RAYMOND JAMES

MINING

Farooq Hamed, CA | 416.777.7117 | farooq.hamed@raymondjames.ca **Judith Elliott, (Associate)** | 416.777.7165 | judith.elliott@raymondjames.ca

NOVEMBER 16, 2020 | 6:31 AM EST INDUSTRY COMMENT

3Q20 Stats Pack: Strong FCF and Balance Sheet Improvement Supports Dividend Growth

With 3Q20 reporting now complete for the majority of companies in our coverage universe, we provide a statistical review of operating and financial performance and how our companies are positioned for 4Q20 versus annual guidance expectations (see Exhibits 4-64). In general, the precious and base metals producers in our coverage universe generated strong FCFs in 3Q20, aided by higher metals prices, which allowed for an overall improvement in balance sheet ratios and supported dividend increases, particularly for the precious metals producers.

Looking to 4Q20, we believe the majority of our coverage companies are well positioned to achieve annual operating guidance with our modeling suggesting AEM and ERO are on a YTD pace to potentially exceed production guidance with NGD and ERO tracking below cost guidance.

Takeaway trends and themes from 3Q20 include:

3Q20 Q/Q FCF Growth and Balance Sheet Improvement: With commodity prices across the metals complex improving q/q and many operations returning to full capacity after Covid-related downtime in 2Q20, the majority of precious and base metals producers in our coverage universe posted strong FCF growth q/q driving balance sheet improvement. Among the gold producers we highlight AEM, AUY, BTO, CXB, IAG and KGC as having significant q/q increases in FCF with FM and LUN as standouts among the base metals producers. The strong FCFs drove a reduction in net debt for the majority of our coverage companies (see Ex. 1 for details on q/q FCF and balance sheet performance).

Gold Producers Increase Giving - Dividends Keep Increasing: With the strong FCFs and improving balance sheets, all of our dividend paying gold producers increased dividend rates in 3Q with KGC re-instating its dividend after a multi-year hiatus. Over the past year, BTG has quadrupled its dividend while both AUY and AEM have grown dividends by ~160% and 100% respectively. The base metals producers maintained dividend rates in the quarter (see Ex.2 for dividend details).

4Q20 Expected to be Strongest Production Quarter of the Year: The majority of our gold producers are expecting 4Q20 to be the strongest production quarter of the year incorporating operational re-starts, ramp-ups and mine sequencing. With the exception of OGC, gold producers in our coverage universe have delivered 71-75% of annual production guidance YTD which we expect will allow the majority to achieve production guidance for the year when incorporating the expectation of a strong 4Q. Our modeling suggests AEM could exceed annual production guidance while we expect OGC's production to come in slightly below the guided level. Among the base metals producers, we expect FM and ERO to have strong 4Q production positioning both to achieve the top end or potentially exceed annual production guidance (see Ex.3 for details).

		Current		Targe	t Price	Div.		
Company	Ticker	Price	Rating	Old	New	Yield	Suitability	
Ero Copper Corp.	ERO-TSX	C\$20.17	MO2		C\$21.50	0.0%	H/GRW	
First Quantum Minerals Ltd.	FM-TSX	C\$15.52	MP3	C\$18.00	C\$19.00	0.1%	H/GRW	
Hudbay Minerals, Inc.	HBM-TSX	C\$6.75	MP3		C\$7.00	0.3%	H/GRW	
vanhoe Mines Ltd.	IVN-TSX	C\$5.79	MO2		C\$7.50	0.0%	H/GRW	
undin Mining Corporation	LUN-TSX	C\$8.63	MP3		C\$9.00	1.9%	H/GRW	
Agnico Eagle Mines Ltd.	AEM-NYSE	\$74.55	MO2	\$94.00	\$95.00	1.9%	M/GRW	
32Gold Corp.	BTG-NYSE	\$6.02	MO2		\$8.50	2.7%	H/GRW	
Calibre Mining Corp.	CXB-TSX	C\$2.42	SB1	C\$2.75	C\$3.25	0.0%	H/GRW	
AMGOLD Corporation	IAG-NYSE	\$3.51	MP3	\$6.50	\$6.00	0.0%	H/GRW	
Kinross Gold Corporation	KGC-NYSE	\$7.94	MO2		\$14.00	1.5%	H/GRW	
New Gold Inc.	NGD-NYSE	\$1.88	MP3	\$2.00	\$2.25	0.0%	H/GRW	
OceanaGold Corporation	OGC-TSX	C\$1.77	MO2	C\$4.00	C\$3.75	0.7%	H/GRW	
Yamana Gold Inc.	AUY-NYSE	\$5.48	MP3	•	\$8.50	1.9%	, H/GRW	

Note: SB1 - Strong Buy, MO2 - Outperform, MP3 - Market Perform, MU4 - Underperform, UR - Under Review, S - Suspended; M/INC - Medium Risk/Income, M/GRW - Medium Risk/Growth, H/GRW - High Risk/Growth, H/INC - High Risk/Income, H/SPEC - High Risk/Speculation.

Exhibit 1: 3Q Financial Trends - Growing FCF, Shrinking Debt

		Free Cash Flo)W		Balanc	e Sheet	
	3Q (\$mln)	2Q (\$ mln)	3Q/2Q Δ FCF (\$ mln)	3Q Net Debt (\$ mln)	2Q Net Debt (\$ mln)	3Q/2Q Δ Net Debt (\$ mln)	Refinance Debt
Precious Metals	(\$11111)	(\$ 111111)	(\$ 11111)	(\$ 11111)	(\$ 11111)	Best (\$ 11111)	Dest
AEM	\$295	(\$30)	\$326	\$1,249	\$1,484	(\$236)	
ВТО	\$176	\$129	\$47	(\$317)	(\$157)	(\$160)	
СХВ	\$28	(\$8)	\$36	(\$56)	(\$25)	(\$31)	
IAG	\$48	\$21	\$27	(\$419)	(\$421)	\$2	✓
KGC	\$315	\$215	\$100	\$989	\$1,145	(\$155)	
NGD	\$25	\$1	\$23	\$265	\$379	(\$114)	✓
OGC	(\$65)	(\$38)	(\$27)	\$187	\$170	\$17	
AUY	\$137	\$69	\$69	\$619	\$768	(\$149)	
Base Metals							
ERO	\$28	\$7	\$21	\$118	\$131	(\$13)	
FM	\$445	\$122	\$323	\$7,518	\$7,658	(\$140)	✓
НВМ	(\$60)	(\$18)	(\$42)	\$726	\$597	\$129	✓
LUN	\$172	\$99	\$73	\$124	\$220	(\$96)	

Note: FCF estimates are RJL calculations.

Source: Company Reports, Raymond James Ltd.

Exhibit 2: Annualized Dividends Increasing

	15: : 1	20	18		20	19			2020	
Annualize	d Dividend	3Q18	4Q18	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20
Precious N	/letals									
AEM	\$/sh	\$0.44	\$0.50	\$0.50	\$0.50	\$0.70	\$0.80	\$0.80	\$0.80	\$1.40
AEIVI	\$ mln	\$103	\$117	\$118	\$118	\$168	\$193	\$192	\$194	\$341
вто	\$/sh	-	-	-	-	-	\$0.04	\$0.04	\$0.08	\$0.16
ыо	\$ mln	-	-	-	-	-	\$41	\$42	\$85	\$170
KGC	\$/sh	-	-	-	-	-	-	-	-	\$0.12
KGC	\$ mln	-	-	-	-	-	-	-	-	\$152
AUY	\$/sh	\$0.02	\$0.02	\$0.02	\$0.04	\$0.04	\$0.05	\$0.0625	\$0.07	\$0.105
AUY	\$ mln	\$19	\$19	\$19	\$38	\$38	\$48	\$60	\$67	\$100
Base Meta	als									
FM	\$/sh	C\$0.01	-	-	C\$0.01	C\$0.01	-	-	C\$0.01	C\$0.01
FIVI	\$ mln	C\$7	-	-	C\$7	C\$7	-	-	C\$7	C\$7
нвм	\$/sh	C\$0.02	-	C\$0.02	-	C\$0.02	-	C\$0.02	-	C\$0.02
ПВІУІ	\$ mln	C\$5	-	C\$5	-	C\$5	-	C\$5	-	C\$5
LUN	\$/sh	C\$0.12	C\$0.12	C\$0.12	C\$0.12	C\$0.12	C\$0.12	C\$0.16	C\$0.16	C\$0.16
LUN	\$ mln	C\$88	C\$88	C\$88	C\$88	C\$88	C\$88	C\$117	C\$117	C\$117

Source: Company Reports, Raymond James Ltd.

Exhibit 3: Expectations for 4Q20 and Performance versus Guidance

	All Operations Online (Ongoing Interruptions)	Expecting 4Q Production as Strongest Quarter of 2020	Expectations on Guida	
	(Origoning interruptions)	Strongest Quarter or 2020	Production	AISC
Precious Metals				
AEM	✓	✓	Above	Meet
ВТО	✓	✓	Meet	Meet
CXB	✓		Meet	Meet
IAG	Westwood	✓	Meet	Meet
KGC	✓	✓	Meet	Meet
NGD	✓	✓	Meet	Below
OGC	Haile, Didipio	✓	Below	Above
AUY	✓	✓	Meet	Meet
Base Metals				
ERO	✓	✓	Above MCSA	Below MCSA
FM	✓		Meet Top of Range	Meet
НВМ	777		Meet	Meet
LUN	Chapada, Candelaria	·	Meet	Meet

Source: Company Reports, Raymond James Ltd.

