					Nevada Div	ision of Envi	ronmental Prote	ection			
					Bureaus of Air P						
		Calendar	Year 2018 A	ctual Production				Emissions from the Precious Metals Mining Industry			
								rmit To Construct (MOPTC) Data Submittals			
Pollutant ID	Production/Heat	Production Units	Emissions	Emissions	Hg Annual	Hours	Hg Co-Produc	t Notes			
	Rate	(eg. tons/yr)	Factor	Factor Units	Emissions (lbs/yr)	Operated	(tons/yr)				
Source: Nev	wmont Mining Cor	poration - Twin C					OPTC AP1041-				
System Desc	Source: Newmont Mining Corporation - Twin Creeks Mine: FIN A0003; Class 1 AQOP AP1041-0723.03; MOPTC AP1041-2218 System Description: Juniper Mill Electric Induction Furnace #1 (S2.008/TU4.001 - 1 of 2, only one operates at a time)										
Hg	Not Reported	tpy	0.000166	lbs/hr	0.0621	374	0.0000	Induction Furnace emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Juniper N	Aill Electric Induct	ion Furnace #	#2 (S2.008.1/T	ΓU4.002 - 1 of 2, only	one operate:	s at a time)	· · · · · · · · · · · · · · · · · · ·			
Hg	Not Reported	tpy	0.0168	lbs/hr	7.2257	430	0.0000	Induction Furnace emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Juniper N	/lill Carbon Kiln (S	\$2.002/TU4.0	03)				·			
Hg	5,167.61	tpy	0.000821	lbs/hr	6.1641	7,508	0.0000	Carbon Kiln emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Mercury	Retort A (Circuit #	#1: S2.006/T	U4.004)							
Hg	44.63	tpy	0.0000162	lbs/hr	0.0581	3,587	7.9600	Retort A emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Mercury	Retort B (Circuit #	#2: S2.007/T	U4.005)							
Hg	48.92	tpy	0.00000112	lbs/hr	0.0042	3,760	8.5300	Retort B emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Sage Mill	Autoclave #1 (S	2.009/TU4.01	2)							
Hg	2,002,075.00	tpy	0.0000993	lbs/hr	0.8076	8,133	0.0000	Autoclave #1 emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Sage Mill	Autoclave #2 (S:	2.010/TU4.01	3)							
Hg	1,974,855.00	tpy	0.0000169	lbs/hr	0.1383	8,182	0.0000	Autoclave #2 emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Electro-w		056/TU4.009	- six cells duct	ted to common stack)						
Hg	Not Reported	MMGals/yr	0.000107	lbs/hr	0.9297	8,689	0.0000	Electro-winning Cells emissions factor derived from May 2018 M29 stack test.			
System Desc					S2.053 - S2.055/TU4.						
Hg	Not Reported	MMGals/yr	0.00209	lbs/hr	18.3084	8,760	0.0100	Preg./Barren Tanks emissions factor derived from May 2018 M29 stack test.			
System Desc				ition Tanks (S2	2.057 & S2.058/TU4.0	010 & TU4.0					
Hg	Not Reported	MMGals/yr	0.003363	lbs/hr	28.2492	8,400	0.0000	Preg./Barren Tanks emissions factor derived from May 2018 M29 stack test.			
System Desc	cription: Mercury	Co-Product									
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.			
	cription: Laborato	ry Sample Prep.,	Fire Assay, V	Vet Lab, Slurry		mentation, M		clave Rooms (S2.040 - S2.044/DM3.001 - DM3.042)			
Hg					3.9781		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.			
				Facility Total:	434.3715		8.9100	CY2006 Co-product: 17,820 lbs/yr			
				Facility Total:	929.9303		13.2160	CY2007 Co-product: 26,432 lbs/yr.			
		l		Facility Total:	1,679.1864	l	8.8000	CY2008 Co-product: 17,600 lbs/yr.			
		ļ		Facility Total:	425.7559		5.9080	CY2009 Co-product: 11,816 lbs/yr.			
				Facility Total:	178.8392		5.4670	CY2010 Co-product: 10,934 lbs/yr.			
		l		Facility Total:	452.1731	l	3.9940	CY2011 Co-product: 7,988 lbs/yr.			
		ļ		Facility Total:	695.2002	l	4.6530	CY2012 Co-product: 9,308 lbs/yr.			
		ļ		Facility Total:	148.5169		7.7370	CY2013 Co-product: 15,474 lbs/yr.			
		ļ		Facility Total:	68.4077		10.0105	CY2014 Co-product: 20,021 lbs/yr.			
		ļ		Facility Total:	20.2603	l	5.2900	CY2015 Co-product: 10,580 lbs/yr.			
		ļ		Facility Total:	19.9695	l	10.2200	CY2016 Co-product: 20,439 lbs/yr.			
				Facility Total:	21.2494		11.0290	CY2017 Co-Product 22,058 lbs/yr.			
			CY2018 F	acility Total:	65.9254		16.5000	CY2018 Co-product: 33,000 lbs/yr collected.			

					1 AQOP AP1041-342							
		aster Process (S			TU4.002A - West Roa			['] -				
Hg	Not Reported	tpy	0.001304	lbs/hr	9.4957	7,282	0.0000	Roaster emissions factor derived from August 2018 M29 stack test.				
	System Description: East Roaster Process (S2.032 & S2.034/TU4.003 & TU4.003A - East Roaster & East Quench Tank)											
Hg	Not Reported	tpy	0.00152	lbs/hr	11.4654	7,543	0.0000	Roaster emissions factor derived from September 2018 M29 stack test.				
System Des	cription: Ore Drye	er (S2.022/TU4.0										
Hg	Not Reported	tpy	0.001448	lbs/hr	8.0914	5,588	0.0000	Ore Dryer emissions factor derived from August 2018 M29 stack test.				
System Des	cription: Mercury	Retort (S2.039.1	/TU4.008)									
Hg	Not Reported	tpy	0.0000866	lbs/hr	0.1268	1,464	10.2800	2018 Retort test deemed invalid, emissions factor derived from 2017 M29 test.				
System Des	scription: Refining	Process Inductio										
Hg	Not Reported	tpy	0.001612	lbs/hr	0.3160	196	0.0000	Furnace emissions factor derived from August 2018 M29 stack test.				
System Des	cription: Electro-w	vinning Cells & P		Strip Solution	n Tanks (S2.038.1 - S	2.038.4/TU	4.004 - TU4.00					
Hg	Not Reported	gal/yr	0.010734	lbs/hr	78.5836	7,321	0.0000	EW Cells and P/B Tanks emissions factor derived from 2018 M29 stack test.				
System Des	cription: Mercury	Co-Product										
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.				
System Des	cription: Laborato	ry Units Including	g Five Large O	re Drying Ov	ens (S2.042.1 - S2.04	2.3/DM3.001	- DM3.017)					
Hg					4.2726		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.				
				acility Total:	293.9245		2.9600	CY2006 Co-product: 5,920 lbs/yr.				
				acility Total:			1.0200	CY2007 Co-product: 2,040 lbs/yr.				
			CY2008 F	acility Total:	219.9723		0.7100	CY2008 Co-product: 1,420 lbs/yr.				
				acility Total:	138.9704		2.1000	CY2009 Co-product: 4,200 lbs/yr.				
				acility Total:	34.9527		11.0380	CY2010 Co-product: 22,076 lbs/yr.				
			CY2011 F	acility Total:	69.8714		0.0000	CY2011 Co-product: 0.00 lbs/yr.				
				acility Total:	29.8595		1.5200	CY2012 Co-product: 3,040 lbs/yr.				
				acility Total:	26.6023		2.5600	CY2013 Co-product: 5,120 lbs/yr.				
			CY2014 F	acility Total:	13.4934		3.9820	CY2014 Co-product: 7,964 lbs/yr.				
			CY2015 F	acility Total:	97.0995		5.3400	CY2015 Co-product: 10,675 lbs/yr.				
			CY2016 F	acility Total:	134.1763		4.4500	CY2016 Co-product: 8,900 lbs/yr.				
				acility Total:	148.8118		5.0200	CY2017 Co-product: 10,035 lbs/yr.				
			CY2018 Fa	acility Total:	112.3515		10.2800	CY2018 Co-product: 20,557 lbs/yr.				

P				
Source: Newmont Mining Corporation - Gold (041-2219	
System Description: Mill 6 Static Separator Do				
Hg 3,383,218.10 tpy			0.0000	Static Seperator emissions factor derived from 2018 M29 stack test.
System Description: CFB North and South Or				
Hg 3,260,915.50 tpy			0.0000	Ore Preheater's emissions factor derived from 2018 M29 stack test.
System Description: CFB North and South Or				
Hg 3,260,915.20 tpy			6.6100	Ore Roaster's factor derived from 2018 M29 stack test.
System Description: ROTP North Calcine Que	ench Circuit (S2.158 & S2.159/TU4.006	- TU4.009)		
Hg 1,675,068.00 tpy			0.0000	North Quench Circuit emissions factor derived from 2018 M29 stack test.
System Description: ROTP South Calcine Que	ench Circuit (S2.160 & S2.161/TU4.010) - TU4.013)		
Hg 1,582,407.10 tpy			0.0000	South Quench Circuit emissions factor derived from 2018 M29 stack test.
System Description: AARL Carbon Stripping (Circuit Pregnant Tanks (S2.228 & S2.22	29/TU4.014 & TU4.015)		
Hg 16,057.00 tpy	0.000216 lbs/hr 1.7	976 8,322	0.0000	M29 test deemed invalid, failure to check for cyclonic flow, used value as estimate.
System Description: Refinery Barren Tank & E	Electro-winning Cells (S2.230/TU4.016	& TU4.017)		
Hg 16,057.00 tpy			0.0000	Barren Tank/EW Cells emissions factor derived from 2018 M29 stack test.
System Description: Electric Refinery Inductio	n Furnaces (S2.047 - S2.049/TU4.024	- TU4.026)		
Hg 85.20 tpy	0.00428 lbs/hr 1.9	838 464	0.0000	Induction Furnace emissions factor derived from 2018 M29 stack test.
System Description: Carbon Kiln #1 (Zadra Bu	uilding) Scrubber Stack (S2.056/TU4.02	27)		
Hg 8,116.00 tpy	0.00053 lbs/hr 4.3		0.0375	Kiln Scrubber Stack emissions factor derived from 2018 M29 stack test.
System Description: Carbon Kiln #2 (AARL Bu	uilding) Scrubber Stack (S2.058/TU4.02	28)		
Hg Not Reported tpy	0.00515 lbs/hr 40.9	9492 7,951	0.0610	Kiln Scrubber Stack emissions factor derived from 2018 M29 stack test.
System Description: Refinery Mercury Retort	Circuit #1 (S2.225/TU4.029)	· · · · · ·		
Hg 24.00 tpy	9.07E-08 lbs/hr 0.0	001 1,343	1.2400	Retort Circuit #1 emissions factor derived from 2018 M29 stack test.
System Description: Refinery Mercury Retort		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Hg 25.10 tpy		002 1,389	1.1300	Retort Circuit #2 emissions factor derived from 2018 M29 stack test.
System Description: Refinery Mercury Retort	· · · · · · · · · · · · · · · · · · ·	.,000		Total Change To The State Control Cont
Hg 15.80 tpy	1.19E-07 lbs/hr 0.0	001 861	0.6900	Retort Circuit #3 emissions factor derived from 2018 M29 stack test.
System Description: Mercury Co-Product	1.192-07 103/111 0.0	001 001	0.0300	Thetort Officult #3 chilissions factor derived from 2010 Mi29 stack test.
Hq Hq		000	0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Description: Assay Laboratory, Met La			0.0000	racility-wide mercury co-product collected, no breakout by system provided.
Hg Hg			0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
пу				CY2006 Co-product: 5,440 lbs/yr.
	CY2006 Facility Total: 510.			CY2007 Co-product: 12,320 lbs/yr.
				CY2008 Co-product: 12,320 lbs/yr.
	CY2008 Facility Total: 422. CY2009 Facility Total: 280.			CY2009 Co-product: 13,540 lbs/yr.
	CY2009 Facility Total: 280. CY2010 Facility Total: 397.			CY2010 Co-product: 10,780 lbs/yr.
				CY2011 Co-product: 7.700 lbs/yr. CY2012 Co-product: 15,220 lbs/yr.
				CY2013 Co-product: 15,220 lbs/yr.
				CY2014 Co-product: 12,560 lbs/yr.
				CY2015 Co-product: 10,540 lbs/yr.
				CY2016 Co-product: 12,500 lbs/yr.
				CY2017 Co-product: 22,020 lbs/yr.
	CY2018 Facility Total: 245.	1659	9.7685	CY2018 Co-product: 19,540 lbs/yr.

