000	CY2008 Co-product: 17,600.00 lbs/yr.
				acility Total:			5.9080	CY2009 Co-product: 11,816.00 lbs/yr.
Source: Yuk	con-Nevada Gold	Corporationler			P1041-0778; NMCP AI	P1041-2217		,
	cription: West Ro					.011 2217		
Hg	91,014.00	tpy	0.0148	lbs/hr	24.8936	1,682	0.4000	Roaster emissions factor derived from December 2009 M29 stack test.
	cription: West Ro							
Hg	Not Reported	tpy		lbs/hr	0.0000	1,682	0.0000	No testing completed to date, unable to test vent, no draft fan.
	cription: East Roa	aster Process (S2						
Hg	77,941.00	tpy	0.0735	lbs/hr	111.9405	1,523	1.7000	Roaster emissions factor derived from December 2009 M29 stack test.
	cription: East Roa		ick					
Hg	Not Reported	tpy		lbs/hr	0.0000	1,523	0.0000	No testing completed to date, unable to test vent, no draft fan.
	cription: Carbon E		bber (Retort -		0.0000	0.000	0.0000	No Moo tooking assemblated in 2000
Hg	Not Reported	tpy		lbs/hr	0.0000	2,930	0.0000	No M29 testing completed in 2009.
System Desc Hg	cription: Ore Drye 192,824.00	tpy		lbs/hr	0.0000	1,238	0.0000	December 2009 M29 stack test demed invalid.
ı ıy	102,024.00	ιργ		103/111	0.0000	1,230	1 0.0000	December 2003 MIZ3 stack test defiled invalid.

Source: Yuk	on-Nevada Gold	Corporation - Jer	ritt Canvon Mi	ine: AQOP AI	P1041-0778; NMCP AF	21041-2217	(continued)	
		Process Induction					(	
Hg	5.00	tpy		lbs/hr	0.0000	831	0.0000	No M29 testing completed in 2009.
System Desc	cription: Laborato		Large Ore D	rying Ovens (	5 Units) and Electro-wi	inning Cells		
Hg	<b>'</b>	ĺ		,	2.1363	Ŭ	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
Ŭ			CY2006 I	Facility Total:	293.9245		2.9600	CY2006 Co-product: 5,920.00 lbs/yr.
				Facility Total:			1.0200	CY2007 Co-product: 2,040.00 lbs/yr.
				Facility Total:			0.7100	CY2008 Co-product: 1,420.00 lbs/yr.
				acility Total:			2.1000	CY2009 Co-product: 4,200.00 lbs/yr.
Source: Nev	vmont Minina Cor	poration - Gold C			3; NMCP AP1041-221	9		
					er: S2.120/TU4.001)			
Hg	3,146,023.00	tpy	0.000671	lbs/hr	5.1231	7,635	0.0000	Static Seperator emissions factor derived from 2009 M29 stack test.
	cription: CFB Nor		Preheaters (	S2.126 & S2.	129/ TU4.002 & TU4.0	03)		
Hg	3,220,396.00	tpy	0.00205	lbs/hr	15.7686	7,692	0.0000	Ore Preheater's emissions factor derived from 2009 M29 stack test.
System Desc	cription: CFB Nor		Roasters (S2	2.133 & S2.14	15/TU4.004 & TU4.005	)		
Hg	3,220,396.00	tpy	0.000157	lbs/hr	1.2076	7,692	4.1300	Ore Roaster's factor derived from 2009 M29 stack test.
System Desc	cription: ROTP N		nch Circuit (S	2.158 & S2.1	59/TU4.006 - TU4.009)	)		
Hg	1,377,793.00	tpy	0.004034	lbs/hr	30.7028	7,611	0.0000	North Quench Circuit emissions factor derived from 2009 M29 stack test.
System Desc	cription: ROTP S		nch Circuit (S	2.160 & S2.1	61/TU4.010 - TU4.013	)		
Hg	1,842,603.00	tpy	0.00511	lbs/hr	39.3061	7,692	0.0000	South Quench Circuit emissions factor derived from 2009 M29 stack test.
	cription: AARL Ca		ircuit (Pregna	nt Tanks: TU	J4.014 & TU4.015)			
Hg	14,313.60	tpy	0.000907	lbs/hr	7.5190	8,290	0.0000	Pergnant Strip Tanks emissions factor derived from 2009 M29 stack test.
System Desc	cription: Refinery	Barren Tank & E	lectro-winning	Cells (TU4.0	)16 & TU4.017)			
Hg	42,021,030.00	gals/yr	0.002223	lbs/hr	16.3524	7,356	0.0000	Barren Tank/EW Cells emissions factor derived from 2009 M29 stack test.
System Desc	cription: Refinery	Mercury Retort C	ircuit (S2.041	- S2.046/TU-	4.018 - TU4.023)			
Hg	51.20	tpy	0.002565	lbs/hr	7.3872	2,880	1.2200	Retort Circuit emissions factor derived from 2009 M29 stack test.
System Desc	cription: Electric I	Refinery Induction	Furnaces (S	2.047 - S2.04	9/TU4.024 - TU4.026)			
Hg	76.00	tpy	0.133972	lbs/hr	75.5736	564	0.0000	Induction Furnace emissions factor derived from 2009 M29 stack test.
System Desc	cription: Carbon I	Kiln #1 (Zadra Pro	cess) Scrubb	er Stack (S2.	056/TU4.027)			
Hg	6,670.00	tpy	0.001756	lbs/hr	13.2209	7,529	0.0200	Kiln Scrubber Stack emissions factor derived from 2009 M29 stack test.
System Desc	cription: Carbon I	Kiln #2 (AARL Pro	cess) Scrubb	er Stack (S2.	058?TU4.028)			
Hg	6,635.00	tpy	0.010214	lbs/hr	66.6259	6,523	0.0200	Kiln Scrubber Stack emissions factor derived from 2009 M29 stack test.
System Desc	cription: Assay La	aboratory, Met La	boratory & Int	egrated Labo	ratory			
Hg					1.8984		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
_			CY2006 I	Facility Total:	310.6937		2.7200	CY2006 Co-product: 5,440.00 lbs/yr.
			CY2007 I	Facility Total:	504.4204		6.1600	CY2007 Co-product: 12,320.00 lbs/yr.
			CY2008 I	Facility Total:	422.4137		6.7700	CY2008 Co-product: 13,540.00 lbs/yr.
			CY2009 F	acility Total:	280.6857		5.3900	CY2009 Co-product: 10.780 lbs/yr.
Source: Nev	vmont Mining Cor	poration - Midas	Operations: A	AQOP AP104	1-0766.01; NMCP AP1	041-2253		
		Furnace #1 (S2.0						
Hg	78.00	tpy	0.00252	lbs/hr	2.5049	994	0.0000	Furnace #1 emissions factor derived from 2009 M29 stack test.
System Desc	cription: Refinery	Furnace #2 (S2.0	036/TU4.002)					
Hg	120.00	tpy	0.00316	lbs/hr	1.8423	583	0.0000	Furnace #2 emissions factor derived from 2009 M29 stack test.
System Desc		(S2.037/TU4.003						
Hg	134.00	tpy	0.00000237	lbs/hr	0.0083	3,518	0.0000	Retort A emissions factor derived from 2009 M29 stack test.
System Desc		(S2.038/TU4.004						
Hg	94.00	tpy	0.0000835	lbs/hr	0.2601	3,115	0.0000	Retort B emissions factor derived from 2009 M29 stack test.
System Desc	cription: Assay La	aboratory						
Hg				lbs/hr	1.8239		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
				Facility Total:	17.1801		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				Facility Total:	4.2457		0.0000	CY2007 Co-product: 0.00 lbs/yr.
