

November 16, 2023

## **Tracking the Junior Golds**

### **Catalysts and updated sector valuations**

Our view: Gold has rebounded from six-month lows to once again test the \$2,000/oz level, but junior gold valuations have barely noticed and remain depressed vs. 2020/2021 levels. We continue to see significant value in the group, however realizing that value will depend on how the M&A market evolves, access to construction funding, and equity market support for ongoing exploration and development. We highlight 2023/2024 exploration, study and construction catalysts for over 120 covered and uncovered companies starting on page 10.

#### **Key Takeaways:**

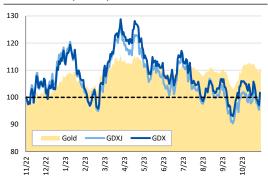
- What rally? While gold and silver have gained 7% / 12% since recent lows in early October, the precious metals explorers and developers we track continue to trade lower, now at an average \$26/oz, down ~40% from \$46/oz earlier in 2023 with gold at similar levels, and well off 2020 highs over \$80/oz. On a P/NAV basis, we estimate a consensus average of ~0.32x NAV, down ~40% from levels seen in summer 2022. The junior universe we follow has seen a ~5% average price decline over the last 12 months, underperforming gold by ~15%, in line with the performance of the GDXJ index.
- Near-term studies and updates are expected from MFG (1H24), RGD (1Q24), PDI (4Q23), CKG (2H24), GGD (4Q23), RUP (2Q24), PRB (1H24), NUAG (1Q24), LGD (1H24), ITR (2024), TLG (1Q24), TAU (3Q24), ME (2H24), DSV (1H24), VZLA (2024)
- Significant resource updates are expected from AMX (1Q24), AZM (4Q23), DC (2024), TAU (2Q24), LR (4Q23), IAU (2024), ABRA (4Q23), WRLG (2024) ECR (2024), GTWO (4Q23)
- 2024 graduates to production include BGL, ADT1, GMIN, ARTG, MOZ (pending acquisition) and AOT. See our recent ramp-up report highlighting stock performance ahead of and during commissioning and early production.
- The gap between early and late stage developers continues to grow. Valuations have held up best for developers and explorers with higher quality projects, able to attract what we still see as limited available capital from public markets, which could continue to put pressure on exploration/development budgets in 2024. Companies we track in construction have outperformed earlier-stage peers YTD, especially those with production in 2024.
- M&A continues to loom, waiting for direction. The recent MOZ takeout announcement notwithstanding, producers in general have not (yet?) broadly taken advantage of lower developer valuations. If fund flows into the sector remain constrained, we believe that smaller-scale / earlier stage projects with limited (or expensive) access to capital could be increasingly targeted by relatively cash-rich producers to backfill portfolios.
- We continue to focus on high-quality, advanced projects in good jurisdictions either in construction or getting close and highlight GMIN, ARTG, SKE and OSK as favoured names on that basis.

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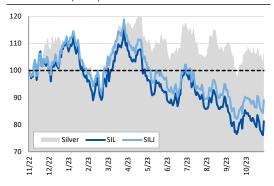
#### Junior gold valuations at \$26/oz



#### Gold vs. GDX, GDXJ, TTM



Silver vs. SIL, SILJ, TTM

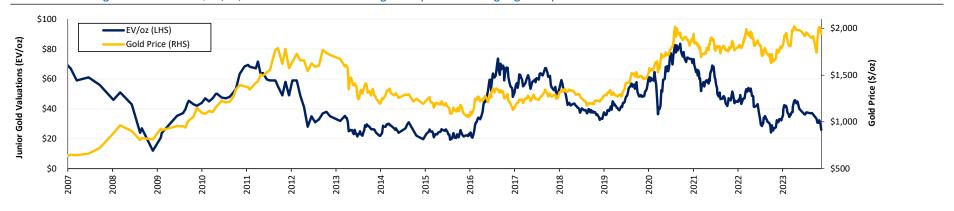


Source: FactSet, Company Reports, RBC Capital Markets



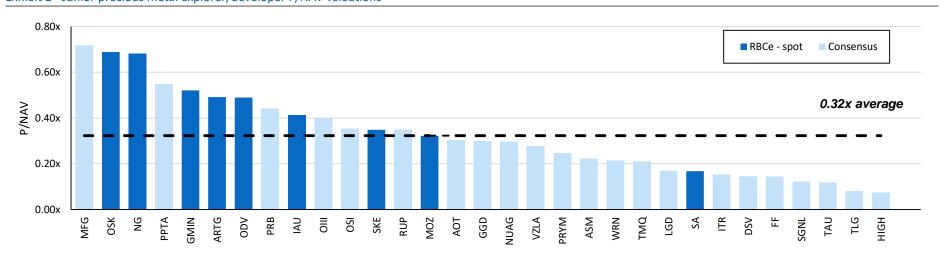
## **Key charts / relative valuation**

Exhibit 1 - Junior gold valuations at \$26/oz, down ~40% from 2023 highs despite the stronger gold tape