2 10			",								
				Mine: FIN A	0175; Class 2 AQOP /	AP1041-076	6.02; OPTC A	P1041-2989; MOPTC AP1041-2253			
_	cription: Refinery										
Hg	94.49	tpy	0.000131	lbs/hr	0.1073	819	0.0000	Furnace #1 emissions factor derived from March 2018 M29 stack test.			
System Description: Refinery Furnace #2 (S2.045/TU4.002)											
Hg	79.77	tpy	0.00016	lbs/hr	0.1158	724	0.0000	Furnace #2 emissions factor derived from March 2018 M29 stack test.			
System Desc	cription: Retort A	(S2.047/TU4.00	3)								
Hg	35.00	tpy	0.00000729	lbs/hr	0.0178	2,436	0.0030	Retort A emissions factor derived from March 2018 M29 stack test.			
System Desc	cription: Retort C	(S2.052/TU4.00	5)								
Hg	31.00	tpy	0.00000539	lbs/hr	0.0082	1,516	0.0070	Retort C emissions factor derived from March 2018 M29 stack test.			
System Desc	cription: Mercury	Co-Product									
Hg					0.0000		0.0000	Facility-wide mercury co-product reported under Retorts A & C.			
System Desc	cription: Assay La	aboratory (S2.04	4 & S2.045/DM3	3.001 - DM3.	.012)						
Hg				lbs/hr	2.3159		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.			
		•	CY2006 F	acility Total:	17.1801		0.0000	CY2006 Co-product: 0.00 lbs/yr.			
			CY2007 Facility Total: 4.2457				0.0000	CY2007 Co-product: 0.00 lbs/yr.			
			CY2008 Facility Total: 41.3420				0.0000	CY2008 Co-product: 0.00 lbs/yr.			
			CY2009 Fa	acility Total:	6.4395	1	0.0000	CY2009 Co-product: 0.00 lbs/yr.			
			CY2010 Fa	acility Total:	14.2333		0.0000	CY2010 Co-product: 0.00 lbs/yr.			
			CY2011 F	acility Total:	32.0815		0.0099	CY2011 Co-product: 19.87 lbs/yr.			
			CY2012 Fa	acility Total:	21.8322	1	0.0100	CY2012 Co-product: 10.40 lbs/yr.			
			CY2013 Fa	acility Total:	16.3548		0.0059	CY2013 Co-product: 11.90 lbs/yr.			
			CY2014 Fa	acility Total:	2.6214	1	0.0030	CY2014 Co-product: 5.72 lbs/yr.			
			CY2015 F:	acility Total:	3.0071	1	0.0020	CY2015 Co-product: 3.96 lbs/yr.			
			CY2016 F:	acility Total:	6.5749	1	0.0020	CY2016 Co-product: 3.24 lbs/yr.			
				acility Total:	16.1134	1	0.0000	CY2017 Co-product: 0.18 lbs/yr.			
			CY2018 Fac	cility Total:	2.5650		0.0100	CY2018 Co-product: 20.0 lbs/yr.			

Source: KG Mining (Bald Mountain), Inc - Hur	tington Valley/Mooney Basin	/South Ops.: FIN 03	93; Class 2 /	AQOP AP1041	l-1362.02; Class 2 AQOP AP1041-3861; MOPTC AP1041-2246						
System Description: Assay Laboratory (DM3.001 - DM3.018)											
Hg		2.3239		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Review.						
	CY2006 Facility Total:	204.3025		2.9400	CY2006 Co-product: 5,880 lbs/yr.						
	CY2007 Facility Total:	57.4138		2.2750	CY2007 Co-product: 4,550 lbs/yr.						
	CY2008 Facility Total:	278.3220		2.6000	CY2008 Co-product: 5,200 lbs/yr.						
	CY2009 Facility Total:	5.8995		1.5600	CY2009 Co-product: 3,120 lbs/yr.						
	CY2010 Facility Total:	7.8188		1.4300	CY2010 Co-product: 2,860 lbs/yr.						
	CY2011 Facility Total:	3.2198		1.6100	CY2011 Co-product: 3,220 lbs/yr.						
	CY2012 Facility Total:	3.1464		0.0000	CY2012 Co-product: 0.00 lbs/yr.						
	CY2013 Facility Total:	3.6439		0.0000	CY2013 Co-product: 0.00 lbs/yr.						
	CY2014 Facility Total:	3.6439		0.0000	CY2014 Co-product: 0.00 lbs/yr.						
	CY2015 Facility Total:	3.1239		0.0000	CY2015 Co-product: 0.00 lbs/yr.						
	CY2016 Facility Total:	3.1239		0.0000	CY2016 Co-product: 0.00 lbs/yr.						
	CY2017 Facility Total:	2.3239		0.0000	CY2017 Co-product: 0.00 lbs/yr.						
	CY2018 Facility Total:	2.3239		0.0000	CY2018 Co-product: 0.00 lbs/yr.						

Source: Par	whide Mining II C	Denton Pawh	ide Mine (forme	rly Konnocott	Pawhide Mining Con	nnany): EIN	0406: Class 1	AQOP AP1041-2892; OPTC AP1041-2975; MOPTC AP1041-2245				
	scription: Carbon F			ny Rennecon	Trawnide Mining Cor	iipaily). Till	0400, Class I	AQUE AF 1041-2092, OF 10 AF 1041-2973, MOFTC AF 1041-2243				
Hg	Not Reported	tpy	0.0000112	lbs/hr	0.0707	6,310	0.0000	Carbon Kiln emissions factor derived from December 2018 M29 stack test.				
System Des	System Description: Electro-winning Circuit (IA3.007)											
Hg	Not Reported	gals/yr	0.0000113	lbs/hr	0.0448	3,964	0.0000	Electro-winning Cells emissions factor derived from December 2018 M29 stack test.				
System Des	cription: Refinery	Induction Furna	ce (S2.004)									
Hg	Not Reported	tpy	0.000243	lbs/hr	0.1544	635	0.0000	Refinery Furnace emissions factor derived from December 2018 M29 stack test.				
System Des	cription: Mercury F	Retort (S2.002)										
Hg	Not Reported	tpy	0.00000052	lbs/hr	0.0025	4,855	0.0000	Retort emissions factor derived from December 2018 M29 stack test.				
System Des	cription: Mercury	Co-Product										
Hg					0.0000		0.0013	Facility-wide mercury co-product collected, 99% retort derived.				
	cription: Fire Assa	ay Laboratory (D	M3.001 - DM3.0	008)								
Hg					0.0143		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.				
				acility Total:	351.5928		0.0621	CY2006 Co-product: 124.20 lbs/yr.				
			CY2007 F	acility Total:	39.5645		0.0276	CY2007 Co-product: 55.20 lbs/yr.				
			CY2008 F	acility Total:	13.0908		0.0262	CY2008 Co-product: 52.40 lbs/yr.				
			CY2009 F	acility Total:	12.0029		0.0258	CY2009 Co-product: 51.60 lbs/yr.				
			CY2010 F	acility Total:	37.6433		0.0079	CY2010 Co-product: 15.80 lbs/yr.				
			CY2011 F	acility Total:	78.5131		0.0230	CY2011 Co-product: 46.00 lbs/yr.				
			CY2012 F	acility Total:	7.1176		0.0249	CY2012 Co-product: 49.80 lbs/yr.				
			CY2013 F	acility Total:	0.0743		0.1270	CY2013 Co-product: 254 lbs/yr.				
			CY2014 F	acility Total:	0.1924		0.0193	CY2014 Co-product: 38.60 lbs/yr.				
			CY2015 F	acility Total:	0.3959		0.0102	CY2015 Co-product: 20.40 lbs/yr.				
				acility Total:	0.5412		0.0005	CY2016 Co-product: 1.04 lbs/yr.				
				acility Total:	0.3312		0.0006	CY2017 Co-product: 1.20 lbs/yr.				
			CY2018 Fa	cility Total:	0.2867		0.0013	CY2018 Co-product: 2.6 lbs/yr.				