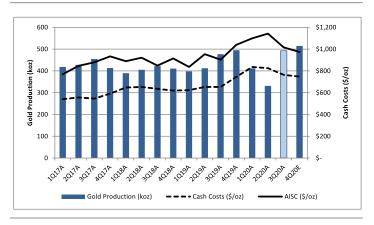
AGNICO EAGLE

Exhibit 4: AEM Guidance Comparison

Mine	YTD	Production 2020 Guidance	% of Guidance
Total Gold Production (koz)	1,235	1,680-1,730	72%
Total Cash Costs (\$/oz)	\$805	\$740-\$790	5%
AISC (\$/oz)	\$1,078	\$1,025-\$1,075	3%

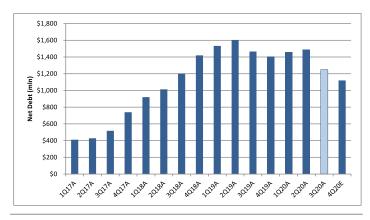
Source: Agnico Eagle Mines Ltd., Raymond James Ltd.

Exhibit 5: AEM Operating Profile



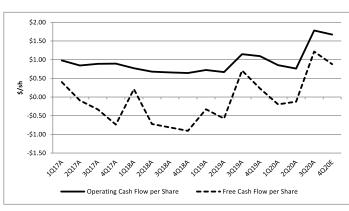
Source: Agnico Eagle Mines Ltd., Raymond James Ltd.

Exhibit 7: AEM Balance Sheet



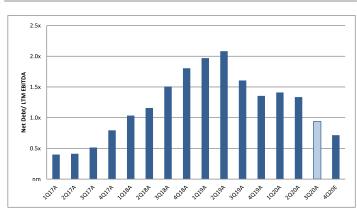
Source: Agnico Eagle Mines Ltd., Raymond James Ltd.

Exhibit 6: AEM Cash Flow Profile



Source: Agnico Eagle Mines Ltd., Raymond James Ltd.

Exhibit 8: AEM Balance Sheet Ratio



Source: Agnico Eagle Mines Ltd., Raymond James Ltd.

B2GOLD

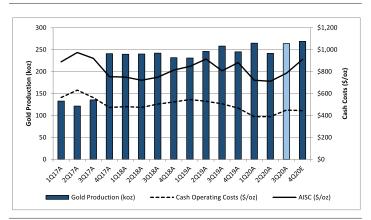
Exhibit 9: BTG Guidance Comparison

	Go	old Production (k	oz)	Cash	Operating Costs	(\$/oz)		AISC (\$/oz)	
Mine	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% of Guidance
Fekola	464	590-620	77%	\$294/oz	\$285-325/oz	-4%	\$556/oz	\$555-595/oz	-3%
Masbate	147	200-210	72%	\$646/oz	\$665-705/oz	-6%	\$1,012/oz	\$965-1,005/oz	3%
Otjikoto	128	165-175	75%	\$432/oz	\$480-520/oz	-14%	\$841/oz	\$1,010-1,050/oz	-18%
Equity Interest in Calibre	31	42-44*	73%				\$1,041/oz	\$1,050-1,070/oz*	-2%
Total	770	1,000-1,055	75%	\$405/oz	\$415-455/oz	-7%	\$740/oz	\$780-820/oz	-8%

^{*}Reflects revised 2020 guidance.

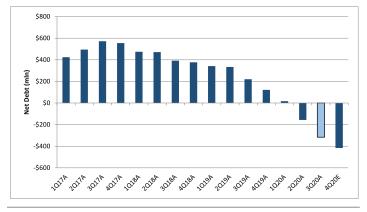
Source: B2Gold Corp., Raymond James Ltd.

Exhibit 10: BTG Operating Profile



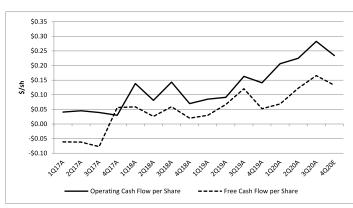
Source: B2Gold Corp., Raymond James Ltd.

Exhibit 12: BTG Balance Sheet



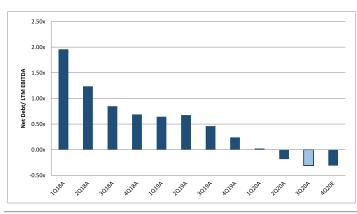
Source: B2Gold Corp., Raymond James Ltd.

Exhibit 11: BTG Cash Flow Profile



Source: B2Gold Corp., Raymond James Ltd.

Exhibit 13: BTG Balance Sheet Ratio



Source: B2Gold Corp., Raymond James Ltd.

CALIBRE MINING

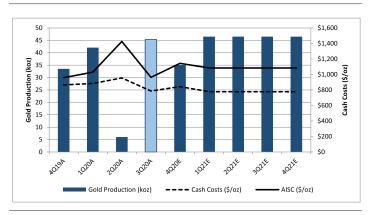
Exhibit 14: CXB Guidance Comparison

	G	old Production (koz)		Cash Costs (\$/o	z)	AISC (\$/oz)			
Mine	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% vs Guidance	YTD	2020 Guidance	% vs Guidance	
El Limon	46			\$835			\$985			
La Libertad	48			\$863			\$967			
Total Gold Production	93	125-130*	73%	\$850	\$870-\$890*	-3%	\$1,041	\$1,050-\$1,070*	-2%	

^{*}Reflects revised 2020 guidance.

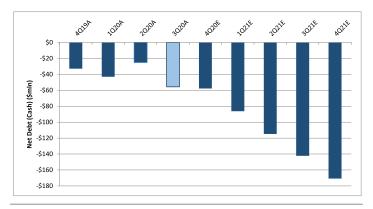
Source: Calibre Mining Corp., Raymond James Ltd.

Exhibit 15: CXB Operating Profile



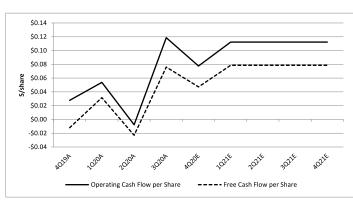
Source: Calibre Mining Corp., Raymond James Ltd.

Exhibit 17: CXB Balance Sheet



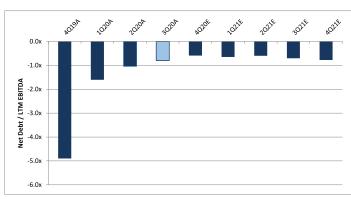
Source: Calibre Mining Corp., Raymond James Ltd.

Exhibit 16: CXB Cash Flow Profile



Source: Calibre Mining Corp., Raymond James Ltd.

Exhibit 18: CXB Balance Sheet Ratio



Source: Calibre Mining Corp., Raymond James Ltd.

ERO COPPER

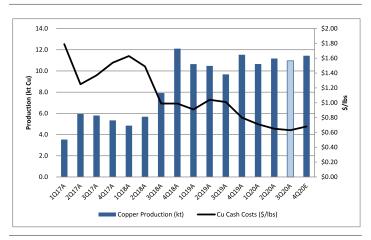
Exhibit 19: ERO Guidance Comparison

		Production			Cash Costs (\$/lb))
Mine	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% vs Guidance
MCSA						
Copper Production (kt)	32.8	41-43	78%	\$0.66	\$0.70-\$0.85	-15%
NX Gold						
Gold Production (koz)	26.0	36-37*	71%	\$478	\$425-\$525	1%

^{*}Reflects revised 2020 guidance.

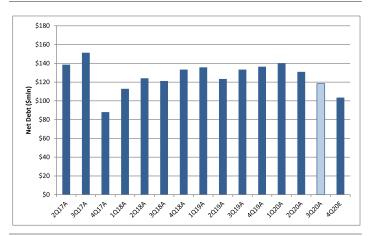
Source: ERO Copper Corp., Raymond James Ltd.

Exhibit 20: ERO Operating Profile



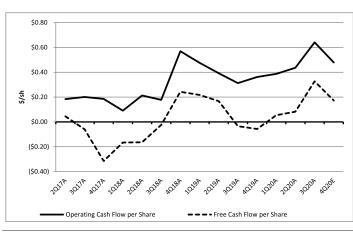
Source: ERO Copper Corp., Raymond James Ltd.

Exhibit 23: ERO Balance Sheet



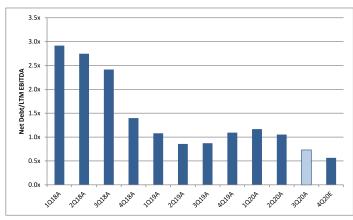
Source: ERO Copper Corp., Raymond James Ltd.

Exhibit 21: ERO Cash Flow Profile



Source: ERO Copper Corp., Raymond James Ltd.

Exhibit 24: ERO Balance Sheet Ratio



Source: ERO Copper Corp., Raymond James Ltd.

FIRST QUANTUM

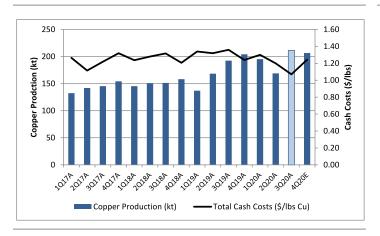
Exhibit 25: FM Guidance Comparison

	(Copper Production	(kt)	Go	ld Production	(koz)	Z	inc Productior	ı (kt)	Ni	ckel Productio	n (kt)
Mine	YTD	Guidance*	% of Guidance	YTD	Guidance*	% of Guidance	YTD	Guidance*	% of Guidance	YTD	Guidance*	% of Guidance
Kansanshi	169	220-230*	75%	99	125-130*	78%						
Sentinel	188	240-250*	77%									
Cobre Panama	140	190-205*	71%	59	75-85*	74%						
Las Cruces	44	55*	80%									
Guelb Moghrein	21	27*	78%	35	42*	82%						
Cayeli	10	14*	70%				2.6	4*	64%			
Pyhasalmi	4	4*	90%	2	2	77%	2.7	3*	89%			
Ravensthorpe										7	13-15*	51%
Total Production	576 kt	750-785*	75%	196 koz	245-260*	78%	5 kt	7*	75%	7 kt	13-15*	51%
C1 Cash Costs (\$/lb Cu)	\$1.19	\$1.20-\$1.30*	-5%									
AISC (\$/lb Cu)	\$1.58	\$1.60-\$1.70*	-4%									

^{*}Reflects revised 2020 guidance.