Source: Company reports, Bloomberg, FactSet, RBC Capital Markets

Exhibit 2 - Junior precious metal explorer/developer P/NAV valuations



Source: FactSet, RBC Capital Markets estimates



Exhibit 3 - Project NPV/Capex ratio at \$1,600, \$1,800 and \$2,000/oz Au

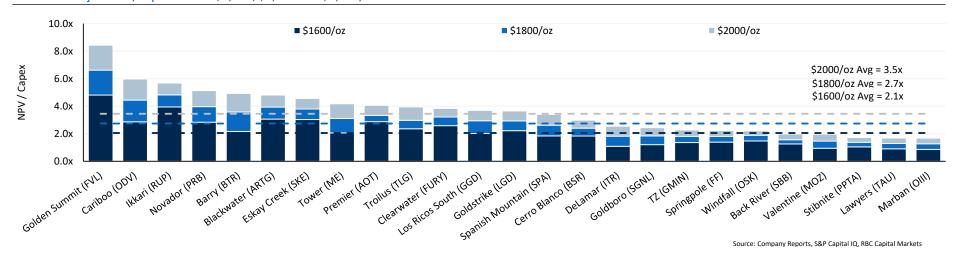
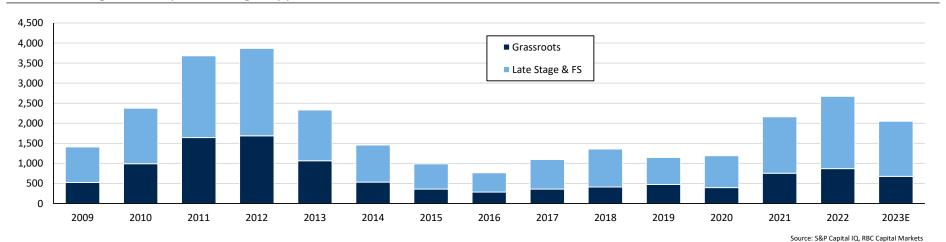


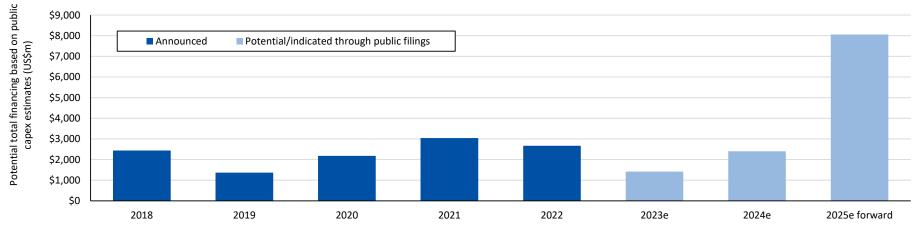
Exhibit 4 - Junior gold/silver exploration budgets by year



Source: Sar Capital IQ, Noe Capital Walkets



Exhibit 5 - Announced and potential future project financing



Source: Company Reports, S&P Capital IQ, Bloomberg, RBC Capital Markets

Exhibit 6 - Junior precious metal equity financing by quarter

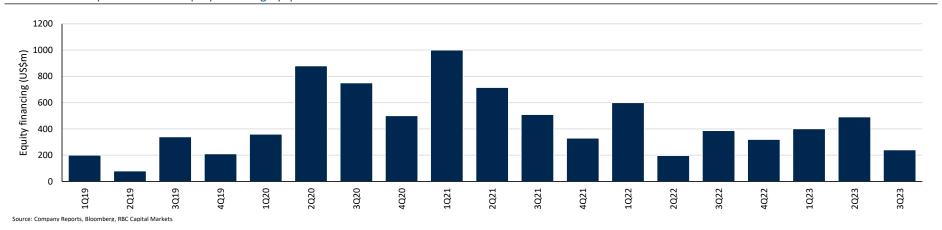
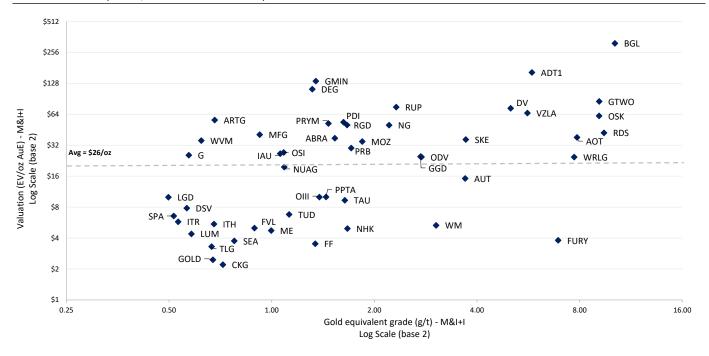