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	croft Resources & scription: Mercury			ewis iviine: Fii	N 0390; Class 2 AQC	DP AP 1041-0	334.02; OPTC	AP 104 1-2974; OP 1C AP 104 1-3209; OP 1C AP 104 1-3344; MOP 1C AP 104 1-2255
Hq	Not Reported	tpy	01) 0	lbs/hr	0.0000	Ι 0	0.0000	Facility did not operate in 2018.
	scription: Smelting		-	IDS/III	0.0000		0.0000	Facility did not operate in 2016.
Hq	Not Reported	tpy	0	lbs/hr	0.0000	Ι ο	0.0000	Facility did not operate in 2018.
	scription: Mercury			103/111	0.0000	1 0	0.0000	The activity and not operate in 2010.
Ha	Not Reported		03) I 0	lbs/hr	0.0000	T 0	0.0000	Facility did not operate in 2018.
	scription: Mercury		_	103/111	0.0000		0.0000	i doint) did not operate in 2010.
Ha	0.00	tpy	l 0	lbs/hr	0.0000	Ιο	0.0000	System not yet constructed.
	scription: Mercury		_	150/111	0.0000		0.0000	O SOLOM HOL SOLOM GOLOGI.
Hq	0.00	tpv	l 0	lbs/hr	0.0000	Ι ο	0.0000	System not yet constructed.
	scription: Mercury		06)		313333		212222	- - - - - - - - - -
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed.
System Des	scription: Smelting	Furnace #2 (TU	4.007)					
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed.
System Des	cription: Smelting	Furnace #3 (TU	4.008)			•		
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	System not yet constructed.
System Des	scription: Mercury	Co-Product						
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Des	cription: Assay La	aboratory (DM3.0	01 - DM3.057	')				
Hg					4.4797		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
				Facility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.
				Facility Total:	0.0000		0.0000	CY2007 Co-product: 0.00 lbs/yr.
				Facility Total:	0.0000		0.0000	CY2008 Co-product: 0.00 lbs/yr.
				Facility Total:	4.5299		0.8000	CY2009 Co-product: 1,600 lbs/yr.
				Facility Total:	4.5219		4.2000	CY2010 Co-product: 8,400 lbs/yr.
				Facility Total:	4.5242		23.0700	CY2011 Co-product: 46,147 lbs/yr.
				Facility Total:	4.4784		34.0200	CY2012 Co-product: 68,047 lbs/yr.
				Facility Total:	4.4959		27.6700	CY2013 Co-product: 53,340 lbs/yr.
				Facility Total:	5.8421		56.9100	CY2014 Co-product: 113,820 lbs/yr.
				Facility Total:	5.6891		35.7000	CY2015 Co-product: 71,400 lbs/yr.
				Facility Total:	6.6141		7.3750	CY2016 Co-product: 14,750 lbs/yr.
				Facility Total:	4.7013		0.7500	CY2017 Co-product: 1,500 lbs/yr.
			CY2018 F	acility Total:	4.4797		0.0000	CY2018 Co-product: 0.00 lbs/yr.

		<u>, </u>			58; OPTC AP1041-28				
		, -			winning Circuit (S2.00)				
Hg	735.50		0.00000557	lbs/hr	0.0334	6,000	0.0000	Carbon Kiln comb. circuit emissions factor derived from Sept. 2018 M29 stack test.	
System Description: Mercury Retorts, Solution Tanks & Electro-winning Circuit (S2.002 - S2.004, S2.006 & S2.007/TU4.002 - TU4.006)									
Hg	14.55		0.00000504	lbs/hr	0.0048	944	0.0000	Retorts combined circuit emissions factor derived from Sept. 2018 M29 stack test.	
		<u>ır</u> nace, Solution Ta				S2.008/TU		3, TU4.006 & TU4.007)	
HG	0.10	tpy	0.000022	lbs/hr	0.0000	6	0.0000	Furnace combined circuit emissions factor derived from Sept. 2018 M29 stack test.	
System Des	cription: Mercury	Co-Product							
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.	
System Des	cription: Assay L	aboratory (S2.002	- S2.004 & S2	.008/DM3.00	02 - DM3.011)				
Hg					0.0076		0.0000	Potential to emit (PTE) of 0.0076 lbs/yr, not actual - see DM Technical Review.	
				acility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.	
				acility Total:	0.0000		0.0000	CY2007 Co-product: 0.00 lbs/yr.	
			CY2008 F	acility Total:	0.2838		0.0000	CY2008 Co-product: 0.00 lbs/yr.	
				acility Total:	0.2838		0.0000	CY2009 Co-product: 0.00 lbs/yr.	
			CY2010 F	acility Total:	0.0222		0.0000	CY2010 Co-product: 0.00 lbs/yr.	
			CY2011 F	acility Total:	0.0022		0.0000	CY2011 Co-product: 0.00 lbs/yr.	
			CY2012 F	acility Total:	3.7066		0.0000	CY2012 Co-product: 0.00 lbs/yr.	
			CY2013 F	acility Total:	0.0276		0.0000	CY2013 Co-product: 0.00 lbs/yr.	
			CY2014 F	acility Total:	0.0076		0.0000	CY2014 Co-product: 0.00 lbs/yr.	
I			CY2015 F	acility Total:	0.0000		0.0000	CY2015 Co-product: 0.00 lbs/yr.	
			CY2016 F	acility Total:	0.0076		0.0000	CY2016 Co-product: 0.00 lbs/yr.	
I			CY2017 F	acility Total:	0.0223		0.0000	CY2017 Co-product: 0.00 lbs/yr.	
			CY2018 Fa	cility Total:	0.0458		0.0000	CY2018 Co-product: 0.00 lbs/yr.	

Source: Coo	our D'Alone Minine	Corporation Co	oour Pochasta	r Mino: EIN (0412: Class 2 AOOD	ND1044 006	3 OA: MODTO	AP1044 2242			
	ource: Coeur D'Alene Mining Corporation - Coeur Rochester Mine: FIN 0412; Class 2 AQOP AP1044-0063.04; MOPTC AP1044-2242 ystem Description: Refinery Furnace (S2.003/TU4.001)										
Hg	240.00	tpy	0.000812	lbs/hr	0.7470	0.0000	Refinery Furnace emissions factor derived from February 2018 M29 stack test.				
System Desc	cription: Mercury	Retorts (S2.004 &	\$ S2.005/TU4	.002 & TU4.0	03)						
Hg	434.00	tpy	0.0000139	lbs/hr	0.0981	7,056	0.0000	Retort emissions factor derived from February 2018 M29 stack test.			
System Desc	cription: Mercury	Co-Product									
Hg					0.0000		11.8000	Facility-wide mercury co-product collected, all from furnace operations.			
System Desc	cription: Assay La	aboratory (S2.016	- S2.019/DM	3.001 - DM3.0)15)						
Hg					1.8805		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.			
			CY2006 F	acility Total:	2.8872		16.1000	CY2006 Co-product: 32,200 lbs/yr.			
			CY2007 F	acility Total:	137.0958		15.4000	CY2007 Co-product: 30,800 lbs/yr.			
			CY2008 F	acility Total:	9.9144		15.6000	CY2008 Co-product: 31,200 lbs/yr.			
			CY2009 F	acility Total:	4.4097		10.7000	CY2009 Co-product: 21,400 lbs/yr.			
			CY2010 F	acility Total:	2.6426		12.3000	CY2010 Co-product: 24,600 lbs/yr.			
			CY2011 F	acility Total:	3.3523		11.2000	CY2011 Co-product: 22,400 lbs/yr.			
			CY2012 F	acility Total:	3.2552		20.4000	CY2012 Co-product: 40,800 lbs/yr.			
			CY2013 F	acility Total:	2.6378		14.5000	CY2013 Co-product: 29,000 lbs/yr.			
			CY2014 F	acility Total:	2.1938		13.2000	CY2014 Co-product: 26,400 lbs/yr.			
			CY2015 F	acility Total:	4.2967		10.4000	CY2015 Co-product: 20,800 lbs/yr.			
			CY2016 F	acility Total:	3.2330		7.9000	CY2016 Co-product: 15,800 lbs/yr.			
			CY2017 F	acility Total:	2.3819		9.7000	CY2017 Co-product: 19,480 lbs/yr.			
			CY2018 Fa	acility Total:	2.7256		11.8000	CY2018 Co-product: 23,600 lbs/yr.			

Source: Newmont Mining Corporation - Lone	ource: Newmont Mining Corporation - Lone Tree Mine: FIN 0385; Class 2 AQOP AP1041-3575; MOPTC AP1041-2251												
	System Description: Sample Room, Fire Assay Room, Wet Laboratory, LECO Laboratory, Met Laboratory (S2.014 - S2.019/DM3.001 - DM3.034)												
Hg		1.6849		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 Facility Total:	7.2136		0.0000	CY2009 Co-product: 0.00 lbs/yr.								
	CY2010 Facility Total:	3.0212		0.0000	CY2010 Co-product: 0.00 lbs/yr.								
	CY2011 Facility Total:	1.8788		0.0000	CY2011 Co-product: 0.00 lbs/yr.								
	CY2012 Facility Total:	1.8788		0.0000	CY2012 Co-product: 0.00 lbs/yr.								
	CY2013 Facility Total:	1.8788		0.0000	CY2013 Co-product: 0.00 lbs/yr.								
	CY2014 Facility Total:	1.8788		0.0000	CY2014 Co-product: 0.00 lbs/yr.								
	CY2015 Facility Total:	1.8788		0.0000	CY2015 Co-product: 0.00 lbs/yr.								
	CY2016 Facility Total:	1.8788		0.0000	CY2016 Co-product: 0.00 lbs/yr.								
	CY2017 Facility Total:	1.8788		0.0000	CY2017 Co-product: 0.00 lbs/yr.								
	CY2018 Facility Total:	1.6849		0.0000	CY2018 Co-product: 0.00 lbs/yr.								