				Facility Total:	41.3420		0.0000	CY2008 Co-product: 0.00 lbs/yr.
				acility Total:			0.0000	CY2009 Co-product: 0.00 lbs/yr.
					-1362; NMCP AP1041	-2246		
System Desc		Fired Carbon Re		n (S2.001/TL				
Hg	96.99	tpy	0.000067	lbs/hr	0.0726	1,084	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
System Desc	cription: Propane	Fired Mercury Re						
Hg	3.76	tpy	0.0000538	lbs/hr	0.0034	625	1.5600	Retort emissions factor derived from 2009 M29 stack test.
System Desc	cription: Propane	Fired Bullion Fur	nace (S2.003)	/TU4.003)				
	4.00	tpy	0.00131	lbs/hr	0.1939	148	0.0000	Bullion Furnace emissions factor derived from 2009 M29 stack test.
-	•							•

					-1362; NMCP AP1041	-2246 (cont	inued)	
System De	escription: Electro-	winning Circuit (IA	1.024/TU4.00	4)				
Hg	47,320.50	tpy	0.000501	lbs/hr	2.5050	5,000	0.0000	Electro-winning Cells emissions factor derived from 2009 M29 stack test.
	escription: Barren		k (TU4.005)					Barren Strip Solution Tank vented to a common stack with Electro-winning
Hg	47,320.50	tpy		lbs/hr	0.0000		0.0000	Cells, therefore, emissions factor is for both units.
	escription: Assay L	aboratory			2 1 2 1 2			Te
Hg			0)/222		3.1246		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
				acility Total:	204.3025	<u> </u>	2.9400	CY2006 Co-product: 5,880.00 lbs/yr.
				acility Total:	57.4138	ļ	2.2750	CY2007 Co-product: 4,550.00 lbs/yr.
				acility Total:	278.3220 <b>5.8995</b>	ļ	2.6000 <b>1.5600</b>	CY2008 Co-product: 5,200.00 lbs/yr.
C+	anneath Davids	Minima O		cility Total:		), NIMOD AD		CY2009 Co-product: 3,120.00 lbs/yr.
					QOP AP1041-1116.02	S, NIVICE AP	1041-2245	
	escription: Carbon 270.00		0.000222	lbs/hr	1 4000	6.400	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
Hg		tpy			1.4390	6,482	0.0000	Carbon Kiin emissions factor derived from 2009 M29 stack test.
System De Hg	escription: Electro- Not Reported		0.0000838	2) lbs/hr	0.5541	6,612	0.0000	Electro-winning Cells emissions factor derived from 2009 M29 stack test.
	escription: Refinery				0.3341	0,012	0.0000	Lieutio-willing delia emissiona lautoi denved nom 2003 iviza stack test.
Hg	8.25	tpy	0.0957	lbs/hr	9.4934	99	0.0000	Refinery Furnace emissions factor derived from 2009 M29 stack test.
	escription: System				J.4304	J 33	0.0000	premiery i umace emissions factor defived from 2003 iviza stack lest.
Hg	8.25	tpy	0.000285	lbs/hr	0.5022	1,762	0.0258	Retort emissions factor derived from 2009 M29 stack test.
	escription: Fire Ass		0.000203	IDO/III	0.0022	1,702	0.0230	וויסנטיז פווויסטיווים ומטנטי מפווייפט וויטווו בטטס ועובס פנמטא נפסנ.
Hg	Joniphon. The Ass	Laboratory		Ţ	0.0142		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
rig	1	ı	CY2006 F	acility Total:	351.5928		0.0621	CY2006 Co-product: 124.20 lbs/yr.
				acility Total:	39.5645	<del> </del>	0.0021	CY2007 Co-product: 55.20 lbs/yr.
I				acility Total:	13.0908	<u> </u>	0.0270	CY2008 Co-product: 52.40 lbs/yr.
I				cility Total:	12.0029	<u> </u>	0.0258	CY2009 Co-product: 52.40 lbs/yr.
Source: Li	veroft Resources	Development In		_	AQOP AP1041-0334.0	∩2· NIV4⊂D v		10 12000 CO product. O 1.00 IDS/yr.
	escription: Mercury			wis Froject. /	NGOL AL 1041-0334.0	UZ, INIVIOF A	1 1041-2200	
Hg	Not Reported		0.0000408	lbs/hr	0.0764	1,872	0.8000	Retort emissions factor derived from 2009 M29 stack test.
	escription: Smelting			103/111	0.0704	1,012	0.0000	וויסנטיז פווויסטוטיוס ומטנטי מפווייסט וויטווי בייטט ויובט זנמטא נפסנ.
Hg	Not Reported		0.000016	lbs/hr	0.0188	1,172	0.0000	Refinery Furnace emissions factor derived from 2009 M29 stack test.
	escription: Assay L		0.000010	100/111	0.0100	1,112	0.0000	promoty i arriade emissions lactor defived from 2000 lvi29 stack lest.
Hg	Pooripilori. Adday L	Lacoratory		J	4.4348		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
119	1	ı	CY2006 F	acility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				acility Total:	0.0000	<b>+</b>	0.0000	CY2007 Co-product: 0.00 lbs/yr.
				acility Total:	0.0000	<del> </del>	0.0000	CY2008 Co-product: 0.00 lbs/yr.
				cility Total:	4.5299	1	0.8000	CY2009 Co-product: 1,600.00 lbs/yr.
Source: A	ntler Peak Gold In	c. (formerly Metal			NP1041-1202; NMCP	AP1041-224		, ,
	escription: Dore Fu					10 11 224	_	
5,5.5111 50				J				Facility did not operate in 2009.
Hg					0.2838		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
9	1	1	CY2006 F	acility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				acility Total:	0.0000	<b>+</b>	0.0000	CY2007 Co-product: 0.00 lbs/yr.
				acility Total:	0.2838	<del> </del>	0.0000	CY2008 Co-product: 0.00 lbs/yr.
				cility Total:	0.2838	<u> </u>	0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Co	oeur D'Alene Minir	g Corporation - C			P AP1044-0063.02; N	MCP AP10		
	escription: Refinery							
Hg	80.40	tpy	0.00899	lbs/hr	2.5194	280	0.0000	Refinery Furnace emissions factor derived from 2009 M29 stack test.
	escription: Mercury			150/111	2.0107		0.0000	promisely a structure demonstrate destroy defined from 2000 Mi20 States lest.
Hg	114.48	tpy	0.00000405	lbs/hr	0.0097	2,400	10.7000	Retort emissions factor derived from 2009 M29 stack test.
	escription: Assay L		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.100.			The state of the s
Hg		]			1.8805		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
9	1	1	CY2006 F	acility Total:	2.8872		16.1000	CY2006 Co-product: 32,200.00 lbs/yr.
				acility Total:	137.0958	İ	15.4000	CY2007 Co-product: 30,800.00 lbs/yr.
				acility Total:	1.8805	†	15.6000	CY2008 Co-product: 31,200.00 lbs/yr.
				cility Total:	4.4097	İ	10.7000	CY2009 Co-product: 21,400.00 lbs/yr.
Source: No	ewmont Mining Co	rnoration - Lone			0059; NMCP AP1041-	-2251		, , , , , , , , , , , , , , , , , , , ,
	escription: Electro-			OI AI 1041-0	JOSS, INIVIOL AT 1041-	LLU 1		
Hg	3,985,248.00	gals/yr	0.00013	lbs/hr	0.1747	1,344	0.0000	EW Cells emissions factor derived from 2009 M29 stack test.
	escription: Electro-			103/111	0.1747	1,044	0.0000	TEN COMO OTHIOGIOTIO INCIDI MOTIVO HOTH 2000 IVIZO STROIN TEST.
Hg	3,985,248.00	gals/yr	0.000554	lbs/hr	0.7446	1,344	0.0000	IEW Cells emissions factor derived from 2009 M29 stack test.