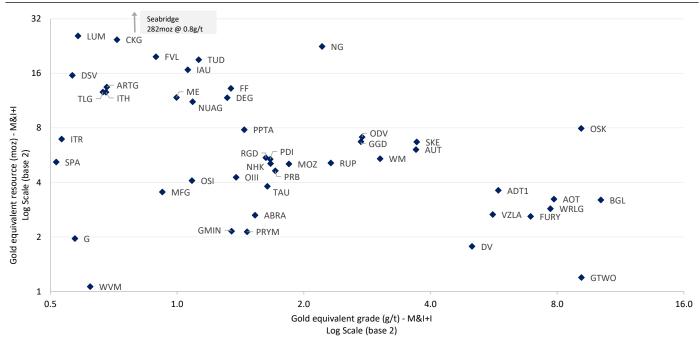


Exhibit 7 - Developer EV/oz valuations vs. AuEq Grade



Source: Company reports, FactSet, RBC Capital Markets

Exhibit 8 - Junior resources size vs. grade



Source: Company reports, FactSect, RBC Capital Markets



## **RBC Junior Mining Watch List – Pre-Resource Stage**

Pre-Resource							
Company	Ticker - Exch	Price (\$/sh)	TTM Perf.	Mkt. Cap US\$m	EV US\$m	Working capital US\$m	Area of Major Exploration
Amex Exploration	AMX-CA	C\$1.20	(43%)	90	80	10	Quebec
Angus Gold	GUS-CA	C\$0.48	(25%)	17	13	4	Ontario
Aurion Resources	AU-CA	C\$0.42	(16%)	40	24	9	Finland
Azimut Exploration	AZM-CA	C\$0.82	38%	49	36	10	Quebec
Collective Mining	CNL-CA	C\$3.84	90%	152	137	14	Colombia
Dakota Gold	DC-US	\$2.41	(33%)	207	177	30	South Dakota
Eskay Mining	ESK-CA	C\$0.34	(73%)	45	37	3	British Columbia
Goliath Resources	GOT-CA	C\$0.76	(47%)	53	47	7	British Columbia
Great Pacific Gold	FSX-CA	C\$0.55	47%	34	23	10	British Columbia
Japan Gold	JG-CA	C\$0.08	(74%)	13	9	4	Japan
New Found Gold	NFG-CA	C\$4.79	1%	625	600	22	Newfoundland
Onyx Gold	ONYX-CA	C\$0.20	-	5	3	2	Yukon / Ontario
Puma Exploration	PUMA-CA	C\$0.12	(38%)	12	11	1	New Brunswick
Rackla Metals	RAK-CA	C\$0.13	(50%)	5	3	2	Yukon
Scottie Resources	SCOT-CA	C\$0.18	(26%)	35	31	4	British Columbia
Snowline Gold	SGD-CA	C\$4.00	44%	399	373	26	Yukon
U.S. GoldMining	USGO-US	\$6.10	-	76	62	14	Alaska
Western Alaska Minerals	WAM-CA	C\$0.96	(64%)	19	19	2	Alaska

Source: Company reports, FactSet, Bloomberg, RBC Capital Markets, priced at market close 15 Nov. AuEq based on spot metals prices; working capital adj. for subsequent capital raises