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					; Class 1 AQOP AP10	J41-2141; M	OPTC AP104	1-2220
	cription: Refinery				2.2454	000	0.000	TE
Hg	Not Reported	tpy	0.0000397	lbs/hr	0.0151	380	0.0000	Furnace #1 ducted in-line with Retorts, EF derived from 2018 M29 stack test.
	cription: Refinery							
Hg	Not Reported	tpy	0.000125	lbs/hr	0.0113	91	0.0000	Furnace #2 ducted in-line with Retorts, EF derived from 2018 M29 stack test.
	cription: Electric							
Hg	743.81	tpy	0.0000156		0.0238	1,528	0.2673	Carbon Kiln #1 emissions factor derived from 2018 M29 stack test.
	cription: Electric							
Hg	660.57	tpy	0.0000289	lbs/hr	0.0387	1,338	0.2673	Carbon Kiln #2 emissions factor derived from 2018 M29 stack test.
								2.063/TU4.001, TU4.008 & TU4.009)
Hg	20,134.89	1000gals/yr	0.000113	lbs/hr	0.8200	7,257	0.0000	East EW Circuit emissions factor derived from avg. of 2018 M29 stack tests.
System Desc								S2.063/TU4.002, TU4.008 & TU4.009)
Hg	19,071.47	1000gals/yr	0.0000453	lbs/hr	0.3291	7,265	0.0000	West EW Circuit emissions factor derived from 2018 M29 stack test.
System Desc	cription: Mercury	Retort A (S2.004	/TU4.010)					
Hg	18.21	tpy	0.000117	lbs/hr	0.1778	1,520	0.0550	Retort A emissions factor derived from 2018 M29 stack test.
System Desc	cription: Mercury	Retort B (S2.005	5/TU4.011)					
Hg	16.41	tpy	0.0000198	lbs/hr	0.0285	1,440	0.0550	Retort B emissions factor derived from 2018 M29 stack test.
System Desc	cription: Mercury	Retort C (S2.006	S/TU4.012)					
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort C did not operate in 2018, not yet constructed.
System Desc	cription: Mercury	Co-Product						
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.
System Desc	cription: Assay La	aboratory, Met La	boratory, Strip	Circuit Area	(Mill Building), Refiner	y Gold Sludg	ge Drying Over	n, Fire Assay Fusion Furnaces (S2.018a-g/DM3.001 - DM3.020)
Hg					1.8841		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 lbs/yr.
			CY2007	Facility Total:	208.0466		0.3200	CY2007 Co-product: 640 lbs/yr.
			CY2008	Facility Total:	75.8638	1	0.0000	CY2008 Co-product: 0.00 lbs/yr.
			CY2009	Facility Total:	1.3905	İ	0.0170	CY2009 Co-product: 34 lbs/yr.
			CY2010	Facility Total:	5.1862		0.0000	CY2010 Co-product: 0.00 lbs/yr.
			CY2011	Facility Total:	5.1815	i	0.7200	CY2011 Co-product: 1,441 lbs/yr.
			CY2012	Facility Total:	4.2156	İ	1.2100	CY2012 Co-product: 2,412 lbs/yr.
				Facility Total:	15.7637		2.2740	CY2013 Co-product: 4,458 lbs/yr.
				Facility Total:	2.2159	i	0.4900	CY2014 Co-product: 980 lbs/yr.
				Facility Total:	4.6010		1.1700	CY2015 Co-product: 2,340 lbs/yr.
				Facility Total:	6.0125		0.2600	CY2016 Co-product: 524 lbs/yr.
				Facility Total:	3.8086		0.0000	CY2017 Co-product: 0.00 lbs/yr.
				acility Total:	3.3285		0.6445	CY2018 Co-product: 1,289 lbs/yr.
				,				

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	Source: Florida Canyon Mining, Inc Florida Canyon Mine: FIN 0386; Class 2 AQOP AP1041-0106.03; MOPTC AP1041-2256 System Description: Summit Valley Mercury Retort A (S2.005/TU4.004)											
Hg Not Reported tpy 0.0000025 lbs/hr 0.0020 810 0.0000 Retort A emissions factor derived from 2018 M29 stack tests.												
System Description: Co				0.0020	010	0.0000	THE COLL A CHIISSIONS LACTOR GETVER HOTH 2010 WIZE STACK 16315.					
Hg Not Rep		2.06E-07	lbs/hr	0.0001	362	0.0000	Retort B emissions factor derived from 2018 M29 stack tests.					
System Description: El	ectro-winning Cell A (IA	1.039/DM3.019)		•							
Hg	tpy		lbs/hr	0.0000		0.0000	Electro-winning Cell A deferred to DM status for 2018, no testing conducted.					
System Description: El	ectro-winning Cell B (IA	1.039/DM3.020)									
Hg	tpy		lbs/hr	0.0000		0.0000	Electro-winning Cell B deferred to DM status for 2018, no testing conducted.					
System Description: Ca	arbon Regeneration Kili	n (S2.004/TU4.0	008)									
Hg Not Rep		0.000434	lbs/hr	0.8538	1,967	0.0000	Carbon Kiln emissions factor derived from 2018 M29 stack test.					
System Description: Description: Description:	ore Furnace (S2.003/DI	M3.018)										
Hg	tpy		lbs/hr	0.0000		0.0000	Dore Furnace deferred to DM status for 2018, no testing conducted.					
System Description: Pr	egnant Tank (IA1.039/I	DM3.016)										
Hg	hrs/yr		lbs/hr	0.0000		0.0000	Pregnant Tank moved to De Minimis Designation 12/17/09.					
System Description: Ba		13.017)										
Hg	hrs/yr		lbs/hr	0.0000		0.0000	Barren Tank moved to De Minimis Designation 12/17/09.					
System Description: M	ercury Co-Product											
Hg				0.0000		0.0800	Facility-wide mercury co-product collected, no breakout by system provided.					
System Description: As	ssay Laboratory, Electro	p-winning Cells A	A & B, Pregr		nd Dore Fur		DM3.001 - DM3.020)					
Hg				2.9861		0.0000	Calculated PTE = 2.9861 lbs/yr. EW Cells and Dore Furnace reported separately.					
			acility Total:	440.7382		0.2264	CY2006 Co-product: 452.80 lbs/yr.					
			acility Total:	19.0000		0.0072	CY2007 Co-product: 14.40 lbs/yr.					
			acility Total:	162.3117		0.2875	CY2008 Co-product: 575 lbs/yr.					
			acility Total:	49.6118		0.8120	CY2009 Co-product: 1,624 lbs/yr.					
			acility Total:	111.8133		0.3090	CY2010 Co-product: 618 lbs/yr.					
			acility Total:	51.7290		1.2700	CY2011 Co-product: 2,538 lbs/yr. (1,829.00 "liquid"; 709.00 sludge)					
			acility Total:	8.2449		0.6300	CY2012 Co-product: 1,252 lbs/yr. (892.00 "liquid"; 360.00 sludge)					
			acility Total:	4.2320		1.2150	CY2013 Co-product: 1,450 lbs/yr. (sludge)					
			acility Total:	4.1346	1	0.1250	CY2014 Co-product: 250 lbs/yr. (sludge)					
			acility Total:	33.4578	1	0.8960	CY2015 Co-product: 1,792 lbs/yr. (sludge)					
			acility Total:	55.9107	1	0.1200	CY2016 Co-product: 244 lbs/yr. (sludge)					
			acility Total:	3.7025	1	0.1800	CY2017 Co-product: 352 lbs/yr. (sludge)					
		CY2018 Fac	cility Total:	3.8420		0.0800	CY2018 Co-product: 162 lbs/yr. (sludge)					

Source: Round Mountain Gold Corporation - Smoky Valley/Gold			AQOP AP104	11-0444.02; OPTC AP1041-2806: MOPTC AP1041-2250
System Description: Round Mountain (Smoky Valley) Carbon Re				
3	lbs/hr 0.0405	7,495	0.0000	Carbon Kiln emissions factor derived from April 2018 M29 stack test.
System Description: Round Mountain (Smoky Valley) Electric Inc				
	lbs/hr 0.5982	367	0.0000	Furnace emissions factor derived from April 2018 M29 stack test.
System Description: Gold Hill Carbon Reactivation Kiln (S2.157/				
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lbs/hr 0.0647	1,617	0.1960	Carbon Kiln emissions factor derived from average of April 2018 M29 stack tests.
System Description: Gold Hill Carbon Stripping Circuit - Electro-v	vinning Circuit & Pregnant/Barre	n Strip Solut	ionTanks (S2.	
	lbs/hr 1.6371	8,571	0.0000	Carbon Strip Circuit emissions factor derived from April 2018 M29 stack tests.
System Description: Gold Hill Mercury Retort (S2.161/TU4.010)				
	lbs/hr 0.0001	3,206	1.9090	Retort emissions factor derived from average of 2018 M29 stack tests.
System Description: Gold Hill Smelting Furnace (S2.162/TU4.01				
3	lbs/hr 0.0127	3,206	0.0000	Furnace emissions factor derived from average of 2018 M29 stack tests.
System Description: Smoky Valley ADR Carbon Stripping Circuit	 t - Electro-winning Circuit, Preg 	nant (1) & Ba	arren (2) Strip	SolutionTanks (S2.142 & S2.143/TU4.002 - TU4.004 & TU4.012)
	lbs/hr 4.6142	8,657	0.0000	Carbon Strip Circuit emissions factor derived from April 2018 M29 stack tests.
System Description: Mercury Co-Product				
Hg	0.0000		0.0000	See co-product collected breakout by system.
System Description: RMG Refinery Electro-winning Vent & Oven		.143/DM3.00		
Hg	1.7440		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
CY2006 Faci	ility Total: 0.0000		0.0085	CY2006 Co-product: 17 lbs/yr.
CY2007 Faci	,		0.0000	CY2007 Co-product: 0.00 lbs/yr.
CY2008 Faci			0.0000	CY2008 Co-product: 0.00 lbs/yr.
CY2009 Faci	,		0.0000	CY2009 Co-product: 0.00 lbs/yr.
CY2010 Faci			0.0000	CY2010 Co-product: 0.00 lbs/yr.
CY2011 Faci			0.0000	CY2011 Co-product: 0.00 lbs/yr.
CY2012 Faci			0.0000	CY2012 Co-product: 0.00 lbs/yr.
CY2013 Faci			0.3150	CY2013 Co-product: 629.90 lbs/yr.
CY2014 Faci]	0.3450	CY2014 Co-product: 690 lbs/yr.
CY2015 Faci]	0.2940	CY2015 Co-product: 588 lbs/yr.
CY2016 Faci			0.6860	CY2016 Co-product: 1,372 lbs/yr.
CY2017 Faci			0.3900	CY2017 Co-product: 780 lbs/yr.
CY2018 Facil	ity Total: 8.7114		2.1050	CY2018 Co-product: 4,210 lbs/yr.

Source: Ruby Hill Mining Company, LLC - Ru	by Hill Mine (formerly Homesta	ake Mining Company	of California): FIN 0399; C	Class 2 AQOP AP1041-0713.01; MOPTC AP1041-2252							
	System Description: Assay Laboratory (DM3.001 - DM3.010)											
Hg		1.3818		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.							
	CY2006 Facility Total:	28.7825		0.5000	CY2006 Co-product: 1,000 lbs/yr.							
	CY2007 Facility Total:	35.2201		0.3800	CY2007 Co-product: 760 lbs/yr.							
	CY2008 Facility Total:	1.3883		0.2400	CY2008 Co-product: 480 lbs/yr.							
	CY2009 Facility Total:	7.2874		0.1762	CY2009 Co-product: 352.40 lbs/yr.							
	CY2010 Facility Total:	34.4158		0.0000	CY2010 Co-product: 0.00 lbs/yr.							
	CY2011 Facility Total:	11.1401		0.0495	CY2011 Co-product: 99 lbs/yr.							
	CY2012 Facility Total:	1.3818		0.0000	CY2012 Co-product: 0.00 lbs/yr.							
	CY2013 Facility Total:	1.3818		0.0000	CY2013 Co-product: 0.00 lbs/yr.							
	CY2014 Facility Total:	1.3818		0.0000	CY2014 Co-product: 0.00 lbs/yr.							
	CY2015 Facility Total:	1.3818		0.0000	CY2015 Co-product: 0.00 lbs/yr.							
	CY2016 Facility Total:	1.3818		0.0000	CY2016 Co-product: 0.00 lbs/yr.							
	CY2017 Facility Total:	1.3818		0.0000	CY2017 Co-product: 0.00 lbs/yr.							
	CY2018 Facility Total:	1.3818		0.0000	CY2018 Co-product: 0.00 lbs/yr.							

