

# CORPORATE PRESENTATION OCTOBER 2024

CKG: TSX.V CHPGF: OTCQX

# **Cautionary Notes**



#### **Cautionary Note Regarding Forward-Looking Statements**

This presentation contains "forward-looking statements" within the meaning of Canadian securities legislation. Such forward-looking statements include, without limitation, statements with respect to: the economic and project parameters presented in Chesapeake Gold Corp.'s (the "**Company**" or "**Chesapeake**") preliminary economic assessment titled "Metates Sulphide Heap Leach Project, Phase 1, Amended NI 43-101 Technical Report, Preliminary Economic Assessment" dated January 13, 2023 with an effective date of December 15, 2022 (the "**PEA**"), including internal rate of return, all-in sustaining costs, net present value, and other costs; projections of production; and economic information including the price of gold and silver; the strategic plans, timing and expectations for the Company's exploration and drilling programs at the Company's mineral properties; estimates from metallurgical testing results; expectations related to the Company's proprietary oxidative leach technology (the "**Technology"**); mineralization estimates and grades for drill intercepts; geological information projected from sampling results; potential quantities and grades of target zones; permitting for various work; the preparation of a pre-feasibility study in respect to high grade areas and size of veins projected from underground sampling results and drilling results at the Company's mineral properties; and the Company's future growth potential.

Such forward-looking statements or information are based on a number of assumptions, which may prove to be incorrect. Assumptions have been made regarding, among other things: the reliability of mineralization estimates; the accuracy of assay and metallurgical test results; the geological interpretations from drilling results; the performance of available laboratory and other related services; the conditions in general economic and financial markets; the future price of gold and silver; availability and costs of mining equipment and skilled labour; timing and amount of expenditures related to drilling programs; future operating costs; the historical basis for current estimates of potential quantities and grades of target zones; and the effects of regulation by governmental agencies.

The actual results could differ materially from those anticipated in these forward-looking statements as a result of risk factors including, without limitation: the timing and content of work programs; results of exploration activities and development of mineral properties; the interpretation and uncertainties of drilling and testing results and other geological data; the Technology's results; receipt, maintenance and security of permits and mineral property titles; environmental and other regulatory risks; project cost overruns or unanticipated costs and expenses; availability of funds; failure to delineate potential quantities and grades of the target zones based on historical data; general market and industry conditions; and other risk factors as described under "Risk Factors" in the Company's Annual Information Form for the year ended December 31, 2023.

Forward-looking statements are based on the expectations and opinions of the Company's management on the date the statements are made. The assumptions used in the preparation of such statements, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date the statements were made. The Company undertakes no obligation to update or revise any forward-looking statements included in this presentation if these beliefs, estimates and opinions or other circumstances should change, except as otherwise required by applicable law.

# **Cautionary Notes**



#### **Cautionary Note Regarding Mineral Resource Estimates**

The PEA was prepared and filed by the Company and can be accessed under the Company's SEDAR+ profile at <u>www.sedarplus.ca</u> or on the Company's website at https://chesapeakegold.com/. The PEA was prepared in accordance with National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("**NI 43-101**") and the Canadian Institute of Mining, Metallurgy and Petroleum ("**CIM**") – CIM Definition Standards on Mineral Resources and Mineral Reserves, adopted by the CIM Council, as amended (the "**CIM Standards**"). NI 43-101 is a rule developed by the Canadian Securities Administrators, which established standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. The terms "mineral reserve", "proven mineral reserve" and "probable mineral reserve" are Canadian mining terms as defined in accordance with NI 43-101 and the CIM Standards. In addition, the terms "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are defined in accordance with NI 43-101 and the CIM Standards. In vestors are cautioned not to assume that all or any part of mineral deposits in these categories will ever be converted into mineral resources. "Inferred mineral resources" have a great amount of uncertainty as to their economic and legal feasibility. It is reasonably expected that the majority of inferred mineral resources could be upgraded to indicated mineral resources with continued exploration. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or pre–feasibility studies, except in very limited circumstances. Investors are cautioned not to assume that all or any part of an inferred mineral resource is economically or legally mineable.