## **RBC Junior Mining Watch List – Resource Stage**

	Ticker	Price	TTM	Mkt. Cap	EV	Contained (	000 oz) - AuEg	Grade (AuEq g/t)	Valuation (A	uEg EV/oz)	Working capital	Area of
Company		(\$/sh)	Perf.	US\$m	US\$m	M&I	M&I+I	M&I+I	M&I	M&I+I	US\$m	Major Exploration
Augusta Gold	G-CA	C\$0.64	(66%)	26	49	1,670	1,961	0.57	29	25	(24)	Nevada
Auteco Minerals	AUT-AU	A\$0.03	(40%)	111	96	2,349	6,163	3.75	41	16	15	Ontario
Aftermath Silver	AAG-CA	C\$0.21	(32%)	31	36	2,987	4,061	1.76	12	9	0	Chile/Peru
Cartier Resources	ECR-CA	C\$0.08	(17%)	17	15	750	2,553	2.93	20	6	2	Quebec
Cassiar Gold	GLDC-CA	C\$0.26	(55%)	18	11	-	1,390	1.14	n.a.	8	7	Guyana
Defiance Silver	DEF-CA	C\$0.10	(41%)	16	12	3,452	4,099	0.57	4	3	4	Mexico
Dolly Varden Silver	DV-CA	C\$0.83	38%	154	137	587	1,793	5.08	234	77	16	British Columbia
G2 Goldfields	GTWO-CA	C\$0.78	23%	114	95	220	1,194	9.13	431	79	19	Guyana
Galway Metals	GWM-CA	C\$0.25	(75%)	14	9	1,386	3,159	3.06	6	3	5	New Brunswick / Quebe
Gold Terra Resource	YGT-CA	C\$0.07	(59%)	14	8	109	1,748	2.00	71	4	6	NWT
GoldMining	GOLD-CA	C\$1.15	(9%)	148	88	15,869	32,630	0.68	6	3	15	South America / Alaska
HighGold Mining	HIGH-CA	C\$0.28	(46%)	18	6	961	1,054	7.82	7	6	12	Alaska
Klondike Gold	KG-CA	C\$0.08	(35%)	10	10	468	580	0.64	21	17	1	Yukon
Maple Gold Mines	MGM-CA	C\$0.05	(70%)	11	7	256	1,518	1.09	26	4	5	Quebec
Mayfair Gold	MFG-CA	C\$2.25	79%	161	153	3,383	3,540	0.92	45	43	8	Ontario
Nighthawk Gold	NHK-CA	C\$0.38	7%	48	27	3,388	5,079	1.67	8	5	18	NWT
Predictive Discovery	PDI-AU	A\$0.23	0%	297	297	4,144	5,375	1.66	72	55		Guinea
Prime Mining	PRYM-CA	C\$1.56	5%	179	134	1,435	2,151	1.48	94	62	44	Mexico
Radisson Mining Resources	RDS-CA	C\$0.21	62%	43	39	501	950	9.43	78	41	3	Quebec
Reunion Gold	RGD-CA	C\$0.41	2%	313	294	3,007	5,475	1.62	98	54	19	French Guiana / Guyana
RosCan Gold	ROS-CA	C\$0.11	(39%)	30	30	923	1,104	1.05	32	27	0	Mali
Talisker Resources	TSK-CA	C\$0.26	(68%)	15	9	33	1,666	6.36	270	5	5	British Columbia
Tudor Gold	TUD-CA	C\$0.86	(25%)	137	128	14,531	19,138	1.13	9	7	9	British Columbia
Vanstar Mining Resources	VSR-CA	C\$0.37	13%	15	14	493	1,302	0.87	28	10	2	Quebec
Vizsla Silver	VZLA-CA	C\$1.39	(11%)	210	180	1,297	2,707	5.73	139	66	30	Mexico
West Red Lake Gold Mines	WRLG-CA	C\$0.52	10%	70	64	1,653	2,864	7.71	38	22	7	Ontario
Westhaven Gold	WHN-CA	C\$0.20	(49%)	20	17	651	826	5.95	26	20	3	British Columbia
White Gold	WGO-CA	C\$0.21	(42%)	25	22	1,153	2,095	1.86	19	10	3	Yukon
						Γ	Average		69	25	Ī	
						_	Median		29	13	†	

Source: Company reports, FactSet, Bloomberg, RBC Capital Markets, priced at market close 15 Nov. AuEq based on spot metals prices; working capital adj. for subsequent capital raises