			N	7 01 0 4 0	000 40444 0000 14	ODTO 4040	11.0051	
	rigold Mining Com cription: Carbon F				QOP AP1041-3666; M	OPTC AP10	41-2254	
Hq	Not Reported	tpy	0.00000212	lbs/hr	0.0081	3.828	0.0000	Carbon Kiln emissions factor derived from May 2018 M29 stack test.
	cription: Mercury			103/111	0.0001	0,020	0.0000	Carbon tain chilosions lactor derived from way 2010 W25 stack test.
Ha	Not Reported	tpy	0.0000111	lbs/hr	0.0230	2.070	0.0000	Retort emissions factor derived from average of May 2018 M29 stack tests.
	cription: Tilting Cr				0.0200	2,0.0	0.0000	Troot of the factor as from a roll ago of that 2010 the stast to start
Hg	Not Reported		0.000271	lbs/hr	0.0900	332	0.0000	Furnace emissions factor derived from average of May 2018 M29 stack tests.
System Desc	cription: Electro-v	vinning Circuit (T	U4.004/S2.007	7C)			•	
Hg	22,296.23	1000gal/yr	0.0000167	lbs/hr				Electro-winning Circuit emissions factor derived from May 2018 M29 stack
System Desc	cription: Pregnant	t Strip Solution T	ank (TU4.005/	S2.007D)				test of all passive units (fluids systems). The Pregnant and Barren Strip Solution
Hg	See Above	1000gal/yr	See Above	lbs/hr				Tanks are vented to a common stack with the Electro-winning Circuit, Mercury
System Desc	cription: Barren S	trip Solution Tan	k (TU4.006/S2	2.007E)				Retort and Crucible Furnace. Normally the Retort result is used as a surrogate,
Hg	See Above	1000gal/yr	See Above	lbs/hr	0.1415	8,472	0.0000	but for 2018 the passive units were tested seperately and have their own result.
System Desc	cription: Mercury	Co-Product						
Hg					0.0000		0.4900	Elemental mercury collected disposed of as hazardous waste, not co-product.
System Desc	cription: Assay La	aboratory (DM3.0	01 - DM3.021)	1				
Hg					2.1072		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
				acility Total:	908.0610	_	0.1675	CY2006 Co-product: 335 lbs/yr.
				acility Total:	5.2255		0.2450	CY2007 Co-product: 490 lbs/yr.
				acility Total:	10.4883	_	0.5690	CY2008 Co-product: 1,138 lbs/yr.
				acility Total:	4.4540	1	0.8160	CY2009 Co-product: 1,632 lbs/yr.
				acility Total:	9.3695	1	1.0330	CY2010 Co-product: 2,066 lbs/yr.
				acility Total:	11.1707	_	1.0500	CY2011 Co-product: 2,100 lbs/yr.
				acility Total:	2.1159	_	1.4600	CY2012 Co-product: 2,927 lbs/yr.
				acility Total:	7.5577	1	0.4765	CY2013 Co-product: 953 lbs/yr.
				acility Total:	3.3689	_	0.0000	CY2014 Co-product: 0.00 lbs/yr.
				acility Total:	24.8525	1	0.0000	CY2015 Co-product: 0.00 lbs/yr.
				acility Total:	29.7823	1	0.0000	CY2016 Co-product: 0.00 lbs/yr.
				acility Total:	45.7881	_	0.0000	CY2017 Co-product: 0.00 lbs/yr.
			CY2018 Fa	acility Total:	2.3697		0.4900	CY2018 Co-product: 979 lbs/yr.

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					55; MOPTC AP1041-2	228						
_					iln (S2.003/TU4.001)							
Hg	Not Reported		0.00000169		0.0033	1,924	0.0000	Carbon Kiln emissions factor derived from October 2018 M29 stack tests.				
System Des	scription: Deep Be	d Carbon Scrub	per: Mercury R	etort (S2.004)	/TU4.002)							
Hg	Not Reported		0.00000236		0.0005	213	0.0000	Retort emissions factor derived from October 2018 M29 stack test.				
System Des	System Description: Deep Bed Carbon Scrubber: Smelting Furnace (2.005/TU4.003)											
Hg	Not Reported	tpy	1.173E-06	lb/hr	0.0002	144	0.0000	Furnace emissions factor derived from average of October 2018 M29 stack tests.				
System Des	scription: Deep Be	d Carbon Scrub	per: Solutions	Circuit (S2.00	6 - S2.008/TU4.004 -	TU4.006)						
Hg	Not Reported	tpy	0.00000223	lb/hr	0.0034	1,509	0.0000	Solutions Circuit emissions factor derived from October 2018 M29 stack test.				
System Des	scription: Mercury	Co-Product										
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.				
			CY2006 F	acility Total:	0.0000		0.0000	CY2006 Co-product: 0.00 lbs/yr.				
			CY2007 F	acility Total:	0.0000		0.0000	CY2007 Co-product: 0.00 lbs/yr.				
			CY2008 F	acility Total:	0.0000	1	0.0000	CY2008 Co-product: 0.00 lbs/yr.				
			CY2009 F	acility Total:	0.0000	1	0.0000	CY2009 Co-product: 0.00 lbs/yr.				
			CY2010 F	acility Total:	0.0000		0.0000	CY2010 Co-product: 0.00 lbs/yr.				
			CY2011 F	acility Total:	0.0000	1	0.0000	CY2011 Co-product: 0.00 lbs/yr.				
			CY2012 F	acility Total:	12.0456	1	0.0000	CY2012 Co-product: 0.00 lbs/yr.				
			CY2013 F	acility Total:	0.0353		0.1640	CY2013 Co-product: 327.50 lbs/yr.				
			CY2014 F	acility Total:	0.0372	1	0.3510	CY2014 Co-product: 702 lbs/yr.				
			CY2015 F	acility Total:	9.4184		0.0000	CY2015 Co-product: 0.00 lbs/yr.				
			CY2016 F	acility Total:	0.0201	1	0.0000	CY2016 Co-product: 0.00 lbs/yr.				
			CY2017 F	acility Total:	0.0022	1	0.0000	CY2017 Co-product: 0.00 lbs/yr.				
				acility Total:	0.0073	1	0.0000	CY2018 Co-product: 0.00 lbs/yr.				

Source: Barrick Turquoise Ridge Inc Getche	urce: Barrick Turquoise Ridge, Inc Getchell Mine: FIN 0389; Class 2 AQOP AP1041-0292.01; MOPTC AP1041-2249												
System Description: Assay/Met Laboratory (S2	, , , , , , , , , , , , , , , , , , , ,	.01, 1001 10	711 1041-2245										
Hg tpy	lb/hr 0.3345	I	0.0000	0.3345 lbs/yr potential to emit (PTE) - see De Minimis Designation Tech. Rev.									
	CY2006 Facility Total: 10.6752		0.0000	CY2006 Co-product: 0.00 lbs/yr.									
	CY2007 Facility Total: 4.9660		0.0000	CY2007 Co-product: 0.00 lbs/yr.									
	CY2008 Facility Total: 4.9462		0.0000	CY2008 Co-product: 0.00 lbs/yr.									
	CY2009 Facility Total: 4.9462		0.0000	CY2009 Co-product: 0.00 lbs/yr.									
	CY2010 Facility Total: 4.9462		0.0000	CY2010 Co-product: 0.00 lbs/yr.									
	CY2011 Facility Total: 4.9462		0.0000	CY2011 Co-product: 0.00 lbs/yr.									
	CY2012 Facility Total: 4.9462		0.0000	CY2012 Co-product: 0.00 lbs/yr.									
	CY2013 Facility Total: 4.9462		0.0000	CY2013 Co-product: 0.00 lbs/yr.									
	CY2014 Facility Total: 4.7375		0.0000	CY2014 Co-product: 0.00 lbs/yr.									
	CY2015 Facility Total: 4.6574		0.0000	CY2015 Co-product: 0.00 lbs/yr.									
	CY2016 Facility Total: 4.6574		0.0000	CY2016 Co-product: 0.00 lbs/yr.									
	CY2017 Facility Total: 6.2634		0.0000	CY2017 Co-product: 0.00 lbs/yr. Stack testing revealed exceedence of DM cap.									
	CY2018 Facility Total: 0.3345		0.0000	CY2018 Co-product: 0.00 lbs/yr. Source revised DM Desig. after 2017 testing.									

0.00	20.0	1.14:1	\	1 1 107 01	1 1000 1011 00	74.01.0.4	000 10101	ACCULATION AND ADVANCE AND ADV				
				N 1497; Class	1 AQOP AP1041-36	74; Class 2 F	AQOP AP1041	-3831; MOPTC AP1041-3302				
System Des	cription: Carbon l	Kiln (S2.006/104.	.001)									
Hg	Not Reported	tpy	0.000142	lbs/hr	0.8963	6,312	0.0000	Carbon Kiln emissions factor derived from December 2018 M29 stack test.				
System Des	System Description: Mercury Retort (S2.008/TU4.002)											
Hg	5,284.03	lbs/yr	1.18E-08	lbs/hr	0.0000	518	0.0000	Retort emissions factor derived from December 2018 M29 stack test.				
System Des	cription: Melt Furi	nace (S2.010/TU	4.003)									
Hg	Not Reported	lbs/yr	0.0000103	lbs/hr	0.0036	347	0.0000	Furnace emissions factor derived from December 2018 M29 stack test.				
System Des	cription: Carbon S	Stripping/Electro-	winning Cells	& Barren Tan	ks (S2.011/TU4.004 -	TU4.006)						
Hg	Not Reported	tpy	0.001416	lbs/hr	7.5719	5,347	0.0000	Carbon Stripping Circuit emissions factor derived from Dec. 2018 M29 stack test.				
System Des	scription: Mercury	Co-Product										
Hg					0.0000		0.0000	Facility-wide mercury co-product collected, no breakout by system provided.				
System Des	cription: Assay La	aboratory (S2.011	I/DM3.001 - D	M3.008)								
Hg					2.4700		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.				
	•		CY2013	acility Total:	0.0000		0.0000	CY2013 Co-product: 0.00 lbs/yr.				
			CY2014 I	acility Total:	0.0000		0.0000	CY2014 Co-product: 0.00 lbs/yr.				
			CY2015 I	acility Total:	2.5131]	0.3200	CY2015 Co-product: 637.32 lbs/yr.				
CY2016 Facility Total: 2.4911							0.4900	CY2016 Co-product: 970.07 lbs/yr.				
CY2017 Facility Total: 61.3590							0.4300	CY2017 Co-product: 869.90 lbs/yr.				
			CY2018 F	acility Total:	10.9418		0.0000	CY2018 Co-product: 0.00 lbs/yr.				