119	5,555,275.00	gaio, yi	0.000004	100/111	0.7 170	1,544	0.0000	

	ewmont Mining Co	rporation - Lone T	ree Mine: AC	OP AP1041-	0059; NMCP AP1041-	2251 (contin	nued)	
System Des	scription: Electro-v					, , ,		
Hg	3,985,248.00	gals/yr	0.000138	lbs/hr	0.1855	1,344	0.0000	EW Cells emissions factor derived from 2009 M29 stack test.
System Des	scription: Pregnan	t and Barren Solu	ution Tanks					
Hg	351.00	tpy - carbon	0.00375	lbs/hr	4.2300	1,128	0.0000	Preg./Barren Tanks emissions factor derived from 2009 M29 stack tests.
System Des	scription: Sample	Room, Fire Assay	y Room, Wet I	Laboratory, LI	ECO Laboratory, Met I	aboratory		
Hg					1.8788		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006	Facility Total:	622.1013		0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007	Facility Total:	148.0964		0.0000	CY2007 Co-product: 0.00 lbs/yr.
			CY2008	Facility Total:	67.1251		0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 F	acility Total:	7.2136		0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Ba	arrick Cortez, Inc	Cortez Hills and	Pipeline Proje	cts: AQOP A	P1041-2141; NMCP A	AP1041-2220	)	
System Des	scription: Refinery	Induction Furnac	e #1 (S2.002/	TU4.003)				
Hg	20.70	tpy	0.000106	lbs/hr	0.0409	385	0.0000	Refinery Furnace emissions factor derived from 2009 M29 stack test.
System Des	scription: Refinery	Induction Furnac	e #2 (S2.003/	TU4.004)				
Hg	0.80	tpy	0.000131	lbs/hr	0.0032	25	0.0000	Refinery Furnace emissions factor derived from 2009 M29 stack test.
System Des	scription: Electric	Carbon Reactivat	ion Kiln #1 (S	2.007/TU4.00	5)			
					•			Carbon Kiln #1 emissions factor derived from 2010 M29 stack test.
Hg	86.60	tpy	0.0000497	lbs/hr	0.0081	163	0.0000	Major component failure forced repairs delaying testing until 01/28/10.
	scription: Electric			2.008/TU4.00	6)			1 7 0
Hg	1,398.50	tpy	0.0000168		0.0393	2,341	0.0170	Carbon Kiln #2 emissions factor derived from 2009 M29 stack test.
	scription: East Ele							
Hg	Not Reported		0.0000268	lbs/hr	0.1891	7,055	0.0000	EW Cells emissions factor derived from 2009 M29 stack test.
	scription: West Ele			J4.002)				
Hg	Not Reported		0.0000125	lbs/hr	0.0955	7,641	0.0000	EW Cells emissions factor derived from 2009 M29 stack test.
	scription: Fire Ass			/TU4.007a-f)				
Hg	15.21	tpy	0.0000299	lbs/hr	0.1527	5,107	0.0000	Furnace emissions factor derived from 2009 M29 stack test.
	scription: Pregnan							
Hg	Not Reported		0.00000803		0.0588	7,317	0.0000	Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.
System Des	scription: Assay L	aboratory (Analyti	ical Lab Buildi	ng), Met Labo	ratory, Strip Circuit Ar	ea (Mill Build	ding), Refinery	Gold Sludge Drying Oven
Hg					0.8029	,	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
	•	•	CY2006	Facility Total:	166.7059		0.1200	CY2006 Co-product: 240.00 lbs/yr.
			CY2007	Facility Total:		İ	0.3200	CY2007 Co-product: 640.00 lbs/yr.
				Facility Total:		İ		
							0.0000	CY2008 Co-product: 0.00 lbs/yr.
				acility Total:		Ī	0.0000 <b>0.0170</b>	CY2008 Co-product: 0.00 lbs/yr.  CY2009 Co-product: 34.00 lbs/yr.
Source: Flo	orida Canvon Minir	ng Inc - Florida (	CY2009 F	acility Total:	1.3905	21041-2256		CY2008 Co-product: 0.00 lbs/yr.  CY2009 Co-product: 34.00 lbs/yr.
			CY2009 For Canyon Mine:	AQOP AP10		21041-2256		
System Des	scription: Mercurt	Retort (System 6	CY2009 Fanyon Mine: - S2.003/TU4	AQOP AP10 .004)	<b>1.3905</b> 41-0106.02; NMCP AF		0.0170	CY2009 Co-product: 34.00 lbs/yr.
System Des Hg	scription: Mercurt 1.09	Retort (System 6 tpy	CY2009 F Canyon Mine: - S2.003/TU4 0.0000026	AQOP AP10 .004) lbs/hr	1.3905	79		
System Des Hg System Des	1.09 scription: Mercurt	Retort (System 6 tpy Retort (System 6	CY2009 F Canyon Mine: - S2.003/TU4 0.0000026 - S2.004/TU4	AQOP AP10 .004) lbs/hr .005)	1.3905 41-0106.02; NMCP AF 0.0002	79	0.0170	CY2009 Co-product: 34.00 lbs/yr.  Retort emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg	1.09 scription: Mercurt 10.26	Retort (System 6 tpy Retort (System 6 tpy	CY2009 F Canyon Mine: - S2.003/TU4 0.0000026 - S2.004/TU4 0.00000055	AQOP AP10 .004) lbs/hr .005)	<b>1.3905</b> 41-0106.02; NMCP AF		0.0170	CY2009 Co-product: 34.00 lbs/yr.