The mineral resource figures referred to in this presentation are estimates and no assurances can be given that the indicated levels of gold and silver will be produced. Such estimates are expressions of judgment based on commodity price assumptions, metallurgical testwork experience and related estimates, mining experience, analysis of drilling results and cost estimates, and industry knowledge and practices. Valid estimates made at a given time may significantly change when new information becomes available. By their nature, mineral resource estimates are imprecise and depend, to a certain extent, upon statistical inferences which may ultimately prove unreliable. Any inaccuracy or future reduction in such estimates could have a material adverse impact on the Company.

The PEA explores the viability of a two-stage heap leach process to recover gold and silver from intrusive and intrusive breccia materials that are parts of the Metates mineral resource. The PEA has significantly lower initial capital, superior investment return indicators and a very different approach to the treatment of the mineralization at Metates in comparison to the Company's 2016 PFS (as defined below). The reduced plant throughput lends flexibility to operations in terms of power and water supply, greatly reducing the scope of infrastructure work required for plant development. Operating cash costs per ounce also increased in the PEA as a result of a change to a processing methodology which has relatively higher reagent consumptions to oxidize and recover gold and silver at a reduced recovery, but with the benefit of over US\$3 billion in total capital reduction. The 2016 PFS realizes zinc by-product credits which are not included in the process plan for the PEA.

#### **Cautionary Note Regarding 2016 PFS**

The Company completed a pre-feasibility study titled "Metates Gold-Silver Project, NI 43-101 Technical Report, Updated Preliminary Feasibility Study" filed May 3, 2016 with an effective date of April 29, 2016 (the "**2016 PFS**"). The 2016 PFS has been superseded by the PEA, is no longer current and is not being relied upon by the Company.

Gary Parkison, CPG, Vice President Development and Alberto Galicia, P. Geo., Vice President Exploration of the Company, are each a "qualified person" within the meaning of NI 43-101 and have reviewed and approved the scientific and technical information relating to the Company's mineral properties disclosed in this presentation.

### **Chesapeake Gold**

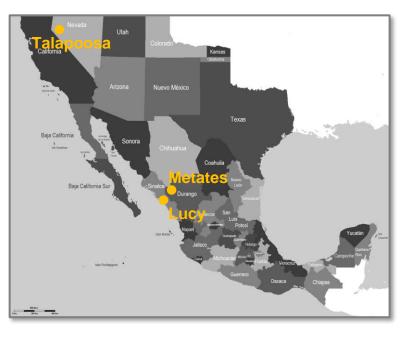
### A Balanced Approach to Growth and Value Creation

#### Metates – A Re-Invented Story

- **Size & Leverage:** One of the world's largest undeveloped gold-silver deposits<sup>1</sup>
  - M&I ~17Moz Au (0.57 g/t) & 423Moz Ag (14.3 g/t) <sup>2</sup>
- Inf. ~2Moz Au (0.47 g/t) & 59Moz Ag (13.2 g/t) <sup>2</sup>
- Higher Grade Core Confirmed in 2022
- Proprietary Oxidative Leach Technology: Achieved up to 74% Gold Recovery in 2024<sup>3</sup>
- Innovative "Green Gold" Technology
- PEA Demonstrates Alternative Development
  - Financeable, deliverable & expandable

#### Expanding Oxide Gold Discovery at the Lucy Project

- 2023 drilling intercepted 6.1g/t gold over 24m from surface<sup>4</sup>
- One of several holes delineating a 700m zone of mineralized skarn
- Favorable Jurisdiction: Mexican team in place for decades with strong community relations
- Well Funded: ~C\$15mm in treasury, low burn rate<sup>5</sup>
- Large Supportive Shareholders: Eric Sprott, Sun Valley and Directors/Management own >40% equity interest
- Compelling Valuation: Trading at >90% discount to development peers on an EV/oz basis
  - 1. Mexico's biggest undeveloped gold deposits Published: Bnamericas -Tuesday, November 24, 2020.
  - 2. Metates updated resource estimate news release dated February 22, 2023.
  - 3. Chesapeake announces metallurgical results update news release dated October 22, 2024.
  - 4. Lucy project exploration news releases dated October 3, 2023 and July 9, 2024.
  - 5. Chesapeake Gold cash position as at June 30, 2024.