## **RBC Junior Mining Watch List – PEA/PFS stage**

Completed PEA/Pre-Feas	ibility Study											
	Ticker	Price	TTM	Mkt. Cap	EV	Contained (	000 oz) - AuEq	Grade (AuEq g/t)	Valuation (A	uEq EV/oz)	Working capital	Area of
Company	0	(\$/sh)	Perf.	US\$m	US\$m	M&I	M&I+I	M&I+I	M&I	M&I+I	US\$m	Major Exploration
AbraSilver Resource	ABRA-CA	C\$0.28	(36%)	113	105	2,605	2,667	1.55	40	39	8	Argentina
Bonterra Resources	BTR-CA	C\$0.18	(45%)	17	14	1,240	3,022	5.67	11	5	2	Quebec
Chesapeake Gold	CKG-CA	C\$1.55	(22%)	68	52	21,831	24,667	0.72	2	2	16	Mexico
Discovery Silver	DSV-CA	C\$0.66	(56%)	190	145	14,427	16,474	0.60	10	9	44	Mexico
Excellon Resources	EXN-CA	C\$0.10	(81%)	6	15	3,057	3,853	1.97	5	4	(9)	Mexico/USA
First Mining Gold	FF-CA	C\$0.13	(43%)	75	50	9,378	13,222	1.34	5	4	5	Ontario / Quebec / Newfoundlan
Freegold Ventures	FVL-CA	C\$0.36	(32%)	109	103	12,011	19,747	0.89	9	5	6	Alaska
Fury Gold Mines	FURY-CA	C\$0.48	(2%)	50	13	1,377	2,597	6.92	9	5	8	Quebec / Nunavut
Gogold Resources	GGD-CA	C\$1.25	(35%)	297	200	2,923	6,802	2.77	68	29	98	Mexico
i-80 Gold	IAU-CA	C\$1.84	(34%)	418	452	7,712	16,775	1.06	59	27	75	Nevada
Integra Resources	ITR-CA	C\$0.99	(58%)	50	47	6,084	6,988	0.54	8	7	3	Idaho
International Tower Hill	ITH-CA	C\$0.52	(30%)	74	72	11,461	12,588	0.68	6	6	2	Alaska
Liberty Gold	LGD-CA	C\$0.25	(41%)	61	42	3,538	4,317	0.50	12	10	17	Utah / Idaho
Lumina Gold	LUM-CA	C\$0.37	16%	102	110	21,187	25,885	0.59	5	4	(8)	Ecuador
Luminex Resources	LR-CA	C\$0.17	(17%)	22	16	2,474	7,004	0.65	6	2	3	Ecuador
Moneta Gold	ME-CA	C\$0.84	(50%)	75	61	4,265	11,761	1.00	14	5	13	Ontario
New Pacific Metals	NUAG-CA	C\$2.14	(30%)	287	232	9,052	11,527	1.13	26	20	54	Bolivia
O3 Mining	OIII-CA	C\$1.59	10%	86	42	2,808	4,269	1.38	15	10	13	Quebec
Probe Gold	PRB-CA	C\$1.31	1%	156	142	3,547	4,636	1.71	40	31	14	Quebec
Revival Gold	RVG-CA	C\$0.33	(45%)	27	20	2,423	4,613	1.05	8	4	8	Idaho
Rupert Resources	RUP-CA	C\$3.01	(31%)	443	402	3,860	5,120	2.32	104	78	40	Finland
Seabridge Gold	SEA-CA	C\$15.95	(3%)	970	1,214	144,957	287,905	0.79	8	4	96	British Columbia / NWT
Spanish Mountain Gold	SPA-CA	C\$0.13	(24%)	34	29	4,781	5,186	0.52	6	6	5	British Columbia
Thesis Gold	TAU-CA	C\$0.42	(60%)	57	36	3,371	3,823	1.65	11	9	19	British Columbia
Treasury Metals	TML-CA	C\$0.14	(63%)	15	21	2,181	2,965	0.92	10	7	5	Ontario
Troilus Gold	TLG-CA	C\$0.33	(31%)	55	42	10,913	12,666	0.67	4	3	13	Quebec
Wallbridge Mining	WM-CA	C\$0.09	(60%)	58	24	3,053	5,404	3.03	8	4	29	Quebec
West Vault Mining	WVM-CA	C\$0.88	(3%)	37	33	981	1,066	0.62	34	31	4	Nevada
							Average		19	13	I	
						Ī	Median		9	6	1	

Source: Company reports, FactSet, Bloomberg, RBC Capital Markets, priced at market close 15 Nov. AuEq based on spot metals prices; working capital adj. for subsequent capital raises



## **RBC Junior Mining Watch List – FS Stage/construction**

	Ticker	Price	TTM	Mkt. Cap	EV	Contained (	000 oz) - AuEq	Grade (AuEq g/t)	Valuation (A	uEq EV/oz)	Working capital	Area of
Company	0	(\$/sh)	Perf.	US\$m	US\$m	M&I	M&I+I	M&I+I	M&I	M&I+I	US\$m	Major Exploration
Artemis Gold	ARTG-CA	C\$5.96	34%	859	802	13,136	13,465	0.68	61	60	52	British Columbia
Ascot Resources	AOT-CA	C\$0.40	0%	162	115	1,930	3,237	7.87	60	36	58	British Columbia
Adriatic Metals	ADT1-GB	\$1.69	2%	602	589	3,580	3,783	6.07	164	156	-	Bosnia / Serbia
Bellevue Gold	BGL-AU	A\$1.44	54%	1,057	1,057	1,700	3,200	10.16	622	330	0	Western Australia
Bluestone Resources	BSR-CA	C\$0.18	(75%)	20	16	3,250	3,282	1.57	5	5	2	Guatemala
De Grey Mining	DEG-AU	A\$1.24	(9%)	1,645	1,448	8,055	11,727	1.31	180	123	192	Western Australia
G Mining Ventures	GMIN-CA	C\$1.17	76%	381	280	2,102	2,152	1.35	133	130	97	Brazil
Marathon Gold	MOZ-CA	C\$0.70	(18%)	208	231	3,960	5,060	1.84	58	46	53	Newfoundland
NovaGold Resources	NG-CA	C\$5.29	(27%)	1,287	1,203	19,504	22,500	2.21	62	53	130	Alaska
Osisko Development	ODV-CA	C\$3.85	(39%)	236	173	4,425	7,151	2.77	39	24	43	Canada / Mexico / US
Osisko Mining	OSK-CA	C\$2.59	(29%)	710	485	4,076	7,946	9.12	119	61	282	Quebec
Osino Resources	OSI-CA	C\$0.94	8%	107	113	2,940	4,090	1.08	38	28	2	Namibia
Paramount Gold Nevada	PZG-US	\$0.33	(9%)	20	25	28,760	36,906	1.04	1	1	(5)	Idaho
Perpetua Resources	PPTA-CA	C\$4.35	39%	86	76	6,507	7,827	1.45	12	10	7	Idaho
Rio2	RIO-CA	C\$0.17	21%	32	19	4,757	9,514	0.62	4	2	5	Chile
Signal Gold	SGNL-CA	C\$0.14	(53%)	22	32	2,581	3,065	3.86	12	10	7	Nova Scotia
Skeena Resources	SKE-CA	C\$5.06	(33%)	325	296	6,136	6,327	3.63	48	47	29	British Columbia
						ſ	Average		95	66		
							Median		58	46		