System Des Hg System Des Hg System Des	scription: Mercurt 1.09 scription: Mercurt 10.26 scription: Summit	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir	CY2009 F. Canyon Mine: - S2.003/TU4 0.0000026 - S2.004/TU4 0.00000055 nning Cell A (1	AQOP AP10 .004) lbs/hr .005) lbs/hr U4.002)	1.3905 41-0106.02; NMCP AF 0.0002 0.0005	79 928	0.0170	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des	1.09 scription: Mercurt 1.09 scription: Mercurt 10.26 scription: Summit 60.00	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.0000055 ning Cell A (1 0.00083	AQOP AP10 .004) lbs/hr .005) lbs/hr U4.002) lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002	79	0.0170	CY2009 Co-product: 34.00 lbs/yr.  Retort emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt 1.09 scription: Mercurt 10.26 scription: Summit	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.00000055 ning Cell A (1 0.00083	AQOP AP10 .004) lbs/hr .005) lbs/hr TU4.002) lbs/hr TU4.003)	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708	79 928 8,760	0.0170 0.0000 0.8120 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt 1.09 scription: Mercurt 10.26 scription: Summit 60.00 scription: Summit	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.0000055 nning Cell A (7 0.00083	AQOP AP10 .004) lbs/hr .005) lbs/hr TU4.002) lbs/hr TU4.003) lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196	79 928 8,760 8,760	0.0170	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.0000055 nning Cell A (7 0.00083 nning Cell B (7 0.00071 nal Carbon Re	AQOP AP10 .004) lbs/hr .005) lbs/hr U4.002) lbs/hr U4.003) lbs/hr egeneration K	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007	79 928 8,760 8,760 7TU4.008)	0.0170 0.0000 0.8120 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des	1.09     1.09	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy	CY2009 F Canyon Mine: - \$2.003/TU4	AQOP AP10 .004) lbs/hr .005) lbs/hr TU4.002) lbs/hr TU4.003) lbs/hr egeneration K lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017	79 928 8,760 8,760	0.0170 0.0000 0.8120 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt 1.09 scription: Mercurt 10.26 scription: Summit 60.00 scription: Summit 60.00 scription: Combus 1,659.73 scription: Inductoti	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnaci	CY2009 F Canyon Mine: - \$2.003/TU4	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr - \$2.005/TU4	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017	79 928 8,760 8,760 /TU4.008) 6,292	0.0170 0.0000 0.8120 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus  1,659.73 scription: Inductot	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnar tpy	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004) lbs/hr .005) lbs/hr TU4.002) lbs/hr TU4.003) lbs/hr egeneration K lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017	79 928 8,760 8,760 7TU4.008)	0.0170 0.0000 0.8120 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus  1,659.73 scription: Inductot  8.80 scription: Pregnan	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnar tpy tt Tank (TU4.006)	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004) lbs/hr .005) lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 001)	79 928 8,760 8,760 7TU4.008) 6,292	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus  1,659.73 scription: Inductot  8.80 scription: Pregnan  8,760.00	Retort (System 6 tpy  Retort (System 6 tpy  Valley Electro-wir gals/min  Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnac tpy tt Tank (TU4.006) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr - \$2.005/TU4	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017	79 928 8,760 8,760 /TU4.008) 6,292	0.0170 0.0000 0.8120 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus  1,659.73 scription: Inductot  8.80 scription: Pregnan  8,760.00 scription: Barren 1	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnac tpy tt Tank (TU4.006) hrs/yr Tank (TU4.007)	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr - S2.005/TU4  lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 .001) 0.0882 0.0000	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.026   1.02	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004) lbs/hr .005) lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 001)	79 928 8,760 8,760 7TU4.008) 6,292	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Mercurt  1.09 scription: Mercurt  10.26 scription: Summit  60.00 scription: Summit  60.00 scription: Combus  1,659.73 scription: Inductot  8.80 scription: Pregnan  8,760.00 scription: Barren 1	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4   0.0000026 - \$2.004/TU4   0.0000055   0.00083   0.00071   nal Carbon Re   0.00515   ce (System 7-0.00027	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr - S2.005/TU4  lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 .001) 0.0882 0.0000	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.026   1.02	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4	AQOP AP10 .004)   lbs/hr .005)   lbs/hr   U4.002)   lbs/hr - U4.003)   lbs/hr egeneration K   lbs/hr - S2.005/TU4   lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 .001) 0.0882 0.0000 0.0000	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.  No emissions factor available - closed circuit.  Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.026   1.02	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.0000055 nining Cell A (1 0.0008 10.00071 nal Carbon Re 0.00515 ce (System 7 0.00027	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr s2.005/TU4 lbs/hr  lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 001) 0.0882 0.0000 0.0000 3.6307 440.7382	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.  No emissions factor available - closed circuit.  Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev. CY2006 Co-product: 452.80 lbs/yr.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.026   1.02	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr - S2.005/TU4 lbs/hr  lbs/hr  lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 .001) 0.0882 0.0000 0.0000 3.6307 440.7382 19.0000	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.  No emissions factor available - closed circuit.  Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev. CY2006 Co-product: 452.80 lbs/yr.  CY2007 Co-product: 14.40 lbs/yr.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.09   1.026   1.02	Retort (System 6 tpy Retort (System 6 tpy Valley Electro-wir gals/min Valley Electro-wir gals/min tion Air Internatio tpy herm Dore Furnat tpy tt Tank (TU4.006) hrs/yr ank (TU4.007) hrs/yr	CY2009 F Canyon Mine: - \$2.003/TU4 0.0000026 - \$2.004/TU4 0.00000055 nning Cell A (T 0.00083 nning Cell B (T 0.00071 nal Carbon Re 0.00515 ce (System 7 0.00027	AQOP AP10 .004)  lbs/hr .005)  lbs/hr TU4.002)  lbs/hr TU4.003)  lbs/hr egeneration K lbs/hr s2.005/TU4 lbs/hr  lbs/hr	1.3905 41-0106.02; NMCP AF 0.0002 0.0005 7.2708 6.2196 iln (System 9 - S2.007 32.4017 .001) 0.0882 0.0000 0.0000 3.6307 440.7382 19.0000 162.3117	79 928 8,760 8,760 7TU4.008) 6,292 327 8,760	0.0170 0.0000 0.8120 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Retort emissions factor derived from 2009 M29 stack test.  Retort emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Electro-winning Cells emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Dore Furnace emissions factor derived from 2009 M29 stack test.  No emissions factor available - closed circuit.  No emissions factor available - closed circuit.  Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev. CY2006 Co-product: 452.80 lbs/yr.

Source: Roi	und Mountain Gol	d Corporation - S	moky Valley C	Common Oner	ration: AQOP AP1041	-0444.01: N	MCP AP1041-	2250
	cription: Carbon					2		
Hg	3,312.00	tpy	0.0000699	lbs/hr	0.6048	8,652	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
					ck with S2.121/TU4.00			
Hg	Approx. 45	gals/min		lbs/hr	0.0000	8,760	0.0000	Emissions combined with Carbon Kiln.
			k #1 (Shares a		ack with S2.121/TU4.0			
Hg	Approx. 45	gals/min		lbs/hr	0.0000	8,760	0.0000	Emissions combined with Carbon Kiln.
System Desc	cription: Barren S	Strip Solution Tan	k #2 (Shares a		ack with S2.121/TU4.0	04)		
Hg	Approx. 45	gals/min		lbs/hr	0.0000	8,760	0.0000	Emissions combined with Carbon Kiln.
System Desc	cription: Electric	Induction Furnace	e (S2.130/TU4	.005)				
Hg	47.00	tpy	0.00158	lbs/hr	0.9227	584	0.0000	Induction Furnace emissions factor derived from 2009 M29
System Desc	cription: Refinery	Electro-winning \	Vent & Ovens,	Assay Labor				
Hg					3.0603		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
I				acility Total:	57.0585		0.0085	CY2006 Co-product: 17.00 lbs/yr.
I				acility Total:	59.6652		0.0000	CY2007 Co-product: 0.00 lbs/yr.
I				acility Total:	8.3173		0.0000	CY2008 Co-product: 0.00 lbs/yr.
				acility Total:			0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Hor	mestake Mining C	company of Califo	rnia - Ruby Hil	Il Mine: AQO	P AP1041-0713.01; N	MCP AP104	1-2252	
	cription: Electric	1						
Hg	94.40	tpy	0.00077	lbs/hr	0.9810	1,274	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
	cription: Electric							
Hg	5.61	tpy	0.0000008	lbs/hr	0.0007	911	0.1762	Retort emissions factor derived from 2009 M29 stack test.
	cription: Electric					165	0.000	
Hg	4.46	tpy	0.00187	lbs/hr	0.1870	100	0.0000	Furnace emissions factor derived from 2009 M29 stack test.
	cription: Electro-				4 700 4	0.700	0.0000	
Hg		gals/yr	0.00054	lbs/hr	4.7304	8,760	0.0000	Electro-winning Cells emissions factor derived from 2009 M29 stack test.
	cription: Pregnan		Solution I an				0.0000	Pregnant and Barren Strip Solution Tanks vented to a common stack with
Hg	Larintian, Assaul	gals/yr		lbs/hr	0.0000		0.0000	Electro-winning Cells, therefore, emissions factor is for both units.
	cription: Assay L	aboratory	1		1 2002		0.0000	Detential to amit (DTE) not natural and De Minimia Designation Tech Dev
Hg	1	<u> </u>	CV2006	acility Total:	1.3883 28.7825		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
I				-acility Total:	28.7825 35.2201		0.5000 0.3800	CY2007 Co-product: 1,000.00 lbs/yr. CY2007 Co-product: 760.00 lbs/yr.
I				-acility Total:	1.3883		0.3800	CY2007 Co-product: 760.00 lbs/yr.  CY2008 Co-product: 480.00 lbs/yr.
I				acility Total:			0.2400 <b>0.1762</b>	CY2009 Co-product: 480.00 lbs/yr.