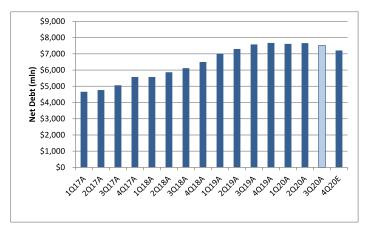
Source: First Quantum Minerals Ltd., Raymond James Ltd.

Exhibit 26: FM Operating Profile



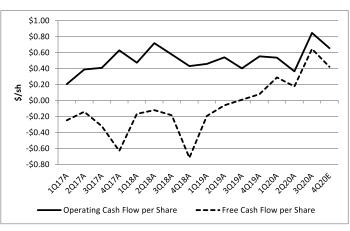
Source: First Quantum Minerals Ltd., Raymond James Ltd.

Exhibit 28: FM Debt Profile



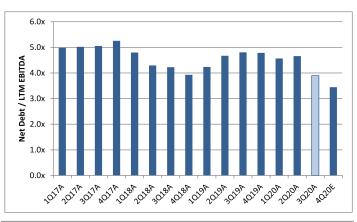
Source: First Quantum Minerals Ltd., Raymond James Ltd.

Exhibit 27: FM Cash Flow Profile



Source: First Quantum Minerals Ltd., Raymond James Ltd.

Exhibit 29: FM Debt Ratio Profile



Source: First Quantum Minerals Ltd., Raymond James Ltd.

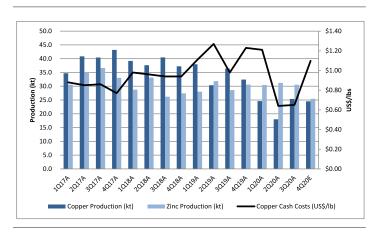
HUDBAY

Exhibit 30: HBM Guidance Comparison

		Production		Combined Min	e/Mill Unit Opera	ating Cost
	YTD	Guidance	% of Guidance	YTD	Guidance	% vs guidance
Manitoba						
Copper (kt)	16.5	18-22	82%	C\$129/tonne	C\$130-	-4%
Zinc (kt)	92.3	105-125	80%	C\$129/tonne	140/tonne	-4%
Precious Metals (koz)	93.4	110-135	76%			
Peru						
Copper (kt)	51.6	65-75	74%	USCO 16/hamma	US\$8.30-	0%
Precious Metals (koz)	21.6	25-35	72%	US\$9.16/tonne	10.00/tonne	0%
Molybdenum (tonnes)	870	1,100-1,300	73%			
Total Copper Production (kt)	68.1	83-97	76%			
Total Zinc Production (kt)	92.3	105-125	80%			
Total Precious Metals (koz)	114.9	135-170	75%			
Total Molybdenum (t)	870	1,100-1,300	73%			

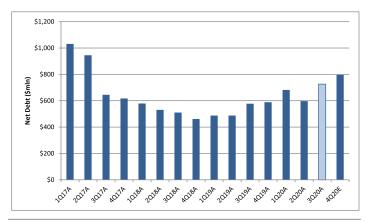
Source: Hudbay Minerals Inc.., Raymond James Ltd.

Exhibit 31: HBM Operating Profile



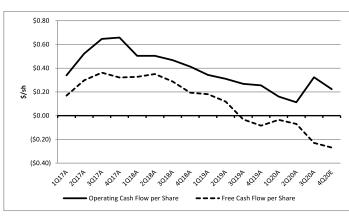
Source: Hudbay Minerals Inc.., Raymond James Ltd.

Exhibit 33: HBM Debt Profile



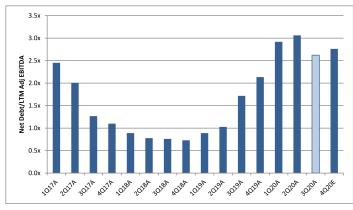
Source: Hudbay Minerals Inc.., Raymond James Ltd.

Exhibit 32: HBM Cash Flow Profile



Source: Hudbay Minerals Inc.., Raymond James Ltd.

Exhibit 34: HBM Debt Ratio Profile



Source: Hudbay Minerals Inc.., Raymond James Ltd.

IAMGOLD

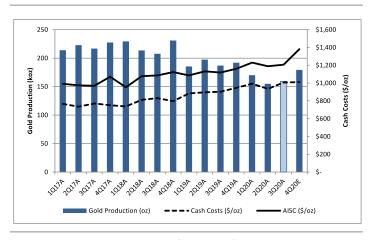
Exhibit 35: IAG Guidance Comparison

	Attribu	ıtable Product	ion (koz)		Cash Costs (\$/o:	z)		AISC (\$/oz)	
Mine	YTD	2020	% of	YTD	2020	% vs	YTD	2020	% vs
	TID	Guidance	Guidance	שוז	Guidance	Guidance	יוו	Guidance	Guidance
Rosebel	158	210-230	72%						
Essakane	261	350-370	73%						
Westwood	65	70-80*	87%						
Total		500 500*		40-0	4000 44 040*	4.60/	44.000	\$1,240 -	a ==:/
Production	484	630-680*	74%	\$979	\$980-\$1,010*	-1.6%	\$1,209	\$1,270*	-3.7%

^{*}Reflects revised 2020 guidance.

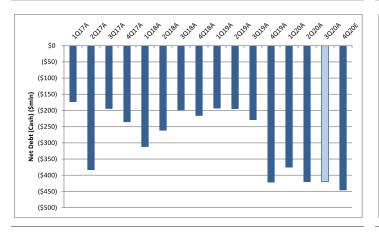
Source: IAMGOLD Corp., Raymond James Ltd.

Exhibit 36: IAG Operating Profile



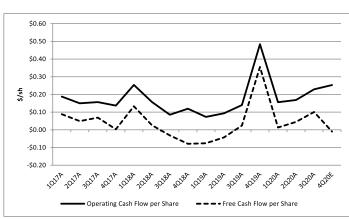
Source: IAMGOLD Corp., Raymond James Ltd.

Exhibit 38: IAG Debt Profile



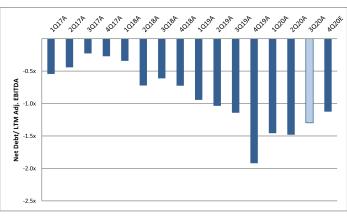
Source: IAMGOLD Corp., Raymond James Ltd.

Exhibit 37: IAG Cash Flow Profile



Source: IAMGOLD Corp., Raymond James Ltd.

Exhibit 39: IAG Debt Ratio Profile



Source: IAMGOLD Corp., Raymond James Ltd.

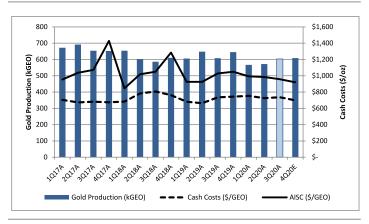
KINROSS

Exhibit 40: KGC Guidance Comparison

	GI	EO Prod (kGEO)		Prod C	ost of Sales (\$/0	GEO)		AISC (\$/GEO)			
Region	YTD	Guidance	%	YTD	Guidance	%	YTD	Guidance	%		
Americas	952	1,300	73%	\$788	\$770	2%					
West Africa (attr.)	410	600	68%	\$771	\$670	15%					
Russia Gold	380	500	76%	\$594	\$650	-9%					
Total	1,743	2,400	73%	\$738	\$720	2%	\$978	\$970	1%		

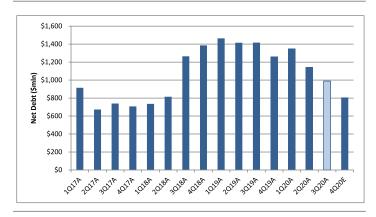
Source: Kinross Gold Corp., Raymond James Ltd.

Exhibit 41: KGC Operating Profile



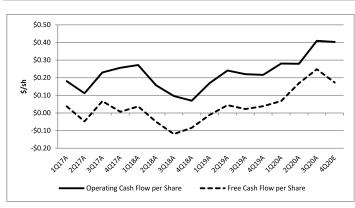
Source: Kinross Gold Corp., Raymond James Ltd.

Exhibit 43: KGC Debt Profile



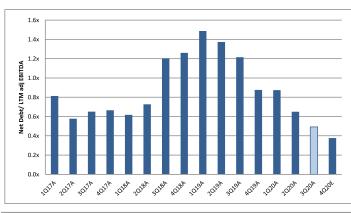
Source: Kinross Gold Corp., Raymond James Ltd.

Exhibit 42: KGC Cash Flow Profile



Source: Kinross Gold Corp., Raymond James Ltd.

Exhibit 44: KGC Debt Ratio Profile



Source: Kinross Gold Corp., Raymond James Ltd.

LUNDIN MINING

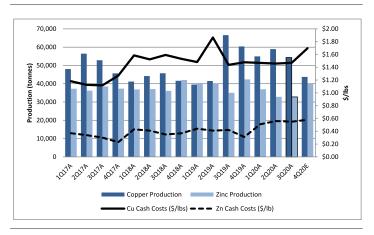
Exhibit 45: LUN Guidance Comparison

	Production (kt)			Cash Cost (\$/lb)			
Mine	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% Vs Guidance	
Copper							
Candelaria (100%)	107	N/A	N/A	\$1.34	N/A	N/A	
Chapada	39	45-50*	82%	\$0.44	\$0.55/lb*	-20%	
Eagle	14	17-19	75%				
Neves-Corvo	26	32-34*	79%	\$1.95	\$2.10/lb	-7%	
Zinkgruvan	3	3-4	96%				
Total Copper Production	189	N/A	N/A				
<u>Nickel</u>							
Eagle	12	15-18	72%	\$0.51	\$0.50/lb*	2%	
Total Nickel Production	12	15-18	72%				
<u>Zinc</u>							
Neves-Corvo	52	70-72*	74%				
Zinkgruvan	49	72-74*	67%	\$0.54	\$0.60/lb	-10%	
Total Zinc Production	101	142-146*	70%				
Gold (koz)							
Candelaria (100%)	63	N/A	N/A				
Chapada	65	85-90*	74%				
Total Gold Production	128	N/A	N/A				

^{*}Reflects revised guidance.