Source: Company reports, FactSet, Bloomberg, RBC Capital Markets, priced at market close 15 Nov. AuEq based on spot metals prices; working capital adj. for subsequent capital raises



## **Catalyst Tracker - Pre-resource and resource stage**

Pre-Resource				
	Ticker -	Resource	Economic	Upcoming
Company	Exch	Update	Study	Catalysts
Amex Exploration	AMX-CA	1Q24		Ongoing drill results; Initial Perron resource estimate (1Q24)
Angus Gold	GUS-CA			Ongoing drilling and regional prospecting
Aurion Resources	AU-CA			Ongoing drill results via 100% owned and JV properties
Azimut Exploration	AZM-CA	2023		Ongoing drilling; Initial resource at Elmer (2023); Exploration and advancement of lithium partnerships (ongoing)
Collective Mining	CNL-CA			Assays from ME (4Q23); Drilling at Trap and between Olympus/Apollo (4Q23); Drilling at Plutus (1Q24)
Dakota Gold	DC-US	1Q24		Ongoing drilling; Compliant resource at Richmond Hill (1Q24)
Eskay Mining	ESK-CA			Results from 6,500m 2023 drilling program (ongoing)
Goliath Resources	GOT-CA			Ongoing exploration
Great Pacific Gold	FSX-CA			Drilling/exploration across recently acquired projects (ongoing)
Japan Gold	JG-CA			Ongoing exploration and project evaluation
New Found Gold	NFG-CA			Results from 500,000m drilling program (ongoing); start of geological/metallurgical studies (4Q23)
Onyx Gold	ONYX-CA			Ongoing exploration
Puma Exploration	PUMA-CA			6,000m in 2023 drilling, 50,000m planned from 2024-2026, ongoing prospecting and trenching
Rackla Metals	RAK-CA			Assays pending from 3,000m 2023 drill program, initial drilling on the SER property in 2024
Snowline Gold	SGD-CA			Outstanding 2023 drilling results from 22,000m program (ongoing)
U.S. GoldMining	USGO-US			Ongoing exploration