Course Man	rigold Mining Com	nony Mariantal			.02; NMCP AP1041-22	25.4	0.1702	O 12003 OU-product. 302.40 IDS/yr.
	rigold Milning Con cription: Carbon				.02, INIVIOR AP 1041-22	204		
Hg	741.40	tpy	0.0000009	4.001) lbs/hr	0.0041	4,515	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
	cription: Mercury			105/111	0.0041	4,515	0.0000	Toarbon Min emissions ractor derived from 2003 MZ3 Stack lest.
Hg	9.20	tpy	0.000041	lbs/hr	0.0468	1,142	0.8160	Retort emissions factor derived from 2009 M29 stack test.
	cription: Tilting C				0.0400	1,174	0.0100	Thetert emissions ractor derived from 2003 MIZO Stack test.
Hg	5.70	tpy	0.000564	lbs/hr	0.1180	209	0.0000	Furnace emissions factor derived from 2009 M29 stack test.
	cription: Electro-			103/111	0.1100	200	0.0000	ין אוועסט טוווטטוטוט ועטנטו עטוויסט ווטוו בטטט וויובט טנעטו נפטנ.
Hg	50,256.00	tpy	0.000041	lbs/hr				Electro-winning Cells emissions factor derived from 2009 M29 stack test.
	cription: Pregnan							Pregnant and Barren Strip Solution Tanks vented to a common stack with
Hg	50,256.00	tpy	See Notes	lbs/hr				Electro-winning Cells, therefore, emissions factor is for all three units.
	cription: Barren S							g,,
Hg	50,256.00	tpy	See Notes	lbs/hr	0.2653	6,470	0.0000	
	cription: Assay La							
Hg					4.0198		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
J			CY2006 F	acility Total:	908.0610		0.1675	CY2006 Co-product: 335.00 lbs/yr.
			CY2007 F	acility Total:	5.2255		0.2450	CY2007 Co-product: 490.00 lbs/yr.
				acility Total:			0.5690	CY2008 Co-product: 1,138.00 lbs/yr.
			CY2009 Fa	acility Total:			0.8160	CY2009 Co-product: 1,632.0 lbs/yr.
Source: Bor	ealis Mining Com	pany: AQOP AP	1041-2125; NI	MCP AP1041	-2228			
System Desc	cription:							
Hg					0.0000		0.0000	Facility did not operate in 2009.
				acility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				acility Total:			0.0000	CY2007 Co-product: 0.00 lbs/yr.
I				acility Total:			0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009 Fa	acility Total:	0.0000		0.0000	CY2009 Co-product: 0.00 lbs/yr.

Source: Ba	arrick Turquoise Ric	dae Inc - Getch	all Mine: AOC	P ΔΡ10/1-02	92.01; NMCP AP104	1-22/10		
	scription: Assay/M		eli iviirie. AQC	7 AT 1041-02	.92.01, INIVIOR AF 104	1-2243		
Hg	Scription. Assay/ivi	Laboratory	ı		4.9462	ı	0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
пу			CVOOC	Facility Total:	10.6752		0.0000	CY2006 Co-product: 0.00 lbs/yr.
						<u>.</u>		
				Facility Total:	4.9660	1	0.0000	CY2007 Co-product: 0.00 lbs/yr.
				Facility Total:	4.9462	<u>.</u>	0.0000	CY2008 Co-product: 0.00 lbs/yr.
				acility Total:	4.9462		0.0000	CY2009 Co-product: 0.00 lbs/yr.
	den Research, LLC		I-2511; NMCP	AP1041-263	8			
System Des	scription: Assay La	aboratory						
Hg					2.7982		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2009 F	acility Total:	2.7982		0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Ro	oyal Standard Mine	rals, Inc Manha	attan Mine: A	QOP AP1041-	-1457; NMCP AP1041	1-2303		
System Des	scription: Dore Sm	nelting Furnace						
								Facility did not operate in 2009
Hg					4.1040		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 I	Facility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
			CY2007	Facility Total:	4.1040		0.0000	CY2007 Co-product: 0.00 lbs/yr.
				Facility Total:	4.1040	Ī	0.0000	CY2008 Co-product: 0.00 lbs/yr.
				acility Total:	4.1040	†	0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Ne	ewmont Mining Cor	poration - Phoen		•	20.02; NMCP AP1041	1-2247		,
	scription: Electric (							
Hg	2,310.00	tpy	0.0000785	lbs/hr	0.3022	3,850	0.0000	Carbon Kiln emissions factor derived from 2009 M29 stack test.
	scription: Mercury			100/111	0.0022	0,000	0.0000	Townson Time of the Control of the C
Hg	16.80	tpy	0.000339	lbs/hr	0.6407	1,890	0.0000	Retort emissions factor derived from 2009 M29 stack test.
	scription: Pregnant				0.0407	1,000	0.0000	Tretort emissions factor derived from 2003 Wi23 stack test.
Hg	Scription. Tregnam	l & barrerr ourp c	I I I I I I I I I I I I I I I I I I I	, I I	0.0940		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
	scription: Electro-v	vinning Colle			0.0340		0.0000	Toteritial to errit (1 TE); not actual - see be will limit besignation Tech. Hev.
Hg	Scription. Liectro-v	I	I		0.2733		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
rig			CV2006	Facility Total:	2.3061		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				Facility Total:	0.4579	4	0.0000	CY2007 Co-product: 0.00 lbs/yr.
			C120071	racility rotal.	0.4379		0.0000	10 12007 00-product. 0.00 lbs/yr.
			CV2000 E	acility Total:	1 2102	1	0.000	
Courses De	orrials Caldatrials Mi	nee Inc. ACCD		acility Total:	1.3102		0.0000	CY2009 Co-product: 0.00 lbs/yr.
Source: Ba	arrick Goldstrick Mi	nes, Inc.: AQOP					0.0000	
			AP1041-0739	9.01; NMCP A	P1041-2221	C2 205 01		CY2009 Co-product: 0.00 lbs/yr.
System Des	scription: Roaster	Mill Circuit #1 Air	AP1041-0739 Pre-Heater a	9.01; NMCP A	P1041-2221 ng Process (S2.204 &		S2.205.12/TU	CY2009 Co-product: 0.00 lbs/yr.  4.001)
System Des	escription: Roaster 2,495,594.00	Mill Circuit #1 Air	Pre-Heater at 0.00053	9.01; NMCP And Dry Grindir	P1041-2221 ng Process (S2.204 & 4.10962	7,754	S2.205.12/TU-	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air	Pre-Heater at 0.00053 Pre-Heater at 0.00053	9.01; NMCP A  nd Dry Grindir  lbs/hr  nd Dry Grindir	P1041-2221 ng Process (S2.204 & 4.10962 ng Process (S2.206 &	7,754 S2.207.01 -	S2.205.12/TU- 0.0000 S2.207.12/TU-	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002)
System Des Hg System Des Hg	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00	Mill Circuit #1 Air tpy Mill Circuit #2 Air	Pre-Heater at 0.00053 Pre-Heater at 0.00662	9.01; NMCP A  nd Dry Grindir  lbs/hr  d Dry Grindir  lbs/hr	P1041-2221  ng Process (\$2.204 & 4.10962) ng Process (\$2.206 & 52.0001)	7,754	S2.205.12/TU-	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg	scription: Roaster 2,495,594.00 scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air	Pre-Heater at 0.00053 Pre-Heater at 0.00662	9.01; NMCP A  nd Dry Grindir  lbs/hr  d Dry Grindir  lbs/hr	P1041-2221  ng Process (\$2.204 & 4.10962) ng Process (\$2.206 & 52.0001)	7,754 S2.207.01 -	S2.205.12/TU- 0.0000 S2.207.12/TU-	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00	Mill Circuit #1 Air tpy Mill Circuit #2 Air	Pre-Heater at 0.00053 Pre-Heater at 0.00662	9.01; NMCP A  nd Dry Grindir  lbs/hr  d Dry Grindir  lbs/hr	P1041-2221  ng Process (\$2.204 & 4.10962) ng Process (\$2.206 & 52.0001)	7,754 S2.207.01 -	S2.205.12/TU- 0.0000 S2.207.12/TU-	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test. Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing
System Des Hg System Des Hg	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00	Mill Circuit #1 Air tpy Mill Circuit #2 Air	Pre-Heater at 0.00053 Pre-Heater at 0.00662	9.01; NMCP A  nd Dry Grindir  lbs/hr  d Dry Grindir  lbs/hr	P1041-2221  ng Process (\$2.204 & 4.10962) ng Process (\$2.206 & 52.0001)	7,754 S2.207.01 -	S2.205.12/TU- 0.0000 S2.207.12/TU-	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is
System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.00662 0.1 & \$2.209.2	o.01; NMCP A  nd Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  lbs/hr  2/TU4.003 & T	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)	7,754 \$2.207.01 - 7,855	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851
System Des Hg System Des Hg System Des	2,495,594.00   scription: Roaster   2,404,814.00   scription: Roasters   2,404,814.00   scription: Roasters	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.00662 0.1 & \$2.209.2	nd Dry Grindir lbs/hr nd Dry Grindir lbs/hr lbs/hr 2/TU4.003 & T	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)	7,754 S2.207.01 -	S2.205.12/TU- 0.0000 S2.207.12/TU-	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is
System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.00662 0.1 & \$2.209.2	nd Dry Grindir lbs/hr nd Dry Grindir lbs/hr lbs/hr 2/TU4.003 & T	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)	7,754 \$2.207.01 - 7,855	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.