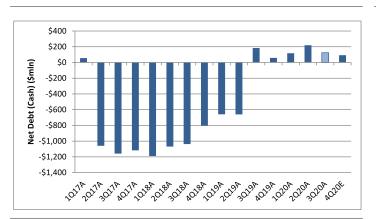
Source: Lundin Mining Corp., Raymond James Ltd.

Exhibit 46: LUN Operating Profile



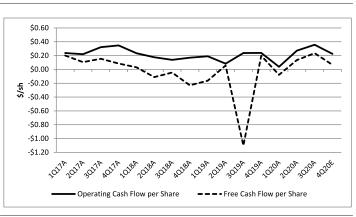
Source: Lundin Mining Corp., Raymond James Ltd.

Exhibit 48: LUN Debt Profile



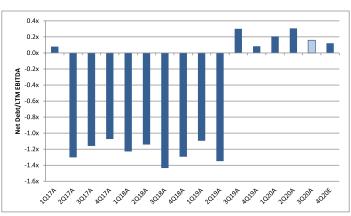
Source: Lundin Mining Corp., Raymond James Ltd.

Exhibit 47: LUN Cash Flow Profile



Source: Lundin Mining Corp., Raymond James Ltd.

Exhibit 49: LUN Debt Ratio Profile



Source: Lundin Mining Corp., Raymond James Ltd.

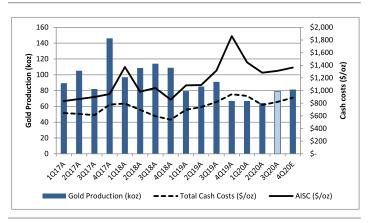
NEW GOLD

Exhibit 50: NGD Guidance Comparison

	2020 (Gold Productio	n (koz)	2020 Cash Costs (\$/ GEO)			2020 AISC (\$/ GEO)		
Mine	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% of Guidance	YTD	2020 Guidance	% of Guidance
New Afton	48	62-72	71%	\$742	\$740-\$820	-5%	\$971	\$1,080-1,160	-13%
Rainy River	162	222-232	71%	\$924	\$920-\$980	-3%	\$1,592	\$1,610-1,690	-4%
Total	210	284-304	71%	\$839	\$830-\$910	-4%	\$1,349	\$1,410-\$1,490	-7%

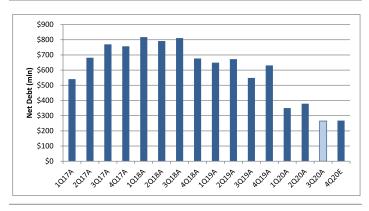
Source: New Gold Inc., Raymond James Ltd.

Exhibit 51: NGD Operating Profile



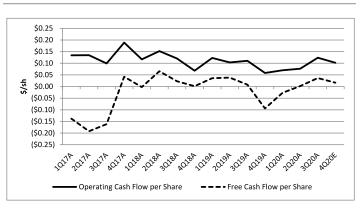
Source: New Gold Inc., Raymond James Ltd.

Exhibit 53: NGD Debt Profile



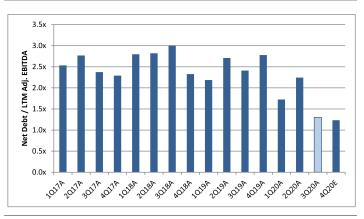
Source: New Gold Inc., Raymond James Ltd.

Exhibit 52: NGD Cash Flow Profile



Source: New Gold Inc., Raymond James Ltd.

Exhibit 54: NGD Debt Ratio Profile



Source: New Gold Inc., Raymond James Ltd.

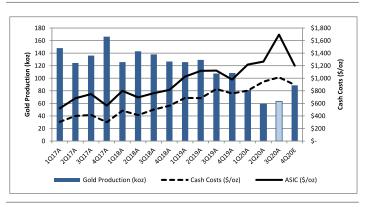
OCEANAGOLD

Exhibit 55: OGC Guidance Comparison

Production (koz)		Cash Costs (\$/oz)			AISC (\$/oz)				
Mine	YTD	Guidance	% of Guidance	YTD	Guidance	% Vs Guidance	YTD	Guidance	% Vs Guidance
Gold									
Haile	88	135-175	57%	\$1,084	\$650-\$700	61%	\$1,570	\$1,100-\$1,400	26%
Waihi	12	20	61%	\$432	\$700-\$750	-40%	\$376	\$715-\$765	-49%
Macraes	102	140-150	70%	\$835	\$725-\$775	11%	\$1,232	\$1,100-\$1,150	10%
Total	203	295-345	63%	\$904	\$675-\$725	29%	\$1,367	\$1,150-\$1,250	14%

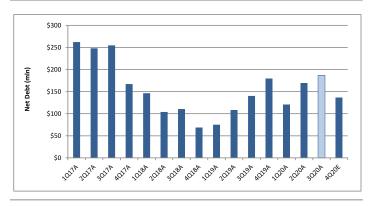
Source: OceanaGold Corp., Raymond James Ltd.

Exhibit 56: OGC Operating Profile



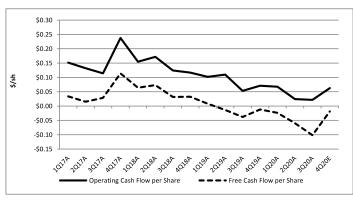
Source: OceanaGold Corp., Raymond James Ltd.

Exhibit 58: OGC Debt Profile



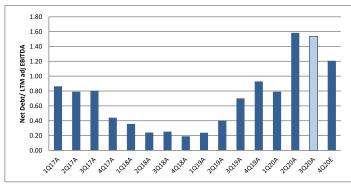
Source: OceanaGold Corp., Raymond James Ltd.

Exhibit 57: OGC Cash Flow Profile



Source: OceanaGold Corp., Raymond James Ltd.

Exhibit 59: OGC Debt Ratio Profile



Source: OceanaGold Corp., Raymond James Ltd.

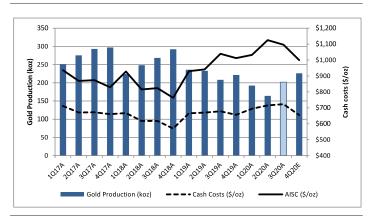
YAMANA GOLD

Exhibit 60: AUY Guidance Comparison

		Production			AISC	
Operations	YTD	2020 Guidance	% of Guidance	3Q20	2H20 Guidance	% vs guidance
GEO Production (kGEO)	646	915	71%	\$1,096	\$1,020-\$1,060	5%

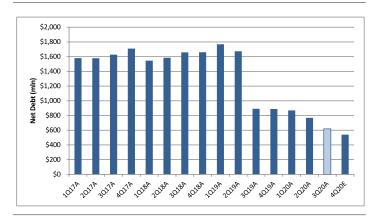
Source: Yamana Gold Inc., Raymond James Ltd.

Exhibit 61: AUY Operating Profile



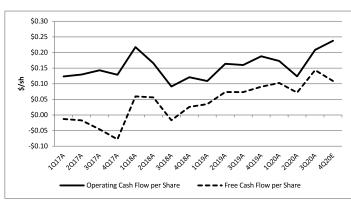
Source: Yamana Gold Inc., Raymond James Ltd.

Exhibit 63: AUY Debt Profile



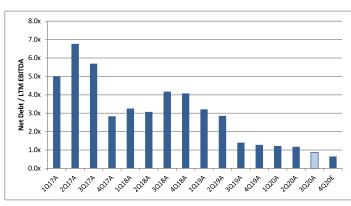
Source: Yamana Gold Inc., Raymond James Ltd.

Exhibit 62: AUY Cash Flow Profile



Source: Yamana Gold Inc., Raymond James Ltd.

Exhibit 64: AUY Debt Ratio Profile



Source: Yamana Gold Inc., Raymond James Ltd.

AGNICO EAGLE MINES LTD. (AEM-NYSE)

Outperform 2 Target Price \$95.00 ↑ old: \$94.00					
Suitability	Medium Risk/Growth				
MARKET DATA					
Current Price (Nov-12-20)	\$74.55				
Market Cap (mln)	\$18,180				
Current Net Debt (mln)	\$1,249				
Enterprise Value (mln)	\$19,429				
Shares Outstanding (mln) 243.9				
30-Day Avg. Daily Value (ı	mln) \$85.5				
Dividend	\$1.40				
Dividend Yield	1.9%				
52-Week Range	\$31.00 - \$89.23				

KEV	CINI/	/ NICI	AI M	ETRI	CC
	L III	111 C I	ᄊᄔᆘ	LIN	CO

KETTIMANCIA	LIMETIKI	-3		
	1Q	2Q	3Q	4Q
EPS (\$, Dec FY)				
2019A	0.16	0.12	0.32	0.37
2020E	0.23	0.18	0.67	0.93
new	0.23 A	0.18 A	0.78 A	0.84
2021E	0.98	0.99	1.03	1.09
new	0.95	0.96	0.99	1.06
	20	19A	2020E	2021E
EPS (\$, Dec FY)				
old		0.96	2.01	4.08
new	(0.96	2.03	3.96

	2019A	2020E	2021E
Revenue (mln)	(\$, Dec FY)		
old	2,495	3,194	4,182
new	2,495	3,242	4,237
CFPS (\$, Dec F	Y)		
old	3.63	4.73	7.00
new	3.63	5.06	7.14
Au Price (US\$/	oz) (\$, Dec FY)		
	1,392	1,789	2,000
Au Production	(000 oz) (Dec	FY)	
old	1,782	1,741	2,036
new	1,782	1,750	2,063
AISC (US\$/oz)	(\$, Dec FY)		
old	938	1,035	909
new	938	1,047	938