Source: Gold	Source: Gold Acquisition Corp Relief Canyon Mine: FIN 0904; Class 2 AQOP AP1041-2441; OPTC AP1041-3652; MOPTC AP1041-3585										
System Desc	System Description: Mercury Retort (S2.009B/TU4.001)										
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Mercury Retort did not operate in 2018.			
System Desc	cription: Carbon l	Regeneration Kiln	(S2.011B/TL	14.002)							
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Carbon Regeneration Klln did not operate in 2018.			
System Desc	cription: Electro-v	vinning Cells & Ba	arren Tank (S	2.012 - S2.01	5/TU4.003 - TU4.006)						
Hg	Hg 0.00 gal/yr 0 lbs/hr 0.0000 0							EW Cells & Barren Tank did not operate in 2018.			
System Desc	cription: Melt Fur	nace (S2.010B/T	J4.007)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Melt Furnace did not operate in 2018.			
System Desc	cription: Assay La	aboratory (S2.012	- S2.015/DM	3.001 - DM3.0	012)						
Hg					0.0000		0.0000	Potential to emit (PTE) of 0.34 lbs/yr, not actual - see DM Tech. Review			
CY2016 Facility Total: 0.3400							0.0000	CY2016 Co-product: 0.00 lbs/yr.			
			CY2017	Facility Total:	0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr.			
			CY2018 F	acility Total:	0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.			

Source: Ne	Source: Newmont Mining Corporation - Long Canyon Project: FIN 0959; Class 2 AQOP AP1041-3586; MOPTC AP1041-3833											
System Description: Atomic Adsorption Spectrometer (DM3.001)												
Hg				0.0000 0.0000 Potential to emit (PTE) of 0.00000346 lbs/yr, not actual - see DM Tech. Review								
				Total: 0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr.					
			CY2017 Facility Total: 0.0000			0.0000	CY2017 Co-product: 0.00 lbs/yr.					
			CY2018 Facility	Total: 0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.					

Source: Wa	lker Lane Mineral	s - Isabella Pearl	Mine: FIN 20	039; Class 2 A	QOP AP1041-3853; (OPTC AP10	41-3897; MOP	TC AP1041-3895		
System Desc	System Description: ADR Plant - Electro-winning Cells & Pregnant/Barren Tanks (S2.006 & S2.007/TU4.001 - TU4.003)									
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	EW Cells and P/B Tanks did not operate, not yet constructed.		
System Desc	cription: ADR Pla	nt - Mercury Reto	rt (S2.008/TL	J4.004)						
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Mercury Retort did not operate, not yet constructed.		
System Desc	System Description: ADR Plant - Carbon Regeneration Kiln (S2.009/TU4.005)									
Hg	0.00	gal/yr	0	lbs/hr	0.0000	0	0.0000	Carbon Regeneration Kiln did not operate, not yet constructed.		
System Desc	ription: Melt Fur	nace (S2.010/TU	4.006)							
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Melt Furnace did not operate, not yet constructed.		
System Desc	cription: Assay La	aboratory (S2.006	- S2.009/DM	3.001 - DM3.0	006)					
Hg					0.6220		0.0000	Potential to emit (PTE) of 0.622 lbs/yr, not actual - see DM Tech. Review		
	•	·	CY2017	Facility Total:	0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr.		
			CY2018 F	acility Total:	0.6220		0.0000	CY2018 Co-product: 0.000 lbs/yr.		

	Source: Osgood Mining Company, LLC (formerly ATNA Resources, Inc.): FIN 0218; Class 2 AQOP AP1041-3086; MOPTC AP1041-3089										
System Description: Assay Laboratory (DM3.001 - DM3.010)											
Hg	Hg 0.0000 0.0000 Potential to emit (PTE) of 2.4156 lbs/yr, not actual - see DM Technical Review										
			CY2013 Facil	lity Total:	2.4156		0.0000	CY2013 Co-product: 0.00 lbs/yr.			
	CY2014 Facility Total: 2.4156				2.4156		0.0000	CY2014 Co-product: 0.00 lbs/yr.			
			CY2015 Facil	lity Total:	2.4156		0.0000	CY2015 Co-product: 0.00 lbs/yr.			
			CY2016 Facil	lity Total:	0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr. Source did not operate in 2016.			
			CY2017 Facil	lity Total:	0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr. Source did not operate in 2017.			
			CY2018 Facili	ty Total:	0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr. Source did not operate in 2018.			

Source: Tonkin Springs, LLC: FIN 0395;	ource: Tonkin Springs, LLC: FIN 0395; Class 2 AQOP AP1041-0482.03; MOPTC AP1041-2726										
system Description: Assay Laboratory (DM3.001 & DM3.002)											
Hg		4.9200		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.						
	CY2010 Facility Total:	4.9200		0.0000	CY2010 Co-product: 0.00 lbs/yr.						
	CY2011 Facility Total:	4.9200		0.0000	CY2011 Co-product: 0.00 lbs/yr.						
	CY2012 Facility Total:	4.9200		0.0000	CY2012 Co-product: 0.00 lbs/yr.						
	CY2013 Facility Total:	4.9200		0.0000	CY2013 Co-product: 0.00 lbs/yr.						
	CY2014 Facility Total:	4.9200		0.0000	CY2014 Co-product: 0.00 lbs/yr.						
	CY2015 Facility Total:	4.9200		0.0000	CY2015 Co-product: 0.00 lbs/yr.						
	CY2016 Facility Total:	4.9200		0.0000	CY2016 Co-product: 0.00 lbs/yr.						
	CY2017 Facility Total:	4.9200		0.0000	CY2017 Co-product: 0.00 lbs/yr.						
	CY2018 Facility Total:	4.9200		0.0000	CY2018 Co-product: 0.00 lbs/yr.						

	ource: Mt. Hamiltion, LLC: FIN 1723; OPTC AP1041-3500; MOPTC AP1041-3520										
Source: Mt.	Hamiltion, LLC: F	IN 1723; OPTC /	AP1041-3500	; MOPTC AP ²	1041-3520						
System Desc	cription: Mercury I	Retort (S2.003/Tl	J4.001)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Mercury Retort did not operate, not yet constructed.			
System Desc	System Description: ADR Plant: Carbon Kiln (S2.004B/TU4.002)										
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Carbon Regeneration Kiln did not operate, not yet constructed.			
System Desc	cription: ADR Plan	nt: Smelting Furn	nace (S2.005/	TU4.003)							
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Smelting Furnace did not operate, not yet constructed.			
System Desc	System Description: ADR Plant: Electro-winning Cells and P/B Tanks (S2.006 - S2.010/TU4.004 - TU4.008)										
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	EW Cells and P/B Tanks did not operate, not yet constructed.			
System Desc	cription: Mercury	Co-Product									
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.			
System Desc	cription: Assay La	boratory (S2.018	- S2.023/DM	3.001 - DM3.0)14)						
Hg					0.0000		0.0000	Potential to emit (PTE) of 4.11 lbs/yr, not actual - see DM Technical Review.			
		CY2015 Facility Total: 0.0000					0.0000	CY2015 Co-product: 0.00 lbs/yr.			
CY2016 Facility Total: 0.0000					0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr.			
CY2017 Facility Total: 0.0000							0.0000	CY2017 Co-product: 0.00 lbs/yr.			
			CY2018 F	acility Total:	0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.			

Source: WK	ource: WK-Allied Hasbrouck LLC (Formerly WK Mining (USA) LTD): FIN 1915; AQOP Class 2 AP1041-3670; OPTC AP1041-3668; MOPTC AP1041-3669								
	System Description: ADR Plant: Mercury Retort (S2.003/TU4.001)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Mercury Retort did not operate, not yet constructed.	
System Desc	ription: ADR Plai	nt: Smelting Furn	nace (S2.004/	TU4.002)					
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Smelting Furnace did not operate, not yet constructed.	
System Desc	cription: ADR Plan	nt: Carbon Rege	neration Kiln (S2.005/TU4.0	003)				
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Smelting Furnace did not operate, not yet constructed.	
System Desc	cription: ADR Plai	nt: Electro-winnir	ng Cells and F	P/B Tanks (S2	.006 - S2.009/TU4.00	4 - TU4.007			
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	EW Cells and P/B Tanks did not operate, not yet constructed.	
System Desc	cription: Mercury	Co-Product							
Hg					0.0000		0.0000	Facility-wide mercury co-product collected.	
System Desc	ription: De Minim	nis Designation (N	lo units listed)					
Hg					0.0000		0.0000	No DM Designation currently issued.	
CY2016 Facility Total: 0.0000				0.0000		0.0000	CY2016 Co-product: 0.00 lbs/yr.		
	CY2017 Facility Total: 0.0000						0.0000	CY2017 Co-product: 0.00 lbs/yr.	
	CY2018 Facility Total: 0.0000						0.0000	CY2018 Co-product: X lbs/yr.	

Source: Mo	Source: McEwen Mining, Inc.: FIN 2005; Class 2 AQOP AP1041-3799; OPTC AP1041-3800; MOPTC AP1041-3801							
	System Description: ADR Plant: Carbon Regeneration Kiln, Electro-winning Cells, and Eluant (Pregnant)/Barren Tanks (S2.002 - S2.006/TU4.001 - TU4.005)							
·								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Thermal Units did not operate, not yet constructed.
System Desc	ription: ADR Pla	nt: Mercury Reto	rt (S2.007/TU	14.006)				
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Mercury Retort did not operate, not yet constructed.
System Desc	ription: ADR Pla	nt: Refinery Furn	ace (S2.008A	& S2.008B/T	U4.007)			
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Refinery Furnace did not operate, not yet constructed.
System Desc	ription: Mercury	Co-Product						
Hg					0.0000		0.0000	Facility-wide mercury co-product collected.
System Desc	ription: Assay La	boratory (S2.002	- S2.006/DM	3.001 - DM3.0	009)			
Hg					0.0000		0.0000	Potential to emit (PTE) of 1.9199 lbs/yr, not actual - see DM Technical Review.
		CY2017	Facility Total:	0.0000		0.0000	CY2017 Co-product: 0.00 lbs/yr.	
	CY2018 Facility T				0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.