System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209 tpy Circuit #1 Quenc	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2 0.02189 hing Process	nd Dry Grindir   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr   Ibs/hr	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)	7,754 S2.207.01 - 7,855 7,864	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack
System Des Hg System Des Hg System Des	scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209 tpy Circuit #1 Quenc	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2 0.02189 hing Process 0.00446	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  //TU4.003 & T  lbs/hr  (S2.210/TU4.0	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)  172.14296  005)  35.01546	7,754 \$2.207.01 - 7,855	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.
System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.20s) tpy Circuit #1 Quenc	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2 0.02189 hing Process 0.00446	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  //TU4.003 & T  lbs/hr  (S2.210/TU4.0	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)  172.14296  005)  35.01546	7,754 S2.207.01 - 7,855 7,864	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster 2,897,993.00 scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209 tpy Circuit #1 Quenc	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  //TU4.003 & T  lbs/hr  (S2.210/TU4.005/hr  (S2.211/TU4.005/hr	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)  172.14296  005)  35.01546	7,754 \$2.207.01 - 7,855 7,864	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260	CY2009 Co-product: 0.00 lbs/yr.  4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des	2,495,594.00   2,495,594.00   scription: Roaster   2,404,814.00   scription: Roasters   5,491,210.00   scription: Roaster   2,897,993.00   scription: Roaster   2,593,217.00	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.200 tpy Circuit #1 Quenc tpy Circuit #2 Quenc	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  2/TU4.003 & T  lbs/hr  (S2.210/TU4.003 & T)  lbs/hr  (S2.211/TU4.003 & T)	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)  172.14296  005)  35.01546	7,754 S2.207.01 - 7,855 7,864	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster 2,897,993.00 scription: Roaster 2,593,217.00 scription: Analytica	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209 tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy Al Assay Laborato	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (S2.051/TL	o.01; NMCP A  and Dry Grindir lbs/hr nd Dry Grindir lbs/hr Z/TU4.003 & T  lbs/hr (S2.210/TU4.003/hr (S2.211/TU4.003/hr (S2.211/TU4.003/hr J4.007)	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234	7,754 S2.207.01 - 7,855  7,864  7,876	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260 0.0000	A.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster 2,897,993.00 scription: Roaster 2,897,993.00 scription: Roaster 2,593,217.00 scription: Analytica 68.00	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.200 tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.00662 0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TU 0.0001	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  2/TU4.003 & T  lbs/hr  (S2.210/TU4.(  lbs/hr  (S2.211/TU4.(  lbs/hr  J4.007)  lbs/hr	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  U4.004)  172.14296  005)  35.01546	7,754 \$2.207.01 - 7,855 7,864	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260	CY2009 Co-product: 0.00 lbs/yr.  4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster 2,897,993.00 scription: Roaster 2,897,993.00 scription: Roaster 2,593,217.00 scription: Analytica 68.00 scription: Carbon F	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.200  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln	Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TU 0.0001 (\$2.004.1/TU	o.01; NMCP A  and Dry Grindir lbs/hr nd Dry Grindir lbs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.0  lbs/hr (S2.211/TU4.0  lbs/hr J4.007) lbs/hr 4.008)	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045	7,754 S2.207.01 - 7,855  7,864  7,851  7,876  8,045	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	Scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2 0.02189 hing Process 0.00446 hing Process 0.00465 pry (S2.051/TU 0.0001 (S2.004.1/TU-0.00041	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  2/TU4.003 & T  lbs/hr  (S2.210/TU4.0  lbs/hr  (S2.211/TU4.0  lbs/hr  J4.007)  lbs/hr  J4.008)	P1041-2221  ng Process (S2.204 & 4.10962  ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861	7,754 S2.207.01 - 7,855  7,864  7,876	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000 60.1260 0.0000	A.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	Scription: Roaster	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip S	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & S2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (S2.051/TU 0.0001 (S2.004.1/TU 0.00041 Solution Tank	o.01; NMCP A  and Dry Grindir  lbs/hr  nd Dry Grindir  lbs/hr  2/TU4.003 & T  lbs/hr  (S2.210/TU4.0  lbs/hr  (S2.211/TU4.0  lbs/hr  J4.007)  lbs/hr  J4.008)  lbs/hr  Gricuit A (TU4	P1041-2221  ng Process (S2.204 & 4.10962  ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861  1.009 & TU4.011)	7,754 S2.207.01 - 7,855  7,864  7,851  7,876  8,045  7,527	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.