Completed Resource				
	Ticker -	Resource	Economic	Upcoming
Company	Exch	Update	Study	Catalysts
Augusta Gold	G-CA		4Q23	Reward project FS (4Q23); Ongoing drilling; Bullfrog permitting and studies
Auteco Minerals	AUT-AU	✓	4Q23	Drill results from acquired Green Bay project (~40,000m); Updated resource/studies (3Q24)
Aftermath Silver	AAG-CA	✓	4Q23	Challacollo PEA(4Q23); Ongoing Met/PEA work at Berenguela (2024); ongoing exploration
Cartier Resources	ECR-CA		✓	Ongoing exploration; Updated resource estimate and PEA
Cassiar Gold	GLDC-CA			Ongoing exploration results, potential resource update (1H24), new 2024 exploration program (2Q24)
Defiance Silver	DEF-CA			Updated resource for San Acacio; further drilling at Lucita; Tepal trial date and conclusion (4Q23)
Dolly Varden Silver	DV-CA			~55,000m of drilling (ongoing); metallurgical testing at Dolly Varden and Homestake ridge (ongoing)
G2 Goldfields	GTWO-CA		4Q23	Updated Oko resource (4Q23); Ongoing drilling
Galway Metals	GWM-CA	2024	2024	Resource expansion drilling at Clarence Stream; PEA and resource update (2024)
Gold Terra Resource	YGT-CA			+10,000m drill program at the Con Mine property with focus on the Campbell Shear
GoldMining	GOLD-CA	✓	✓	Advancement of La Mina (ongoing)
HighGold Mining	HIGH-CA	4Q23		Results from the 8,000m drill program; Resource update for Ellis Zone of JT project (2023)
Klondike Gold	KG-CA			Ongoing exploration
Maple Gold Mines	MGM-CA			Model updates and target prioritization at Douay & Joutel; 5,000m drill program at Eagle (4Q23)
Mayfair Gold	MFG-CA	✓	1H24	Updated resource/initial footwall resource and PFS planned (1H24); Ongoing regional exploration
Nighthawk Gold	NHK-CA	✓	✓	Ongoing drilling and permitting
Predictive Discovery	PDI-AU	✓	4Q23	Ongoing drilling at Bankan; ESIA and scoping study (4Q23); Permitting (1H24)
Prime Mining	PRYM-CA	✓		Ongoing drill results at Los Reyes via 60,000m program (2023)
Radisson Mining Resources	RDS-CA	✓		Results from Phase I 10,000m drill program; Till sampling results; Upcoming studies
Reunion Gold	RGD-CA	✓	YE23/1Q24	PEA for the Oko West Project (YE23/1Q24 ); Ongoing drilling
RosCan Gold	ROS-CA			20,000m drilling program
Talisker Resources	TSK-CA	✓		Start of test production at Bralorne (2Q24); Ore sale and trucking agreement (4Q23); Ongoing exploration
Tudor Gold	TUD-CA	✓		Ongoing exploration, advancement towards a PEA
Vanstar Mining Resources	VSR-CA	✓		Drilling results from the completed 10,000m Nelligan drill program
Vizsla Silver	VZLA-CA	4Q23	2024	90,000m drill program (ongoing), Panuco resource update (4Q23); Panuco PEA (2024)
West Red Lake Gold Mines	WRLG-CA			Infill and regional drilling, leading to re-started studies, and an eventual re-start decision for Madsen
Westhaven Gold	WHN-CA	✓	✓	Completion of 25,000m drill program; Resource update (2024)
White Gold	WGO-CA	✓		Ongoing drilling across the property and regional exploration work

Source: Company reports, RBC Capital Markets, check denotes recent update/release



# Catalyst Tracker - PEA/PFS/FS/Construction stage

Completed PEA/Pre-Feasibility Study				
	Ticker -	Resource	Economic	Upcoming
Company	Exch	Update	Study	Catalysts
AbraSilver Resource	ABRA-CA	4Q23	1Q24	Updated Diabillos resource and JAC initial resource(4Q23); PFS (1Q24); Ongoing drilling/optimization work
Bonterra Resources	BTR-CA			~10,000m of regional exploration results; Partnership with Osisko Mining; Permitting of Bachelor Mill to 1,800tpd
Chesapeake Gold	CKG-CA	✓	2H24	Completion of Phase 3 met work (1H24); Metates PFS (2H24); Submission of permitting (2H24)
Discovery Silver	DSV-CA	✓	1H24	Cordero FS and potential project financing (1H24); Construction permits and decision (2H24)
Excellon Resources	EXN-CA			Ongoing exploration at Silver City, and Kilgore, Strategic analysis of Platosa (ongoing)
First Mining Gold	FF-CA	✓	✓	Submission of final EA and EIS for Springpole (1H24); Optimization of Duparquet project post PEA (ongoing)
Freegold Ventures	FVL-CA	✓	2024	Ongoing drilling; updated Golden Summit PEA (2024)
Fury Gold Mines	FURY-CA			Drilling at Eau Claire, Percival Prospect; ESJV geochemical studies
Gogold Resources	GGD-CA	✓	4Q23	Los Ricos South PFS (4Q23);Project advancement at Los Ricos North post PEA
i-80 Gold	IAU-CA	4Q23	4Q23	Gold only updated resource and economic analysis for Ruby Deeps (2023); Ruby Hill resource update (2024);
Integra Resources	ITR-CA	✓	✓	DeLamar Plan of Operations (4Q23); DeLamar FS (2024); Wildcat engineering studies (2024); ongoing drilling
International Tower Hill	ITH-CA			Ongoing advancement of Livengood
Liberty Gold	LGD-CA	4Q23	1H24	Updated Black Pine and Goldstrike resource (2023); Ongoing metallurgy testing; Black Pine PFS (1H24)
Lion One Metals	LIO-CA			Mill ramp up to 300tpd (4Q23); expansion to 500tpd (mid-2024); ongoing drilling results
Lumina Gold	LUM-CA	✓	✓	Resource definition and geotechnical drilling (1Q24)
Luminex Resources	LR-CA	4Q23		Ongoing drilling at Cuyes West (ongoing); Updated resource from Condor North (4Q23)
Moneta Gold	ME-CA	2024	2024	35,000m infill/exploration drilling (ongoing); OP PFS and UG PEA (2H24); Initial Project Description (4Q23)
New Pacific Metals	NUAG-CA	✓	1Q24	Silver Sands PFS (1Q24); Carangas PEA (1Q24); ongoing exploration
O3 Mining	OIII-CA	✓		Optimization studies and decision on Malartic H resource conversion (3Q23); Marban FS commencement (1H24)
Probe Gold	PRB-CA	✓	1H24	Updated Novador PEA (1H24); ongoing drilling
Revival Gold	RVG-CA	✓	✓	Drilling results; Ongoing advancement of Beartrack-Arnett; FS (mid-2025)
Rupert Resources	RUP-CA	4Q23	2Q24	Resource update (4Q23); PFS (2Q24); EIA report (2024); Ongoing project optimization; Ongoing drilling
Spanish Mountain Gold	SPA-CA			Ongoing drilling; Environmental assessment (ongoing)
Seabridge Gold	SEA-CA		1Q24	JV partnership (2024); Drilling across project portfolio (2023); Courageous Lake updated technical report (1Q24)
Thesis Gold	TAU-CA	2Q24	3Q24	50,000m drilling (ongoing); Updated Lawyers resource and initial Ranch resource (2Q24); Updated PEA (3Q24)
Treasury Metals	TML-CA			Ongoing exploration; Project optimization and feasibility study (ongoing)
Troilus Gold	TLG-CA	1Q24	1Q24	Open pit only feasibility study and mineral reserves (1Q24)
Wallbridge Mining	WM-CA	✓	✓	Resource expansion drilling at Fenelon & Martiniere (2023)
West Vault Mining	WVM-CA		✓	Ongoing advancement of Hasbrouck