Source: Cor	Source: Comstock Mining, LLC (formerly Plum Mining Company, LLC): FIN 0404; OPTC AP1041-2761; MOPTC AP1041-2690								
System Desc	System Description: Mercury Retort (S2.025/TU4.001)								
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Retort did not operate in 2018.	
System Desc	cription: Refinery	Furnace (S2.026	& S2.026.1/T	U4.002)					
Hg	0.00	tpy	0	lbs/hr	0.0000	0	0.0000	Furnace did not operate in 2018.	
System Desc	cription: Mercury	Co-Product							
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.	
System Desc	cription: Assay La	boratory (DM3.00	01 - DM3.012)					
Hg					0.0000		0.0000	Potential to emit (PTE) of 0.0309 lbs/yr, not actual - see DM Technical Review.	
				acility Total:	0.0309		0.0000	CY2011 Co-product: 0.00 lbs/yr.	
				acility Total:	0.2755		0.0000	CY2012 Co-product: 0.00 lbs/yr.	
			CY2013 I	acility Total:	0.9812		0.0003	CY2013 Co-product: 0.583 lbs/yr.	
				acility Total:	0.0708		0.0070	CY2014 Co-product: 14 lbs/yr.	
				acility Total:			0.0000	CY2015 Co-product: 0.00 lbs/yr.	
			CY2016 I	acility Total:	0.2284		0.0000	CY2016 Co-product: 0.00 lbs/yr.	
				acility Total:	0.0309		0.0000	CY2017 Co-product: 0.00 lbs/yr.	
			CY2018 Fa	acility Total:	0.0000		0.0000	CY2018 Co-product: 0.00 lbs/yr.	

Source: Mineral Ridge Gold, LLC: FIN 0398	Source: Mineral Ridge Gold, LLC: FIN 0398; Class 2 AQOP AP1041-2733; MOPTC AP1041-2222							
System Description: Assay Laboratory (DM3	System Description: Assay Laboratory (DM3.001 - DM3.011)							
Hg		2.9851		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.			
	CY2011 Facility Total:	2.1256		0.0000	CY2011 Co-product: 0.00 lbs/yr.			
	CY2012 Facility Total:	2.1256		0.0000	CY2012 Co-product: 0.00 lbs/yr.			
	CY2013 Facility Total:	2.9851		0.0000	CY2013 Co-product: 0.00 lbs/yr.			
	CY2014 Facility Total:	2.9851		0.0000	CY2014 Co-product: 0.00 lbs/yr.			
	CY2015 Facility Total:	2.9851		0.0000	CY2015 Co-product: 0.00 lbs/yr.			
	CY2016 Facility Total:	2.9851		0.0000	CY2016 Co-product: 0.00 lbs/yr.			
	CY2017 Facility Total:	2.9851		0.0000	CY2017 Co-product: 0.00 lbs/yr.			
	CY2018 Facility Total:	2.9851		0.0000	CY2018 Co-product: 0.00 lbs/yr.			

Source: Goldwedge, LLC - Goldwedge Mine (f	Source: Goldwedge, LLC - Goldwedge Mine (formerly Manhattan Mining Company): FIN 0373; Class 2 AQOP AP1041-1457; MOPTC AP1041-2303							
System Description: Assay Laboratory & Dore Smelting Furnace (DM3.002 - DM3.007)								
Hg		0.3624		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.			
	CY2006 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.			
	CY2008 Facility Total:	4.1040		0.0000	CY2008 Co-product: 0.00 lbs/yr.			
	CY2009 Facility Total:	4.1040		0.0000	CY2009 Co-product: 0.00 lbs/yr.			
	CY2010 Facility Total:	4.1040		0.0000	CY2010 Co-product: 0.00 lbs/yr.			
	CY2011 Facility Total:	4.1040		0.0000	CY2011 Co-product: 0.00 lbs/yr.			
	CY2012 Facility Total:	4.4661		0.0000	CY2012 Co-product: 0.00 lbs/yr.			
	CY2013 Facility Total:	4.4661		0.0000	CY2013 Co-product: 0.00 lbs/yr.			
	CY2014 Facility Total:	4.4661		0.0000	CY2014 Co-product: 0.00 lbs/yr.			
	CY2015 Facility Total:	0.3624		0.0000	CY2015 Co-product: 0.00 lbs/yr.			
	CY2016 Facility Total:	0.3624		0.0000	CY2016 Co-product: 0.00 lbs/yr.			
	CY2017 Facility Total:	0.3624		0.0000	CY2017 Co-product: 0.00 lbs/yr.			
	CY2018 Facility Total:	0.3624		0.0000	CY2018 Co-product: 0.00 lbs/yr.			

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	pource: Newmont Mining Corporation - Phoenix Mine: FIN 0388; Class 2 AQOP AP1041-0220.03; MOPTC AP1041-2247								
	ystem Description: Electric Carbon Regeneration Kiln (S2.003/TU4.001)								
Hg	2,128.00		0.00000412	lbs/hr	0.0146	3,546	0.0000	Carbon Kiln emissions factor derived from May 2018 M29 stack test.	
System Desc	system Description: Mercury Retort (S2.014/TU4.002)								
Hg	8.00	tpy	0.0000623	lbs/hr	0.0287	461	0.0000	Retort emissions factor derived from Oct. 2018 M29 stack test.	
System Desc	cription: Mercury	Co-Product							
Hg					0.0000		0.0000	Facility-wide mercury co-product collected - Retort.	
System Desc	cription: Pregnant	& Barren Tanks	, Electro-winni	ng Cells, Dryi	ng Oven and 2 AA Uni	ts. SXEW	EW Cells and I	Metallurgical Lab DM status pending determination. (S2.014/DM3.001 - DM3.018)	
Hg					0.5773		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.	
			CY2006 F	acility Total:	2.3061		0.0000	CY2006 Co-product: 0.00 lbs/yr.	
			CY2007 F	acility Total:	0.4579		0.0000	CY2007 Co-product: 0.00 lbs/yr.	
			CY2008 F	acility Total:	0.8053		0.0000	CY2008 Co-product: 0.00 lbs/yr.	
			CY2009 F	acility Total:	1.3102		0.0000	CY2009 Co-product: 0.00 lbs/yr.	
			CY2010 F	acility Total:	0.3835		0.0000	CY2010 Co-product: 0.00 lbs/yr.	
			CY2011 F	acility Total:	0.3749		0.0000	CY2011 Co-product: 0.00 lbs/yr.	
			CY2012 F	acility Total:	0.3724		0.0000	CY2012 Co-product: 0.00 lbs/yr.	
				acility Total:	0.5415		0.0370	CY2013 Co-product: 60 lbs/yr.	
			CY2014 F	acility Total:	0.5799		0.0000	CY2014 Co-product: 0.00 lbs/yr.	
				acility Total:	0.5814		0.0000	CY2015 Co-product: 0.00 lbs/yr.	
				acility Total:	0.6238		0.0000	CY2016 Co-product: 19 lbs/yr.	
				acility Total:	0.6685		0.0140	CY2017 Co-product: 28 lbs/yr.	
				acility Total:	0.6206		0.0000	CY2018 Co-product: 0.00 lbs/yr.	