System Des Hg System Des System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Roaster 2,495,594.00 scription: Roaster 2,404,814.00 scription: Roasters 5,491,210.00 scription: Roaster 2,897,993.00 scription: Roaster 2,593,217.00 scription: Analytica 68.00 scription: Carbon F 12,701.00 scription: Pregnan Not Reported	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy s #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip S gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 0.00041 Solution Tank 0.0005	o.01; NMCP A  and Dry Grindir bs/hr nd Dry Grindir bs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.003/hr (S2.211/TU4.003/hr J4.007) lbs/hr J4.008) lbs/hr Circuit A (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861  4.009 & TU4.011)  4.3800	7,754 S2.207.01 - 7,855  7,864  7,851  7,876  8,045	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000	4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica  68.00 scription: Carbon F 12,701.00 scription: Pregnan  Not Reported scription: Pregnan	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.205  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborate tpy teactivation Kiln tpy t & Barren Strip 5 gals/yr t & Barren Strip 5	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 bry (\$2.051/TL 0.0001 0.00041 Golution Tank 0.0005 Golution Tank	a.01; NMCP A and Dry Grindir bs/hr nd Dry Grindir bs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.0 lbs/hr (S2.211/TU4.0 lbs/hr J4.007) lbs/hr 4.008) lbs/hr Circuit A (TU4 lbs/hr Circuit B (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012)	7,754 S2.207.01 - 7,855  7,864  7,876  8,045  7,527  8,760	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000  0.0000	CY2009 Co-product: 0.00 lbs/yr.  4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica 68.00 scription: Carbon F 12,701.00 scription: Pregnant Not Reported scription: Pregnant Not Reported	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip 9 gals/yr t & Barren Strip 9 gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 (\$2.004.1/TU 0.00041 Solution Tank 0.0005 Solution Tank 0.00037	o.01; NMCP A  and Dry Grindir bs/hr nd Dry Grindir bs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.003/hr (S2.211/TU4.003/hr J4.007) lbs/hr J4.008) lbs/hr Circuit A (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  "U4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012) 3.2412	7,754 S2.207.01 - 7,855  7,864  7,851  7,876  8,045  7,527	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica  68.00 scription: Carbon F 12,701.00 scription: Pregnan  Not Reported scription: Pregnan	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip 9 gals/yr t & Barren Strip 9 gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 (\$2.004.1/TU 0.00041 Solution Tank 0.0005 Solution Tank 0.00037	a.01; NMCP A and Dry Grindir bs/hr nd Dry Grindir bs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.0 lbs/hr (S2.211/TU4.0 lbs/hr J4.007) lbs/hr 4.008) lbs/hr Circuit A (TU4 lbs/hr Circuit B (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  TU4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012)	7,754 S2.207.01 - 7,855  7,864  7,876  8,045  7,527  8,760	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000  0.0000	A.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica 68.00 scription: Carbon F 12,701.00 scription: Pregnant Not Reported scription: Pregnant Not Reported	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip 9 gals/yr t & Barren Strip 9 gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 (\$2.004.1/TU 0.00041 Solution Tank 0.0005 Solution Tank 0.00037	a.01; NMCP A and Dry Grindir bs/hr nd Dry Grindir bs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.0 lbs/hr (S2.211/TU4.0 lbs/hr J4.007) lbs/hr 4.008) lbs/hr Circuit A (TU4 lbs/hr Circuit B (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  "U4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012) 3.2412	7,754 S2.207.01 - 7,855  7,864  7,876  8,045  7,527  8,760	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000  0.0000	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.  Autoclave Circuit #1 emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica 68.00 scription: Carbon F 12,701.00 scription: Pregnant Not Reported scription: Pregnant Not Reported	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip 9 gals/yr t & Barren Strip 9 gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 (\$2.004.1/TU 0.00041 Solution Tank 0.0005 Solution Tank 0.00037	a.01; NMCP A and Dry Grindir bs/hr nd Dry Grindir bs/hr nd Dry Grindir lbs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.003 & T  lbs/hr (S2.211/TU4.003 & T  lbs/hr J4.007) lbs/hr 4.008) lbs/hr Circuit A (TU4 lbs/hr Circuit B (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  "U4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012) 3.2412	7,754 S2.207.01 - 7,855  7,864  7,876  8,045  7,527  8,760	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000  0.0000	CY2009 Co-product: 0.00 lbs/yr.  4.001) Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test. 4.002) Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.
System Des Hg System Des Hg System Des System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg System Des Hg	scription: Roaster  2,495,594.00 scription: Roaster  2,404,814.00 scription: Roasters  5,491,210.00 scription: Roaster  2,897,993.00 scription: Roaster  2,593,217.00 scription: Analytica 68.00 scription: Carbon F 12,701.00 scription: Pregnant Not Reported scription: Pregnant Not Reported	Mill Circuit #1 Air tpy Mill Circuit #2 Air tpy S #1 & #2 (S2.209  tpy Circuit #1 Quenc tpy Circuit #2 Quenc tpy al Assay Laborato tpy Reactivation Kiln tpy t & Barren Strip 9 gals/yr t & Barren Strip 9 gals/yr	Pre-Heater at 0.00053 Pre-Heater at 0.00053 Pre-Heater at 0.00662 0.1 & \$2.209.2  0.02189 hing Process 0.00446 hing Process 0.00465 pry (\$2.051/TL 0.0001 (\$2.004.1/TU 0.00041 Solution Tank 0.0005 Solution Tank 0.00037	a.01; NMCP A and Dry Grindir bs/hr nd Dry Grindir bs/hr nd Dry Grindir lbs/hr lbs/hr 2/TU4.003 & T  lbs/hr (S2.210/TU4.003 & T  lbs/hr (S2.211/TU4.003 & T  lbs/hr J4.007) lbs/hr 4.008) lbs/hr Circuit A (TU4 lbs/hr Circuit B (TU4	P1041-2221  ng Process (S2.204 & 4.10962 ng Process (S2.206 & 52.0001  "U4.004)  172.14296  005)  35.01546  006)  36.6234  0.8045  3.0861 4.009 & TU4.011) 4.3800 4.010 & TU4.012) 3.2412	7,754 S2.207.01 - 7,855  7,864  7,876  8,045  7,527  8,760	\$2.205.12/TU 0.0000 \$2.207.12/TU 0.0000  60.1260  0.0000  0.0000  0.0000  0.0000	4.001)  Roaster Mill Circuit #1 emissions factor derived from 2009 M29 stack test.  4.002)  Roaster Mill Circuit #2 emissions factor derived from 2009 M29 stack test.  Roaster Circuit emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Roaster operations. Annual hours operated is the average of individual Roaster operations. Roaster #1 operated 7,851 hrs/yr, Roaster #2 operated 7,876 hrs/yr.  Roaster Quench Circuit #1 emissions factor derived from 2009 M29 stack test.  Roaster Quench Circuit #2 emissions factor derived from 2009 M29 stack test.  Assay Lab emissions factor derived from 2009 M29 stack test.  Carbon Kiln emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.  Preg./Barren Tanks emissions factor derived from 2009 M29 stack test.  Autoclave Circuit #1 emissions factor derived from 2009 M29 stack test.

Source: Bar	rick Goldstrick Min	nes, Inc.: AQOP	AP1041-0739	9.01; NMCP A	AP1041-2221 (continue	ed)		
	cription: Autoclav				Alkaline Operation			
Hg	60,743.00	tpy		lbs/hr	0.0000	387	0.0000	No 2009 NDEP approved M29 testing during alkaline operations mode. Autoclave #1 (TU4.013) operated 387 hours in alkaline mode. Internal testing was conducted, but the NDEP did not pre-approve the testing protocol or methodology, nor validate the test results.
	cription: Autoclav	e Circuit #2 (S2 (	)16 & S2 017/				Operation	protocol of mothodology, not validate the test results.
Hq	918,520.00	·	0.00086	lbs/hr	3.2508	3,780	0.0000	Autoclave Circuit #2 emissions factor derived from 2009 M29 stack test.  Testing was conducted during dual Autoclave operation and only during acidic operations mode. Annual hours operated is the average of individual Autoclave operations. Autoclave #2 (TU4.014) operated 4,296 hrs/yr;  Autoclave #3 (TU4.015) operated 3,263 hrs/yr.
	cription: Autoclav	tpy					e Operation	Adiociave #5 (104.015) operated 5,205 fils/yr.
Hg	764,200.00 cription: Autoclav	tpy		lbs/hr	0.0000 Acidic Operation	3,386	0.0000	No 2009 NDEP approved M29 testing during alkaline operations mode. Autoclave #2 (TU4.014) operated 3,591 hours in alkaline mode and Autoclave #3 (TU4.015) operated 3,186 hours in alkaline mode (average of 3,386 hours). Internal testing was conducted, but the NDEP did not preapprove the testing protocol or methodology, nor validate the test results.
Hg	531,350.00	tpy	0.00107	lbs/hr	4.6385	4,335	0.0000	Autoclave Circuit #3 emissions factor derived from 2009 M29 stack test. Testing was conducted in 2009 during acidic operations mode only.