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

B2GOLD CORP. (BTG-NYSE)

Outperform 2 Target Price \$8.50	
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	\$6.02
Market Cap (mln)	\$6,404
Current Net Debt (mln)	\$(317)
Enterprise Value (mln)	\$6,088
Shares Outstanding (mln)	1,063.8
30-Day Avg. Daily Value (mln	\$38.2
Dividend	\$0.16
Dividend Yield	2.7%
52-Week Range	\$2.16 - \$7.55

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
CFPS (\$, Dec	FY)			
2019A	0.09	0.09	0.16	0.14
2020E	0.21	0.22	0.23	0.23
new	0.21 A	0.22 A	0.28 A	0.23
2021E	0.22	0.20	0.20	0.20
new	0.22	0.21	0.20	0.20
	20	19A	2020E	2021E
CFPS (\$, Dec		19A	2020E	2021E
CFPS (\$, Dec	FY)	19A).48	2020E 0.89	2021E 0.82
()	FY)			

	2019A	2020E	2021E
Revenue (ml	ln) (\$, Dec FY)		
	1,156	1,811	1,848
Au Productio	on (000 oz) (Dec	FY)	
old	980	1,040	987
new	980	1,039	987
AISC (US\$/o	z) (\$, Dec FY)		
old	820	809	915
new	820	784	893
Au Price (US	\$/oz) (\$, Dec FY)		
	1,392	1,789	2,000

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

CALIBRE MINING CORP. (CXB-TSX)

Strong Buy 1

Target Price C\$3.25 ↑ old: C\$2.75				
Suitability	High Risk/ Growth			
MARKET DATA				
Current Price (Nov-12-20)	C\$2.42			
Market Cap (mln)	C\$878			
Current Net Debt (mln)	C\$(77)			
Enterprise Value (mln)	C\$800			
Shares Outstanding (mln)	362.6			

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
CFPS (\$, Dec F)	')			
2019A	(0.00)	(0.01)	(0.03)	0.03
2020E	0.05	(0.01)	0.09	0.08
new	0.05 A	(0.01) A	0.12 A	0.08
2021E	0.11	0.11	0.11	0.11
	2	019A	2020E	2021E
CFPS (\$, Dec F)	()			
old	(0.01)	0.22	0.46
new	(0).01)	0.24	0.45

	2019A	2020E	2021E
Revenue (mln) (S, Dec FY)		
old	58	235	372
new	58	229	372
Au Price (US\$/oz	:) (\$, Dec FY)		
	1,392	1,789	2,000
Au Production (0	000 oz) (Dec	FY)	
old	34	131	186
new	34	128	186

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

C\$0.46 - C\$2.80

C\$1.1

C\$0.00

0.0%

30-Day Avg. Daily Value (mln)

Dividend

Dividend Yield

52-Week Range

ERO COPPER CORP. (ERO-TSX)

Outperform 2 Target Price C\$21.50	
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	C\$20.17
Market Cap (mln)	C\$1,744
Current Net Debt (mln)	C\$157
Enterprise Value (mln)	C\$1,901
Shares Outstanding (mln)	86.4
30-Day Avg. Daily Value (mln)	C\$3.1
Dividend	C\$0.00
Dividend Yield	0.0%
52-Week Range	C\$8.40 - C\$23.93

		RICS

KEY FINANCIA	LMETRIC	-5		
	1Q	2Q	3Q	4Q
EPS (\$, Dec FY)				
2019A	0.17	0.17	0.18	0.44
2020E	0.23	0.22	0.37	0.37
new	0.23 A	0.22 A	0.42 A	0.33
2021E	0.30	0.31	0.31	0.31
new	0.30	0.31	0.31	0.30
	20	19A	2020E	2021E
EPS (\$, Dec FY)				
old	(0.96	1.19	1.24
new	(0.96	1.20	1.21

	2019A	2020E	2021E
EBITDA (mln) (\$,	Dec FY)		
old	125	175	178
new	125	183	185
Revenue (mln) (\$, Dec FY)		
old	280	308	334
new	280	313	337
Cu Production (0	000s MT) (De	c FY)	
	42	44	43
Cu Price (US\$/lb) (\$, Dec FY)		
	2.73	2.71	2.80

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

FIRST QUANTUM MINERALS LTD. (FM-TSX)

Market Perform 3 Target Price C\$19.00 ↑	old: C\$18.00
Suitability	High Risk/ Growth
MARKET DATA Current Price (Nov-12-20)	C\$15.52

MARKET DATA	
Current Price (Nov-12-20)	C\$15.52
Market Cap (mln)	C\$10,690
Current Net Debt (mln)	C\$9,999
Enterprise Value (mln)	C\$22,223
Shares Outstanding (mln)	688.8
30-Day Avg. Daily Value (mln)	C\$35.4
Dividend	C\$0.01
Dividend Yield	0.1%
52-Week Range	C\$4.71 - C\$17.43

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec F	Y)			
2019A	0.08	0.11	0.05	0.05
2020E	(0.11)	(0.12)	(0.01)	0.07
new	(0.11) A	(0.12) A	0.09 A	0.10
2021E	0.19	0.19	0.20	0.21
new	0.22	0.22	0.22	0.22
	2	019A	2020E	2021E
EPS (\$, Dec F	Y)			
old		0.29	(0.17)	0.79
new		0.29	(0.04)	0.89

	2019A	2020E	2021E
EBITDA (mln) (\$, Dec FY)		
old	1,381	1,919	2,747
new	1,381	1,905	2,784
Revenue (mln)	(\$, Dec FY)		
old	4,067	4,860	5,363
new	4,067	4,973	5,399
Cu Production	(000s MT) (De	ec FY)	
old	702	768	835
new	702	782	833
Cu Price (US\$/l	b) (\$, Dec FY)		
	2.73	2.71	2.80

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

HUDBAY MINERALS, INC. (HBM-TSX)

Market Perform 3

Target Price C\$7.00	
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	C\$6.75
Market Cap (mln)	C\$1,764
Current Net Debt (mln)	C\$966
Enterprise Value (mln)	C\$2,729
Shares Outstanding (mln)	261.3
30-Day Avg. Daily Value (mln) C\$6.9
Dividend	C\$0.02
Dividend Yield	0.3%
52-Week Range	C\$1.66 - C\$7.31

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec	FY)			
2019A	(0.05)	(0.21)	(1.05)	(0.10)
2020E	(0.13) A	(0.15) A	(0.10) A	(80.0)
2021E	0.00	(0.01)	0.01	0.02
new	(0.01)	(0.02)	0.00	0.06
	20)19A	2020E	2021E
EPS (\$, Dec	FY)			
old	(1	L.41)	(0.47)	0.01
new	(1	.41)	(0.46)	0.04

	2019A	2020E	2021E
EBITDA (mln)	(\$, Dec FY)		
old	276	280	474
new	276	288	487
Revenue (mln) (\$, Dec FY)		
old	1,237	999	1,326
new	1,237	1,040	1,355
CFPS (\$, Dec I	=Y)		
old	1.18	0.68	1.25
new	1.18	0.82	1.30
Cu Production	n (000s MT) (De	c FY)	
old	137	88	113
new	137	93	114
Cu Price (US\$	/lb) (\$, Dec FY)		
	2.73	2.71	2.80

IAMGOLD CORPORATION (IAG-NYSE)

Market Perform 3 Target Price \$6.00 old: \$6.50			
Suitability	High Risk/ Growth		
MARKET DATA			
Current Price (Nov-12-20)	\$3.51		
Market Cap (mln) \$1,6			
Current Net Debt (mln) \$(
Enterprise Value (mln) \$1,24			
Shares Outstanding (mln) 4			
30-Day Avg. Daily Value (ml	n) \$15.9		
Dividend	\$0.00		
Dividend Yield	0.0%		
52-Week Range	\$1.44 - \$5.35		

KEY FINANCIAL METRICS

11211111111111	AL METRIC			
	1Q	2Q	3Q	4Q
EPS (\$, Dec F	Y)			
2019A	(0.09)	(0.03)	(0.01)	0.00
2020E	(0.01)	0.04	0.10	0.16
new	(0.01) A	0.04 A	0.11 A	0.12
2021E	0.15	0.15	0.15	0.16
new	0.11	0.14	0.15	0.16
	20	19A	2020E	2021E
EPS (\$, Dec F		19A	2020E	2021E
EPS (\$, Dec F	Y)	19A .13)	2020E 0.29	2021E 0.61
()	Y) (0			
old	Y) (0	.13)	0.29	0.61
old	Y) (0	.13)	0.29	0.61

	2019A	2020E	2021E
Revenue (mln) (\$, Dec FY)		
old	1,065	1,241	1,623
new	1,065	1,244	1,593
CFPS (\$, Dec FY)			
old	0.79	0.86	1.23
new	0.79	0.82	1.17
Au Price (US\$/oz)	(\$, Dec FY)		
	1,392	1,789	2,000
Au Production (00	00 oz) (Dec	FY)	
old	762	678	811
new	762	663	797
AISC (US\$/oz) (\$,	Dec FY)		
old	1,124	1,222	1,258
new	1,124	1,254	1,279

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

IVANHOE MINES LTD. (IVN-TSX)

Outperform 2 Target Price C\$7.50	
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	C\$5.79
Market Cap (mln)	C\$6,949
Current Net Debt (mln)	C\$(447)
Enterprise Value (mln)	C\$6,374
Shares Outstanding (mln)	1,200.2
30-Day Avg. Daily Value (mln)	C\$5.0
Dividend	C\$0.00
Dividend Yield	0.0%
52-Week Range	C\$1.80 - C\$6.08