Completed Feasibility/In Construction				
	Ticker -	Resource	Economic	Upcoming
Company	Exch	Update	Study	Catalysts
Artemis Gold	ARTG-CA		2H24	Construction updates (ongoing); commissioning (2Q24); First gold (2H24); Phase II study (early-2024)
Ascot Resources	AOT-CA			First gold (1Q24); commercial production (2H24); 14,000m exploration drilling (2023)
Adriatic Metals	ADT1-GB	✓		First concentrate production (4Q23), ramp up (2024)
Bellevue Gold	BGL-AU			Production ramp up (ongoing); 2H24 production and cost guidance (post-commissioning)
Bluestone Resources	BSR-CA			Outcome of strategic review process (ongoing); Advancement of the Cerro Blanco (ongoing)
De Grey Mining	DEG-AU	✓	✓	Completion of financing (2H24); Project approval (2H24)
G Mining Ventures	GMIN-CA			Plant commissioning and first gold (2Q24); Commercial production (2H24); potential M&A (ongoing)
Marathon Gold	MOZ-CA			Ongoing construction; pending acquisition by Cailbre (CXB CN)
NovaGold Resources	NG-CA			Updates from Donlin partnership (ongoing); Results from trade-off studies (ongoing)
Osino Resources	OSI-CA	✓	✓	Project financing (4Q23); front-end engineering, long lead orders (1Q24); Construction start 1Q24
Osisko Mining	OSK-CA			Finalization of IBA (2023); Restart of regional drilling (2024); infill drilling at Windfall (ongoing)
Osisko Development	ODV-CA	✓	✓	Processing ramp up at Trixie (ongoing); Drilling at Big Hill (ongoing); Permitting at Cariboo (1Q24)
Paramount Gold Nevada	PZG-US			Advancing permitting (ongoing) expecting final permits by YE24
Perpetua Resources	PPTA-CA			Final EIS and draft ROD (4Q23); Final ROD (1Q24); Financing and ancillary permits (mid-2024); Construction (2H24)
Rio2	RIO-CA	✓	✓	EIA appeal (2023); Project financing (ongoing); Fenix project construction start (4Q23)
Signal Gold	SGNL-CA			Permitting and exploration ongoing at Goldboro
Skeena Resources	SKE-CA			Project financing (2024), Snip resource update (2024), ongoing exploration

Source: Company reports, RBC Capital Markets, check denotes recent update/release



## **Companies mentioned**

Artemis Gold Inc. (TSXV: ARTG CN; C\$5.96; Outperform; Speculative Risk) G Mining Ventures Corp. (TSXV: GMIN CN; C\$1.19; Outperform; Speculative Risk) Marathon Gold Corporation (TSX: MOZ CN; C\$0.70; Outperform; Speculative Risk) Osisko Development Corp. (TSXV: ODV CN; C\$3.86; Sector Perform; Speculative Risk) Osisko Mining Inc. (TSX: OSK CN; C\$2.59; Outperform; Speculative Risk)

Skeena Resources Limited (TSX: SKE CN; C\$2.59; Outperform; Speculative Risk)

### Skeena resources Limited (13x. 3kL CN, C33.00, Outperform, Speculative risi

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