System Desc	cription: Autoclav	e Circuit #3 (S2.0	)18/TU4.016)		Alkaline Operation			
Hg	210,101.00	tpy		lbs/hr	0.0000	1,344	0.0000	No 2009 NDEP approved M29 testing during alkaline operations mode.  Autoclave #3 (TU4.016) operated 1,344 hours in alkaline mode. Internal testing was conducted, but the NDEP did not pre-approve the testing protocol or methodology, nor validate the test results.
System Desc	cription: Autoclav	e Circuit #4 (S2.0	)19 & S2.020/	TU4.017 & TI	U4.018)	Acidic	Operation	
Hg	1,251,783.00	tpy	0.00117	lbs/hr	6.0910	5,206	0.0000	Autoclave Circuit #4 emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Autoclave operation and only during acidic operations mode. Annual hours operated is the average of individual Autoclave operations. Autoclave #5 (TU4.017) operated 5,056 hrs/yr; Autoclave #6 (TU4.018) operated 5,356 hrs/yr.
System Desc	cription: Autoclav	e Circuit #4 (S2.0	)19 & S2.020/	104.01/ & 10	U4.018)	Alkalin	e Operation	No 0000 NIDED and and MOO to discust the first state of the first stat
lla.	556,572.00	tou		lb o /bv	0.0000	0.514	0.0000	No 2009 NDEP approved M29 testing during alkaline operations mode.  Autoclave #5 (TU4.017) operated 2,430 hours in alkaline mode and  Autoclave #6 (TU4.018) operated 2,598 hours in alkaline mode (average of 2,514 hours). Internal testing was conducted, but the NDEP did not pre-
Hg Systom Dose	cription: Mercury	tpy	00/THA 010\	lbs/hr	0.0000	2,514	0.0000	approve the testing protocol or methodology, nor validate the test results.
Hg	32.00	tpy	0.00245	lbs/hr	4.5521	1,858	0.0000	Retort emissions factor derived from 2009 M29 stack test.
	cription: Mercury			103/11	7.0021	1,000	0.0000	וויסנטרג טווווסטוטווט ועטנטו עטוויסט וויטוו בטטט ויובט טנעטה נפטנ.
Hg	36.00	tpv	0.00087	lbs/hr	1.8740	2,154	0.0000	Retort emissions factor derived from 2009 M29 stack test.
	cription: Mercury					,		
Hg	30.00	tpy	0.00332	lbs/hr	6.1619	1,856	0.0000	Retort emissions factor derived from 2009 M29 stack test.
	cription: Mercury		Cumulative Co	p-product)				
Hg							1.7470	Cumulative co-product for all three mercury retorts.
System Desc	cription: East & W	est Refinery Fur	naces & Elect	ro-winning Ce	ells combined vented the	hrough a co	mmon carbon fi	ilter and stack (S2.013 & S2.014/TU4.022 & TU4.023)
Hg	82.00 cription: Electro-w	tpy	0.02869	lbs/hr	12.5088	436	0.0000	Furnaces's/EW Cells emissions factor derived from 2009 M29 stack test. Testing was conducted during dual Furnace and EW Cell operations. Annual hours operated is the average of individual Furnace operations. East Furnace (TU4.022) operated 442 hrs/yr; West Furnace (TU4.023) operated 430 hrs/yr.
Hg	Not Reported	gals/yr	0.00154	lbs/hr	11.1558	7,244	0.0000	EW Cells emissions factor derived from 2009 M29 stack test while the Furnaces were not operating. Total EW Cell operating hours were 7,680 hrs/yr. Combined Furnace/EW Cell operating hours of 436 hrs/yr. was subtracted from total hours operated to arrive at 7,244 hours of EW Cell operations only.

Source: Barrick Goldstrick Mines, Inc.: AQOP AP1041-0739.01; NMCP AP1041-2221 (continued)									
System Description: Assay, Mill, Mill Met, Autoclave, Autoclave Met and Roaster Pumphouse Laboratories, Strip Circuit Area and Ore Fines Fee System.									
Hg				4.4965		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.		
		CY2006 Fac	cility Total:	616.7650		98.5500	CY2006 Co-product: 197,100.00 lbs/yr.		
		CY2007 Fac	cility Total:	708.6590		58.6300	CY2007 Co-product: 117,260.00 lbs/yr.		
		CY2008 Fac	cility Total:	166.0557		87.3300	CY2008 Co-product: 134,660.00 lbs/yr.		
		CY2009 Faci	ility Total:	369.7831		61.8730	CY2009 Co-product: 123,746.00 lbs/yr.		
				CY 2009 C	umulative T	otals	CY 2009 process emissions were solely derived using one consistent		
							FRM testing methodology (Method 29). Testing protocols were reviewed		
							prior to test commencement and all final report submittals were reviewed		

Note that the total value is lower than actual industrywide emissions due to a few thermal units which were unable to test in the reporting year and the absence of 2009 test data for Barrick Goldstrike's autoclaves under alkaline operating conditions.

In March 2010, Barrick Goldstrike tested under acidic vs. alkaline ore operating conditions. This was the first time a Method 29 test was conducted for autoclaves operating in alkaline mode. As Hg loading between the two conditions is similar, emissions were not expected to be affected. However, internal Barrick testing in 2009 showed a notable difference in emissions with alkaline conditions emitting more Hg to the atmosphere. Because the first official test was not conducted until 2010, there are no alkaline conditions emission factors for the autoclaves that apply to the 2009 reporting year. Barrick has voluntarily ceased operations under alkaline conditions until new Hg controls can be installed. In 2009, approximately 1/3 of autoclave operations at Barrick Goldstrike were under alkaline conditions.

Barrick's 2010 internal test consisted of (5) 2-run Method 29 tests. Seven of the 10 runs had isokinetic issues most likely due to the high moisture content of the exhaust gas. Assuming that the tests are representative of emissions, acidic ore emits at approximately 10-5 gr/dscf, while alkaline ore emits at approximately 10-3 gr/dscf. The possible difference in 2009 Hg emisions could have been as high as an additional 600 lbs. of Hg, assuming that the 2010 non-validated Barrick internal tests are representative. NyMACT analysis is underway to determine appropriate Hg controls under alkaline conditions for the autoclaves at Barrick Goldstrike and should begin public notice in August, 2010.

l:	369.7831		61.8730	CY2009 Co-product: 123,746.00 lbs/yr.
	CY 2009 C	Cumulative T	otals	CY 2009 process emissions were solely derived using one consistent
Proce	ess Emissions lbs/yr		Co-Product tpy	FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. In general, testing went much better in 2009 than in 2008 with far fewer testing irregularities or instances where test results were invalidated.
	1,336.46		90.18	Co-product: 180,360.00 lbs/yr
	CY 2008 C	Cumulative T	otals	CY 2008 process emissions were largely derived using one consistent
	ess Emissions lbs/yr		Co-Product tpy	FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. Some facilities had entire testing events, or in some cases just one or more runs of a test event, invalidated due to irregularities in testing protocol, poor sample handling procedures or laboratory errors. Yukon-Nevada Corporation - Jeritt Canyon Mine (formerly Queenstake Resources) did not test in 2008 due to the temporary NDEP ordered shutdown of the facility. Co-product: 205,860.00 lbs/yr
	CY 2007 C	umulative T	otals	CY 2007 process emissions were largely derived using one consistent
	ess Emissions lbs/yr 4,764.52		Co-Product tpy	FRM testing methodology (Method 29) with scattered M101A and OHM results used in lieu of M29 due to test schedule conflicts/logistics issues. Testing protocals were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy. Co-product: 195.360.00 lbs/yr
	,	umulative T	otals	CY 2006 process emissions and co-product values were accepted
Proce	ess Emissions		Co-Product	"as submitted" due to variability in testing methodology, emission
	lbs/yr		tpy	calculation methods and/or the lack of current FRM test results.
	4,468.15		133.26	Co-product: 266,520.00 lbs/yr