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec	FY)			
2019A	0.01	0.00	0.01	(0.01)
2020E	(0.01)	(0.00)	(0.02)	(0.02)
new	(0.01) A	(0.00) A	(0.00) A	(0.01)
2021E	(0.02)	(0.02)	0.03	0.04
new	(0.01)	(0.01)	0.03	0.04
new	(0.01)	(0.01)		
new		(0.01) 019A	0.03 2020E	0.04 2021E
new EPS (\$, Dec	2	` '		
	2	` '		
EPS (\$, Dec	2 ¹ FY)	019A	2020E	2021E

	2019A	2020E	2021E
CFPS (\$, Dec FY)			
old	(0.02)	(0.06)	0.18
new	(0.02)	(0.05)	0.19
new Cu Price (US\$/lb		(0.05)	0.19
		(0.05) 2.71	0.19 2.80

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

KINROSS GOLD CORPORATION (KGC-NYSE)

Outperform 2 Target Price \$14.00	
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	\$7.94
Market Cap (mln)	\$9,989
Current Net Debt (mln)	\$989
Enterprise Value (mln)	\$10,979
Shares Outstanding (mln)	1,269.0
30-Day Avg. Daily Value (mln)	\$101.3
Dividend	\$0.12
Dividend Yield	1.5%
52-Week Range	\$2.72 - \$10.32

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec FY)				
2019A	0.05	0.06	0.05	0.13
2020E	0.10	0.15	0.22	0.25
new	0.10 A	0.15 A	0.25 A	0.24
2021E	0.26	0.27	0.29	0.31
new	0.28	0.28	0.30	0.31
	20	19A	2020E	2021E
EPS (\$, Dec FY)				
old	(0.29	0.72	1.13
new	().29	0.74	1.16

	2019A	2020E	2021E
Revenue (mln)	(\$, Dec FY)		
old	3,497	4,091	4,686
new	3,497	4,147	4,779
CFPS (\$, Dec FY)		
old	0.85	1.35	1.67
new	0.85	1.37	1.70
Au Price (US\$/o	z) (\$, Dec FY)		
	1,392	1,789	2,000
Au Production ((000 oz) (Dec	FY)	
old	2,508	2,341	2,472
new	2,508	2,348	2,521
AISC (US\$/oz) (\$, Dec FY)		
old	983	953	993
new	983	964	991

LUNDIN MINING CORPORATION (LUN-TSX)

Market Perform 3 Target Price C\$9.00			
Suitability	High Risk/ Growth		
MARKET DATA			
Current Price (Nov-12-20)	C\$8.63		
Market Cap (mln)	C\$6,333		
Current Net Debt (mln)	C\$165		
Enterprise Value (mln)	C\$7,282		
Shares Outstanding (mln)	733.8		
30-Day Avg. Daily Value (mln)	C\$16.6		
Dividend	C\$0.16		
Dividend Yield	1.9%		
52-Week Range	C\$4.08 - C\$9.12		

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec	FY)			
2019A	0.07	(0.01)	0.04	0.13
2020E	(0.06)	0.07	0.13	0.03
new	(0.06) A	0.07 A	0.14 A	0.05
2021E	0.08	0.09	0.08	0.09
	20	19A	2020E	2021E
EPS (\$, Dec	FY)			
old	(0.23	0.18	0.34
new	().23	0.20	0.34

	2019A	2020E	2021E	
EBITDA (mln) (\$,	Dec FY)			
old	692	761	799	
new	692	761	803	
Revenue (mln) (, Dec FY)			
old	1,893	1,984	2,134	
new	1,893	1,976	2,139	
CFPS (\$, Dec FY)				
old	0.75	0.82	0.89	
new	0.75	0.89	0.89	
Cu Production (0	00s MT) (De	ec FY)		
old	208	223	256	
new	208	212	256	
Cu Price (US\$/lb) (\$, Dec FY)			
	2.73	2.71	2.80	

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

NEW GOLD INC. (NGD-NYSE)

Market Perform 3

Outperform 2

Target Price \$2.25 1 old	d: \$2.00
Suitability	High Risk/ Growth
MARKET DATA	
Current Price (Nov-12-20)	\$1.88
Market Cap (mln)	\$1,274
Current Net Debt (mln)	\$265
Enterprise Value (mln)	\$1,539
Shares Outstanding (mln)	677.9
30-Day Avg. Daily Value (mln) \$14.5
Dividend	\$0.00
Dividend Yield	0.0%
52-Week Range	\$0.39 - \$2.28

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec	FY)			
2019A	(0.02)	(0.01)	(0.04)	(0.04)
2020E	(0.03)	0.00	0.00	0.01
new	(0.03) A	0.00 A	0.02 A	0.02
2021E	0.04	0.04	0.04	0.04
	20	19A	2020E	2021E
EPS (\$, Dec	FY)			
old	(0	.11)	(0.01)	0.15
new	(0.	.11)	0.01	0.15

	2019A	2020E	2021E
Revenue (mln) ((\$, Dec FY)		
old	631	638	874
new	631	632	874
CFPS (\$, Dec FY))		
old	0.39	0.33	0.54
new	0.39	0.37	0.54
Au Price (US\$/o	z) (\$, Dec FY)		
	1,392	1,789	2,000
Au Production (000 oz) (Dec	FY)	
	323	291	353
AISC (US\$/oz) (\$, Dec FY)		
old	1,310	1,427	1,131
new	1,310	1,351	1,214

Source: Thomson One, Raymond James Ltd. Quarterly figures may not add to full year due to rounding.

OCEANAGOLD CORPORATION (OGC-TSX)

Target Price C\$3.75 ↓ old: C\$4.00						
Suitability	High Risk/ Growth					
MARKET DATA						
Current Price (Nov-12-20)	C\$1.77					
Market Cap (mln)	C\$1,272					
Current Net Debt (mln)	C\$86					
Enterprise Value (mln)	C\$1,359					
Shares Outstanding (mln)	718.8					
30-Day Avg. Daily Value (mln)	C\$4.0					
Dividend	C\$0.01					
Dividend Yield	0.7%					
52-Week Range	C\$1.16 - C\$4.01					

KEY FINANCIAL METRICS

	1Q	2Q	3Q	4Q
EPS (\$, Dec F	-Y)			
2019A	0.02	0.03	(0.04)	0.00
2020E	(0.02)	(0.05)	(0.02)	0.03
new	(0.02) A	(0.05) A	(0.04) A	0.01
2021E	0.09	0.06	0.09	0.09
new	0.08	0.06	0.08	0.08
	2	019A	2020E	2021E
EPS (\$, Dec F	-Y)			
old		0.01	(0.06)	0.33
new		0.01	(0.10)	0.31

	2019A	2020E	2021E	
Revenue (mln) (\$, Dec FY)			
old	651	507	838	
new	651	485	824	
CFPS (\$, Dec FY)				
old	0.34	0.21	0.57	
new	0.34	0.18	0.49	
Au Price (US\$/o	z) (\$, Dec FY)			
	1,392	1,789	2,000	
Au Production (000 oz) (Dec	FY)		
old	471	301	419	
new	471	292	412	
AISC (US\$/oz) (\$, Dec FY)			
old	1,061	1,223	914	
new	1,061	1,337	938	

YAMANA GOLD INC. (AUY-NYSE)

Market Perform 3		KEY FINANCIA	L METRIC	CS						
Target Price \$8.50			1Q	2Q	3Q	4Q		2019A	2020E	2021E
anger me year		EPS (\$, Dec FY)					Revenue (mln) (\$	Dec FY)		
Suitability I	High Risk/ Growth	2019A	(0.00)	0.02	0.05	0.03	old	1,612	1,630	2,007
Juitability	iigii Nisk/ Glowtii	2020E	0.05	0.07	0.07	0.09	new	1,612	1,621	2,037
MARKET DATA		new	0.05 A	0.07 A	0.10 A	0.10	CFPS (\$, Dec FY)			
MARKET DATA		2021E	0.11	0.11	0.11	0.11	old	0.62	0.74	0.97
Current Price (Nov-12-20)	\$5.48						new	0.62	0.74	0.98
Market Cap (mln)	\$5,220		20	19A	2020E	2021E	Au Price (US\$/oz)	(\$, Dec FY)		
Current Net Debt (mln)	\$619	EPS (\$, Dec FY)						1,392	1,789	2,000
Enterprise Value (mln)	\$5,850	old		0.10	0.28	0.43	Au Production (0	00 oz) (Dec	FY)	•
Shares Outstanding (mln)	954.5	new	(0.10	0.32	0.43	old	900	783	868
30-Day Avg. Daily Value (mln)	\$89.5						new	900	784	880
Dividend	\$0.11						AISC (US\$/oz) (\$,	Dec FY)		
Dividend Yield	1.9%						old	978	1,051	884
52-Week Range	\$2.23 - \$7.02						new	978	1,017	884

IMPORTANT INVESTOR DISCLOSURES

Unless otherwise specified, the term "Raymond James" shall denote, where appropriate, Raymond James & Associates, Inc. (RJA), Raymond James Ltd. (RJL), and their affiliates, subsidiaries and related entities.

Analyst Information

Analyst Compensation: Research analysts and associates at Raymond James are compensated on a salary and bonus system. Several factors enter into the compensation determination for an analyst, including: i) research quality and overall productivity, including success in rating stocks on an absolute basis and relative to the local exchange composite index and/or sector index; ii) recognition from institutional investors; iii) support effectiveness to the institutional and retail sales forces and traders; iv) commissions generated in stocks under coverage that are attributable to the analyst's efforts; v) net revenues of the overall Equity Capital Markets Group; and vi) comparable compensation levels for research analysts at competing peer firms.

Registration of Non-U.S. Analysts: The analysts listed on the front of this report who are not employees of, or associated with, RJA are not registered/qualified as research analysts under FINRA rules and are not subject to FINRA Rule 2241 restrictions on communications with covered companies, trading securities held by a research analyst account, and obligations related to identifying and managing conflicts of interest.