Source: Barr	ick Goldstrike Mir	nes, Inc.: FIN 00	05; Class 1 A	QOP AP1041	-0739.02; OPTC AP10	041-2805; M	OPTC AP1041	-2221
System Desc	ription: North Ro	aster Mill Circuit	#1 Air Pre-He	ater and Dry	Grinding Process (S2.2	204 & S2.20	5.01 - S2.205.1	
Hg	2,709,353.00	tpy	0.00158	lbs/hr	13.829266	8,753	0.0000	Mill Circuit #1 emissions factor derived from average (3) of 2018 M29 stack tests.
System Desc	ription: South Ro	paster Mill Circuit	#2 Air Pre-He	ater and Dry	Grinding Process (S2.	206 & S2.20	7.01 - S2.207.	12/TU4.002)
Hg	2,716,619.00	tpy	0.00209	lbs/hr	16.23303	7,767	0.0000	Mill Circuit #2 emissions factor derived from average (2) of 2018 M29 stack tests.
System Desc	ription: Roasters	#1 & #2 (S2.209	.1 & S2.209.2	/TU4.003 & T	U4.004)			
		,			,			Roaster Circuit emissions factor derived from average (2) of 2018 M29 stack tests.
								Testing was conducted during dual Roaster operations. Annual hours operated
								is the average of individual Roaster operations. Roaster #1 operated 7,814
Hg	5,524,949.00	tpy	0.0141	lbs/hr	109.8531	7,791	144.5900	hrs/yr, Roaster #2 operated 7,767 hrs/yr.
System Desc	cription: North Ro		Quenchina Pro	cess (S2.210)/TU4.005)			
Hq	2,918,892.00	tpy	0.00284	lbs/hr	22.19176	7,814	0.0000	Quench Circuit #1 emissions factor derived from average (2) of 2018 M29 stack test.
	cription: South Ro					.,	0.0000	addition of our and in the original additional additional and and a second additional additional and a second additional additional and a second additional additiona
Hg	2,836,929.00	tpy	0.00486	lbs/hr	37.74762	7,767	0.0000	Quench Circuit #2 emissions factor derived from average (2) of 2018 M29 stack test.
	cription: Analytica				07.74702	1,101	0.0000	Querion Girotic #2 emissions lactor derived from average (2) or 2010 Wize stack test.
Hq	42.00	tpy	0.000302	lbs/hr	2.6455	8,760	0.0000	Assay Lab emissions factor derived from August 2018 M29 satck test.
	ription: Carbon F				2.0433	0,700	0.0000	Assay Lab emissions ractor derived from August 2010 M23 satch test.
					0.2000	4 566	0.0000	Carbon Kiln amissions factor derived from July 2019 M20 stock test
Hg	4,757.00	tpy	0.000044	lbs/hr	0.2009	4,566	0.0000	Carbon Kiln emissions factor derived from July 2018 M29 stack test.
			olution Lanks		2.004.1/TU4.009 & TU	J4.011)		DDT 1 A
Hg	Not Reported	gals/yr		lbs/hr	0.0000	14.046	0.0000	P/B Tanks A emissions reported in conjunction with Carbon Reactivation Kiln.
			olution Tanks		2.004.1/TU4.010 & TU	J4.012)		
Hg	Not Reported	gals/yr		lbs/hr	0.0000		0.0000	P/B Tanks B emissions reported in conjunction with Carbon Reactivation Kiln.
System Desc	cription: Autoclave	e #1 (S2.015/TU	4.013)			Acidic	Operation	
Hg		tpy		lbs/hr	0.0000		0.0000	Autoclave #1 did not operate in 2018.
System Desc	cription: Autoclave	es #2 & 3 (S2.01)	6 & S2.017/TU	J4.014 & TU4	1.015))	Acidic	Operation	
								Autoclaves #2 & 3 emissions factor derived from 2018 M29 stack tests.
								Testing was conducted during dual Autoclave operations. Annual hours
								operated is the average of individual Autoclave operations. Autoclave #2
								operated 8,133 hrs/yr, Autoclave #3 operated 8,119 hrs/yr.
Hg	2,059,722.00	tny	0.00106	lbs/hr	8.6136	8,126	0.0000	operated 6, 100 files yt, 7 taloulate 1/0 operated 6, 110 files yt.
	cription: Autoclave	tpy es #4 - 6 (\$2 018					Operation	
System Desc	ilplion. Autociave	es #4 - 0 (32.010	- 32.020/102	1.010 - 104.0	TO))	Acidio	I	Annual emissions reporting documentation does not specify under which operating
								scenario testing was conducted, or whether dual scenario operations were
								undertaken. Therefore, all hours, throughput, and emissions are reported under
								Alkaline mode.
Hg		tpy		lbs/hr	0.0000		0.0000	
System Desc	cription: Autoclave	es #4 - 6 (S2.018	- S2.020/TU	1.016 - TU4.0	18)	Alkalin	e Operation	
								Autoclaves #4 - 6 emissions factor derived from June 2018 M29 stack test.
								Testing was conducted during simultaneous operations. Annual hours operated
								is the average of individual Autoclave operations. Autoclave #4 operated
								7,274 hrs/yr; #5 operated 7,559 hrs/yr; and #6 operated 7,918 hrs/yr.
Hg	2,869,666.00	tpy	0.0000363	lbs/hr	0.2753	7,584	0.0000	
	cription: Mercury I	Retort #1 (S2.009						
Hg	150.60	tpy	0.00000166	lbs/hr	0.0049	2,949	0.0000	Retort #1 emissions factor derived from May 2018 M29 stack test.
	cription: Mercury F					,,,,,,,		,
Hg	150.60	tpy	0.000011	lbs/hr	0.0412	3,745	0.0000	Retort #2 emissions factor derived from May 2018 M29 stack test.
	cription: Mercury F			155/111	0.0712	0,770	0.0000	1. 1515.17.12 Simodono lactor delived from may 2010 M20 Stack tool.
Hg	150.60	tpy	0.0000137	lbs/hr	0.0497	3,629	0.0000	Retort #3 emissions factor derived from May 2018 M29 stack test.
	cription: Mercury F			103/111	0.0431	5,029	0.0000	Theter to emissions factor derived from Iviay 2010 IVIZT stack test.
				lbe/br	0.0057	910	0.0000	Potent #4 emissions factor derived from May 2019 M20 steel test
Hg Custom Dage	150.60	tpy	0.00000621	lbs/hr	0.0057		0.0000	Retort #4 emissions factor derived from May 2018 M29 stack test.
System Desc	ription: East & W	rest Retinery Fur	naces & Elect	ro-winning Ce	eiis compined vented ti	nrougn a coi	ninon carbon fi	ilter and stack (S2.013 & S2.014/TU4.022 & TU4.023)
								Furnaces's/EW Cells emissions factor derived from 2018 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 842 hrs/yr; West Furnace (TU4.023)
Hg	111.00	tpy	0.025	lbs/hr	22.6750	907	0.0000	operated 972 hrs/yr.
	cription: Electro-w	vinning Cells only		.024)				
		,		,				EW Cells emissions factor derived from 2018 M29 stack test while the
								Furnaces were not operating. Total reported EW Cell operating hours were 7,346
Hg	Not Reported	gals/yr	0.0018	lbs/hr	13.2228	7,346	0.0000	hrs/yr. Unclear in reporting if this is net of combined furnace operations.
					inks (S2.333.1 - S2.33			This yr. Choose in reporting it this is not of combined furnace operations.
Cystern Desc	npaon. Resin-III-	Leach (IXIL) Eluli		generation Ta		J.0/104.020	\	RIL Elution Circuit Regeneration Tanks commenced operations 11/18/14.
U~	10 405 00	100000104	0.0000430	lbo/br	0.2207	7 255	0.0000	'
Hg	18,485.20	1000gals/yr	0.0000436	lbs/hr	0.3207	7,355	0.0000	RIL Regen. Tanks emissions factor derived from July 2018 M29 stack test.

System Desc	cription: Resin-In-	Leach (RIL) Elec	tro-winning Ci	rcuit & Pregna	ant/Barren Tanks (S2.	342.1 - S2.3	42.3/TU4.030	/
								RIL EW Circuit & P/B Tanks commenced operations 11/24/14.
Hg	Not Reported	gals/yr	0.000039	lbs/hr	0.2677	6,864	0.0000	RIL EW Circuit emissions factor derived from average of 2017 M29 stack tests.
System Desc	cription: Mercury	Co-Product						
Hg					0.0000		9.2600	Co-product generated/collected for all Retort units.
System Desc	cription: Assay, N	lill, Mill Met, Auto	clave, Autocla	ve Met and R	loaster Pumphouse La	aboratories, S	Strip Circuit Are	ea and Ore Fines Fee System (S2.051.1/DM3.001 - DM3.079).
Hg					4.5800		0.0000	Potential to emit (PTE), not actual - see De Minimis Designation Tech. Rev.
			CY2006 I	Facility Total:	616.7650		98.5500	CY2006 Co-product: 197,100 lbs/yr.
			CY2007 I	Facility Total:	708.6590		58.6300	CY2007 Co-product: 117,260 lbs/yr.
			CY2008 I	Facility Total:	166.0557		87.3300	CY2008 Co-product: 134,660 lbs/yr.
			CY2009 I	Facility Total:	369.7831		61.8730	CY2009 Co-product: 123,746 lbs/yr.
			CY2010 I	Facility Total:	266.9336		60.1080	CY2010 Co-product: 120,216 lbs/yr.
			CY2011 I	Facility Total:	630.5519		59.9200	CY2011 Co-product: 119,840 lbs/yr.
			CY2012 I	Facility Total:	334.9836		44.4100	CY2012 Co-product: 88,820 lbs/yr.
			CY2013 I	Facility Total:	386.0257		50.6700	CY2013 Co-product: 111,708 lbs/yr.
			CY2014 I	Facility Total:	227.3012	1	53.4000	CY2014 Co-product: 117,727 lbs/yr.
			CY2015 I	Facility Total:	273.8005]	66.4800	CY2015 Co-product: 146,563 lbs/yr.
			CY2016 I	Facility Total:	271.8309	1	126.6000	CY2016 Co-product: 279,105 lbs/yr.
			CY2017 I	Facility Total:	177.5724	1	148.0100	CY2017 Co-product: 326,306 lbs/yr.
			CY2018 F	acility Total:	252.7577		153.8500	CY2018 Co-product: 307,705.93 lbs/yr (reported in short tons). No calomel /elemental breakout provided. CY's 2013-17 lbs/yr corrected to metric tons.

CY 2018 Cum	ulative Totals	CY 2018 process emissions were solely derived using one consistent
Process Emissions (lbs/yr)		FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.
730.74	205.53	Co-product: 411,060.00 lbs/yr (205.53 short tons)
CY 2017 Cum	ulative Totals	CY 2017 process emissions were solely derived using one consistent
Process Emissions (lbs/yr)		FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.
707.10	186.56	Co-product: 403,406 lbs/yr (148.01 metric tons, 38.55 short tons)
Process Emissions		CY 2016 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 to ensure reporting accuracy.
696.68	164.35	Co-product: 328,700 lbs/yr
CY 2015 Cum	ulative Totals	CY 2015 process emissions were solely derived using one consistent
Process 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.
688.12	131.17	Co-product: 262,340 lbs/yr

Process Emissions (lbs/yr) 484.21	Co-Product (tpy) 145.12	CY 2014 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 to ensure reporting accuracy. Co-product: 290,240 lbs/yr
CY 2013 Cum	ulative Totals	CY 2013 process emissions were solely derived using one consistent
Process Emissions (lbs/yr)	Co-Product	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 some instances, 2012 test results were used due to invalidated 2013 test results.
748.63	111.57	Co-product: 223,140 lbs/yr

CY 2012 C	umulative T	otals	CY 2012 process emissions were solely derived using one consistent
Process Emissions			FRM testing methodology (Method 29). Testing protocols were reviewed prior to test commencement and all final report submittals were reviewed to ensure reporting accuracy.
(lbs/yr)		(tpy)	, ,
1,393.42		115.95	Co-product: 231,900 lbs/yr

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CY 2010 C	umulative T	otals	CY 2011 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
Process Emissions		Co-Product	to ensure reporting accuracy.
(lbs/yr)		(tpy)	
1,607.96		106.77	
			Co-product: 213,540 lbs/yr

Note: The total value is lower than actual industry-wide 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. See 2009 Report for details.

CY 2010 Cumu	lative Totals	CY 2010 process emissions were solely derived using one consistent
Process 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.
1,134.15	101.59	Co-product: 203,180 lbs/yr
·	·	
CY 2009 Cumu	lative Totals	CY 2009 process emissions were solely derived using one consistent
Process 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 lbs/yr
CY 2008 Cumulative Totals		CY 2008 process emissions were largely derived using one consistent
Process 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 large transport of the protocol of the protocol of the protocol of the protocol of the testing protocol of testing protocol of testing protocol of testing protocol of testin
3,165.90	102.93	Co-product: 205,860 lbs/yr
CY 2007 Cumulative Totals		Toward and the state of the sta
CY 2007 Cumu	lative Totals	CY 2007 process emissions were largely derived using one consistent

CY 2007 Cumulative Totals		otals	CY 2007 process emissions were largely derived using one consistent
			FRM testing methodology (Method 29) with scattered M101A and OHM
Process Emissions		Co-Product	results used in lieu of M29 due to test schedule conflicts/logistics issues.
lbs/yr		tpy	Testing protocals were reviewed prior to test commencement and all final
			report submittals were reviewed to ensure reporting accuracy.
4,764.52		97.68	Co-product: 195,360 lbs/yr

CY 2006 Cumulative Totals		otals	CY 2006 process emissions and co-product values were accepted
Process 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 lbs/yr