This global disclosure considers all entities of Raymond James and its affiliates. The jurisdiction where the analyst(s) is registered will determine what is permitted. For example, if the persons responsible for the content of this report are not licensed as research analysts in accordance with applicable rules promulgated by the regulatory organization(s) where this report is distributed, any client wishing to effect trades in any security should contact their Raymond James representative.

The analyst Farooq Hamed, primarily responsible for the preparation of this research report, attests to the following: (1) that the views and opinions rendered in this research report reflect his or her personal views about the subject companies or issuers and (2) that no part of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views in this research report. In addition, said analyst(s) has not received compensation from any subject company in the last 12 months.

Farooq Hamed of Raymond James Ltd. is a non-US Analyst

Company Specific Disclosures

Methodology: The Raymond James methodology for assigning ratings and target prices includes a number of qualitative and quantitative factors, including an assessment of industry size, structure, business trends, and overall attractiveness; management effectiveness; competition; visibility; financial condition; and expected total return, among other factors. Collectively, these factors are subject to change depending on overall economic conditions or industry- or company-specific occurrences.

Target Prices: The information below indicates Raymond James' target price and rating changes for any subject companies over the past three years.

General Risk Factors

Following are some general risk factors that pertain to the businesses of the subject companies and the projected target prices and recommendations included on Raymond James research: (1) Industry fundamentals with respect to customer demand or product/service pricing could change and adversely impact expected revenues and earnings; (2) issues relating to major competitors or market shares or new product expectations could change investor attitude toward the sector or this stock; (3) Unforeseen developments with respect to the management, financial condition or accounting policies or practices could alter the prospective valuation.

Relationship Disclosures

Certain affiliates of Raymond James expect to receive or intend to seek compensation for investment banking services from all companies under research coverage within the next three months. The person(s) responsible for the production of this report declare(s) that, as far as they are aware, there are no relationships or circumstances (including conflicts of interest) that may in any way impair the objectivity of this recommendation directly or indirectly. This statement applies equally to any persons closely associated with him or her. However, it is possible that persons making communications in relation to a security may have a holding in that security and this will be disclosed. As stated, Raymond James has controls in place to manage such risks.

In the event that this is a compendium report (i.e., covers six or more subject companies), Raymond James may choose to provide specific disclosures for the subject companies by reference. To access these disclosures, clients should refer to: raymondjames.bluematrix.com/sellside/Disclosures.action or call toll free at 1.800.237.5643 in the United States or 1.800.667.2899 in Canada. In other jurisdictions, please contact your local Raymond James' representative.

Investor Disclosures

In the United States (or U.S.), RJA is registered with the Financial Industry Regulatory Authority (FINRA) as a member firm. RJA is responsible for the preparation and distribution of reports created in the United States. RJA is located at The Raymond James Financial Center, 880 Carillon Parkway, St. Petersburg, Florida 33716 (Raymond James Financial (RJF) Corporate Headquarters), 727.567.1000. Raymond James Financial Services, Inc. (RJFS) is registered with FINRA as a Member Firm. RJFS is located at the RJF Corporate Headquarters.

RJA non-U.S. affiliates, which are not FINRA member firms (with the exception of Raymond James (USA) Ltd.), include the following entities, which are responsible for the creation or distribution of reports in their respective areas:

In Canada, RJL is registered with the Investment Industry Regulatory Organization of Canada (IIROC) as a member firm. RJL is responsible for the preparation and distribution of reports created in Canada. RJL is located at Suite 2100, 925 West Georgia Street, Vancouver, BC V6C 3L2 (RJL Head Office), 604.659.8200. Raymond James (USA) Ltd. (RJLU) is registered with FINRA as a member firm, which is responsible for the distribution of reports created in Canada and the United States to both American clients living in Canada and Canadian clients living in the United States. RJLU is located at the RJL Head Office.

In France, Raymond James Euro Equities (RJEE) is authorised and regulated by the Autorite de Controle Prudentiel et de Resolution and the Autorite des Marches Financiers. RJEE is located at SAS, 45 Avenue George V, 75008, Paris, France, +33 1 45 61 64 90.

In the United Kingdom, Raymond James Financial International Ltd. (RJFI) and Raymond James Investment Services, Ltd. (RJIS) are authorised and regulated by the Financial Conduct Authority (FCA). RJFI and RJIS are located at Ropemaker Place, 25 Ropemaker Street, London, England, EC2Y 9LY, +44 203 798 5600.

This report is not directed to, or intended for distribution to or use by, any person or entity that is a citizen or resident of or located in a locality, state, province, country, or other jurisdiction where such distribution, publication, availability, or use would be strictly prohibited or contrary to law or regulation. The securities discussed in this report may not be eligible for sale in some jurisdictions. This research is not an offer to sell or the solicitation of an offer to buy any security in any jurisdiction where such an offer or solicitation would be illegal. It is not investment advice and does not constitute a personal recommendation, nor does it take into account the particular investment objectives, financial situations, or needs of individual clients. Information in this report should not be construed as advice designed to meet the individual objectives of any particular investor. Investors should consider this report as only a single factor in making their investment decision. Some investments discussed in this report may have a high level of volatility. High volatility investments may experience sudden and large falls in their value causing losses when that investment is realized. Those losses may equal your original investment. Consultation with your Raymond James representative is recommended. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Nothing in this report constitutes investment, legal, accounting or tax advice or is a representation that any investment or strategy is suitable or appropriate to your individual circumstances or otherwise constitutes a personal recommendation to you.

The information provided is as of the date above and is subject to change and may or may not be updated. This report should not be deemed a recommendation to buy or sell any security. Certain information has been obtained from third-party sources Raymond James considers reliable, but Raymond James does not guarantee that such information is accurate or complete. Persons within Raymond James may have information that is not available to the contributors of the information contained in this report. Raymond James, including affiliates and employees, may execute transactions in the securities listed in this report that may not be consistent with the ratings appearing in this report.

With respect to materials prepared by Raymond James, all expressions of opinion reflect the judgment of the Research Departments of Raymond James, or its affiliates, as of the date above and are subject to change. Raymond James may perform investment banking or other services for, or solicit investment banking business from, any company mentioned in this report.

Raymond James reports are disseminated and available to Raymond James clients simultaneously via electronic publication to Raymond James' internal proprietary websites (RJA: RJ Client Access & raymondjames.com; RJL: RJL ECM Client Access, RJL Retail Client Access & raymondjames.ca). Not all reports are directly distributed to clients or third-party aggregators. Certain reports may only be disseminated on Raymond James' internal proprietary websites; however, such reports will not contain estimates or changes to earnings forecasts, target price, valuation, or investment or suitability rating. Individual Raymond James associates may also opt to circulate published reports to one or more clients electronically. This electronic communication distribution is discretionary and is done only after the report has been publically disseminated via RJ's internal proprietary websites. The level and types of communications provided by Raymond James associates to clients may vary depending on various factors including, but not limited to, the client's individual preference as to the frequency and manner of receiving communications. For reports, models, or other data available on a particular security, please contact your Raymond James representative or financial advisor or visit for RJA: RJ Client Access & raymondjames.com; RJL: RJL ECM Client Access, RJL Retail Client Access & raymondjames.ca.

Raymond James' policy is to update reports as it deems appropriate, based on developments with the subject company, the sector or the market that may have a material impact on the research views or opinions stated in a report. Raymond James' policy is only to publish reports that are impartial, independent, clear, and fair and not misleading. Any information relating to the tax status of the securities discussed in this report is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular

circumstances from an independent tax professional.

Links to third-party websites are being provided for information purposes only. Raymond James is not affiliated with and does not endorse, authorize, or sponsor any of the listed websites or their respective sponsors. Raymond James is not responsible for the content of any third-party website or the collection or use of information regarding any website's users and/or members. Raymond James has not reviewed any such third-party websites and takes no responsibility for the content contained therein. Such address or hyperlink (including addresses or hyperlinks to Raymond James' own website material) is provided solely for your convenience and information, and the content of any such website does not in any way form part of this report. Accessing such website or following such link through this report or Raymond James' website shall be at your own risk. Additional information is available on request.

All right, title, and interest in any Raymond James reports is the exclusive property of Raymond James Financial, Inc. and its affiliates, except as otherwise expressly stated. Raymond James® is the registered trademark of Raymond James Financial, Inc. All trademarks, service marks, slogans, logos, trade dress and other identifiers, third-party data and/or market data ("intellectual property") displayed in the Raymond James reports are the property of Raymond James, or of other parties. The names of other companies and third-party products or services or other intellectual property mentioned in the Raymond James reports may be the copyright, trademarks, or service marks of their respective owners. U.S. and foreign copyright, trademark, common law rights and statutes protect this intellectual property. You are prohibited from using any intellectual property for any purpose including, but not limited to, use on other materials, in presentations, as domain names, or as metatags, without the express written permission of Raymond James or such other party that may own the marks.

Notice to RJA PCG Financial Advisors - Non-U.S. securities discussed in this report are generally not eligible for sale in the U.S. unless they are listed on a U.S. securities exchange. This report may not be used to solicit the purchase or sale of a security in any state where such a solicitation would be illegal. By accessing this report, you agree to not solicit the purchase or sale of any security mentioned in the report that is not listed on a U.S. securities exchange, or is not otherwise registered under applicable state Blue Sky laws. Furthermore, you acknowledge that you will be solely responsible for any and all costs associated with the rescission of trades in unregistered securities. Please contact the International Research Liaison with any questions at 727.567.5559.

Raymond James & Associates PCG Financial Advisors - Foreign securities discussed in this report are generally not eligible for sale in the U.S. unless they are listed on a U.S. exchange. This report may not be used to solicit the purchase or sale of a security in any state where such a solicitation would be illegal. By accessing this report, you agree to not solicit the purchase or sale of any security mentioned in the report that is not listed on a U.S. exchange, or is not otherwise registered under applicable state Blue Sky laws. Furthermore, you acknowledge that you will be solely responsible for any and all costs associated with the rescission of trades in unregistered securities. Please contact the International Research Liaison with any questions at extension 75559.

Ratings and Definitions

RJA (U.S.) Definitions: Strong Buy (SB1) The security is expected to appreciate, produce a total return of at least 15%, and outperform the S&P 500 over the next six to 12 months. For higher yielding and more conservative equities, such as REITs and certain MLPs, a total return of at least 15% is expected to be realized over the next 12 months. Outperform (MO2) The security is expected to appreciate or outperform the S&P 500 over the next 12-18 months. For higher yielding and more conservative equities, such as REITs and certain MLPs, an Outperform rating is used for securities where Raymond James is comfortable with the relative safety of the dividend and expects a total return modestly exceeding the dividend yield over the next 12-18 months. Market Perform (MP3) The security is expected to perform generally in line with the S&P 500 over the next 12 months and could potentially be used as a source of funds for more highly rated securities. Underperform (MU4) The security is expected to underperform the S&P 500 or its sector over the next six to 12 months and should be sold. Suspended (S) The security's rating and price target have been suspended temporarily. This action may be due to market events that made coverage impracticable or to comply with applicable regulations or firm policies in certain circumstances. When a security's research coverage has been suspended, the previous rating and price target are no longer in effect for this security, and they should not be relied upon.

RJL (Canada) Definitions: Strong Buy (SB1) The security is expected to appreciate and produce a total return of at least 15% and outperform the S&P/TSX Composite Index over the next six to 12 months. Outperform (MO2) The security is expected to appreciate and outperform the S&P/TSX Composite Index over the next 12-18 months. Market Perform (MP3) The security is expected to perform generally in line with the S&P/TSX composite Index over the next 12 months and could potentially be used as a source of funds for more highly rated securities. Underperform (MU4) The security is expected to underperform the S&P/TSX Composite Index or its sector over the next six to 12 months and should be sold. Suspended (S) The security's rating and price target have been suspended temporarily. This action may be due to market events that made coverage impracticable or to comply with applicable regulations or firm policies in certain circumstances or may otherwise have a perceived conflict of interest. When a security's research coverage has been suspended, the previous rating and price target are no longer in effect for this security, and they should not be relied upon.

	Coverage Universe F	Rating Distribution*	Investment Banking Relationships		
	RJA	RJL	RJA	RJL	
Strong Buy and Outperform (Buy)	60%	64%	20%	31%	
Market Perform (Hold)	37%	31%	14%	17%	
Underperform (Sell)	3%	4%	0%	0%	

^{*} Columns may not add to 100% due to rounding.

RJA Suitability Ratings (SR)

Medium Risk/Income (M/INC) Lower to average risk equities of companies with sound financials, consistent earnings, and dividend yields above that of the S&P 500. Many securities in this category are structured with a focus on providing a consistent dividend or return of capital. Medium Risk/Growth (M/GRW) Lower to average risk equities of companies with sound financials, consistent earnings growth, the potential for long-term price appreciation, a potential dividend yield, and/or share repurchase program. High Risk/Income (H/INC) Medium to higher risk equities of companies that are structured with a focus on providing a meaningful dividend but may face less predictable earnings (or losses), more leveraged balance sheets, rapidly changing market dynamics, financial and competitive issues, higher price volatility (beta), and potential risk of principal. Securities of companies in this category may have a less predictable income stream from dividends or distributions of capital. High Risk/Growth (H/GRW) Medium to higher risk equities of companies in fast growing and competitive industries, with less predictable earnings (or losses), more leveraged balance sheets, rapidly changing market dynamics, financial or legal issues, higher price volatility (beta), and potential risk of principal. High Risk/Speculation (H/SPEC) High risk equities of companies with a short or unprofitable operating history, limited or less predictable revenues, very high risk associated with success, significant financial or legal issues, or a substantial risk/loss of principal.

RJL Suitability Ratings

RJL has developed a proprietary algorithm for risk rating individual securities. The algorithm utilizes data from multiple vendors, and all data is refreshed at least monthly. Accordingly, suitability ratings are updated monthly. The suitability rating shown on this report is current as of the report's published date. In the event that a suitability rating changes after the published date, the new rating will not be reflected until the analyst publishes a subsequent report.

International Disclosures

For clients of RJA: Any foreign securities discussed in this report are generally not eligible for sale in the United States unless they are listed on a U.S. exchange. This report is being provided to you for informational purposes only and does not represent a solicitation for the purchase or sale of a security in any state where such a solicitation would be illegal. Investing in securities of issuers organized outside of the United States, including ADRs, may entail certain risks.

The securities of non-U.S. issuers may not be registered with, nor be subject to, the reporting requirements of the U.S. Securities and Exchange Commission. There may be limited information available on such securities. Investors who have received this report may be prohibited in certain states or other jurisdictions from purchasing the securities mentioned in this report. Please ask your RJA financial advisor for additional details and to determine if a particular security is eligible for purchase in your state.

For clients of RJFS: This report was prepared and published by Raymond James and is being provided to you by RJFS solely for informative purposes. Any person receiving this report from RJFS should direct all questions and requests for additional information to their RJFS financial advisor.

For clients of RJL: In the case where there is Canadian analyst contribution, the report meets all applicable IIROC disclosure requirements. RJL is a member of the Canadian Investor Protection Fund.

For clients of RJFI: This report is prepared for and distributed by RJFI, and any investment to which this report relates is intended for the sole use of the persons to whom it is addressed, being persons who are Eligible Counterparties or Professional Clients as described in the FCA rules or persons described in Articles 19(5) (Investment professionals) or 49(2) (High net worth companies, unincorporated associations, etc.) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended) or any other person to whom this promotion may lawfully be directed. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons and may not be relied upon by such persons and is, therefore, not intended for private individuals or those who would be classified as retail clients.

For clients of RJIS: This report is prepared for and distributed by RJIS, and is for the use of professional investment advisers and managers and is not intended for use by retail clients.

For purposes of the FCA requirements, this report is classified as independent with respect to conflict of interest management. RJFI and RJIS are authorised and regulated by the FCA.

For clients of RJEE: This report is prepared for and distributed by RJEE, and any investment to which this report relates is intended for the sole use of the persons to whom it is addressed, being persons who are Eligible Counterparties or Professional Clients as described in "Code Monetaire"

et Financier" and Reglement General de l'Autorite des Marches Financiers. It is not intended to be distributed or passed on, directly or indirectly, to any other class of persons and may not be relied upon by such persons and is, therefore, not intended for private individuals or those who would be classified as retail clients.

For recipients in Brazil: This is a strictly privileged and confidential communication between Raymond James & Associates and its selected clients. This communication contains information addressed only to specific individuals in Brazil and is not intended for distribution to, or use by, any person other than the named addressee. This communication (i) is provided for informational purposes only, (ii) should not be construed in any manner as any solicitation or offer to buy or sell any investment opportunities or any related financial instruments, and (iii) should not be construed in any manner as a public offer of any investment opportunities or any related financial instruments. If you are not the named addressee, you should not disseminate, distribute, or copy this communication. Please notify the sender immediately if you have mistakenly received this communication.

The investments analyzed in this report may not be offered or sold to the public in Brazil. Accordingly, the investments in this report have not been and will not be registered with the Brazilian Securities and Exchange Commission (Comissão de Valores Mobiliários, the "CVM"), nor have they been submitted to the foregoing agency for approval. Documents relating to the investments in this report, as well as the information contained therein, may not be: (i) supplied to the public in Brazil, as the offering of investment products is not a public offering of securities in Brazil; nor (ii) used in connection with any offer for subscription or sale of securities to the public in Brazil.

For clients in Australia: Despite anything in this report to the contrary, this report is prepared for and distributed in Australia by RJFI with the assistance of RJA, and RJA at times will act on behalf of RJFI. This report is only available in Australia to persons who are "wholesale clients" (within the meaning of the Corporations Act 2001 (Cth)) and is supplied solely for the use of such wholesale clients and shall not be distributed or passed on to any other person. You represent and warrant that if you are in Australia, you are a "wholesale client". This research is of a general nature only and has been prepared without taking into account the objectives, financial situation, or needs of the individual recipient. RJFI and RJA do not hold an Australian financial services license. RJFI is exempt from the requirement to hold an Australian financial services license under the Corporations Act 2001 (Cth) in respect of financial services provided to Australian wholesale clients under the exemption in ASIC Class Order 03/1099 (as continued by ASIC Corporations (Repeal and Transitional) Instrument 2016/396). RJFI is regulated by the UK FCA under UK laws, which differ from Australian laws. RJA is acting on behalf of RJFI with respect to distribution and communications related to this report.

For clients in New Zealand: In New Zealand, this report is prepared for and may only be distributed by RJFI to persons who are wholesale clients pursuant to Section 5C of the New Zealand Financial Advisers Act 2008.

Proprietary Rights Notice

By accepting a copy of this report, you acknowledge and agree as follows:

This report is provided to clients of Raymond James only for your personal, noncommercial use. Except as expressly authorized by Raymond James, you may not copy, reproduce, transmit, sell, display, distribute, publish, broadcast, circulate, modify, disseminate, or commercially exploit the information contained in this report, in printed, electronic, or any other form, in any manner, without the prior express written consent of Raymond James. You also agree not to use the information provided in this report for any unlawful purpose.

This report and its contents are the property of Raymond James and are protected by applicable copyright, trade secret or other intellectual property laws (of the United States and other countries). United States law, 17 U.S.C. Sec. 501 et. seq., provides for civil and criminal penalties for copyright infringement. No copyright claimed in incorporated U.S. government works.

- © 2020 Raymond James Financial, Inc. All rights reserved.
- © 2020 Raymond James & Associates, Inc.
- © 2020 Raymond James Ltd., Member Canadian Investor Protection Fund