#### **Perfect Asset at the Perfect Time**

- ✓ Gold price reaching all-time highs
- Heap leach approach unlocks true mine value and maximizes development approach

✓ A large platform for future growth



### Chesapeake Gold Added to the Nasdaq Metals Focus Silver Miners Index



716.0 M

819.2 M

560.0 M

138.6 M

119.2 M

432.6 M

200.0 M

34.2 M

51.3 M

50.1 M

40.1 M

21.1 M

70.4 M

41.8 M

12.5 M

16.2 M

45 M

CATEGORY OUNCES GRADE (G/T) TONNAGE

100.0

168.0

38.6

86.3

106.0

299.0

98.0

542 M

467 M

361 M

229 M

202 M

160 M

109 M

103 M

101 M

99 M

87 M

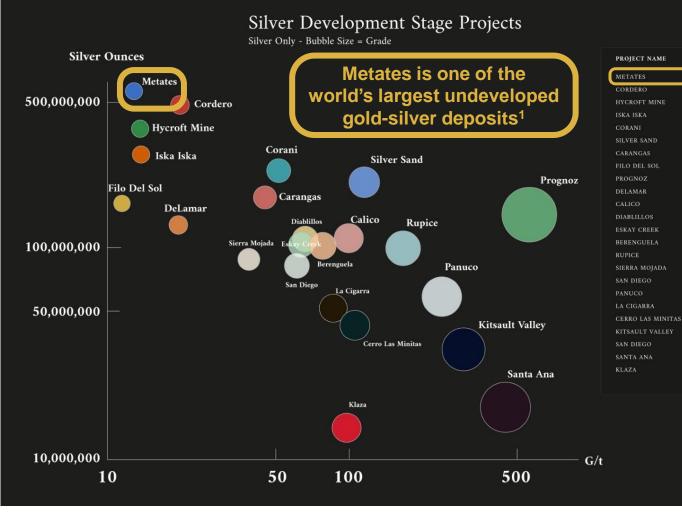
58 M

51 M

30 M

INFERRED 82 M

Chesapeake recently joined its first index, our selection to this silver index is further recognition of our progress and achievements at Metates



1. Mexico's biggest undeveloped gold deposits Published: Bnamericas -Tuesday, November 24, 2020

Source: Mining Visuals (Development stage only, >10g/t silver)

### Metates – A Re-Invented Story Not How You Remember It → Waking A Sleeping Giant



PAST (2016 PFS) <sup>1</sup>		CURRENT (2021 PEA) <sup>2</sup>
TOTAL RESOURCE	M&I ~19Moz Au & 503Moz Ag Contained Inf. ~1Moz Au & 16Moz Ag Contained	M&I ~17Moz Au & 423Moz Ag Contained3Maintains LargeInf. ~2Moz Au & 59Moz Ag Contained3Resource
PROCESSING METHODOLOGY	Flotation / POX Autoclave	Sulphide Heap LeachHeap Leach UnlocksTrue Mine Value
THROUGHPUT	Up to 90ktpd	15ktpd "Starter" Project "Starter" with Expansion Potential
DEVELOPMENT CAPEX	US\$3,496M	US\$359M 90% Decrease to Capex
MINE LIFE	27 Years	31 Years Stable, Long Life, Asset
AVERAGE ANNUAL PRODUCTION	~560Koz Au	~147Koz AuEq Healthy Production Scale
PRE-TAX NPV (5% DCF)	US\$1.8B (Base Case)	US\$1.4B (Base Case) Smaller Project with Robust Margins

#### We are re-inventing Metates as a low capital cost, sulphide heap leach project $\rightarrow$ An Executable Pathway to Production

- 1. "Metates Gold-Silver Project NI 43-101 Technical Report, Updated Preliminary Feasibility Study" filed May 3, 2016 with an effective date of April 29, 2016.
- 2. "Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment" with an effective date of December 15, 2022, and dated January 13, 2023.
- 3. Metates updated resource estimate news release dated February 22, 2023.

### Metates 2021 PEA

**Financial Summary** 



- LOM Operating Cash Flow: C\$3.5bn
- Avg. Operating Cash Flow: C\$110mm
- Highlight's sulphide heap-leach economic potential
  - Significant opportunity for Chesapeake to invoke a paradigm shift in the precious metals industry and enhance the project economics of additional sulphide orebodies globally



LOM Metrics (Base Case)							
Initial Capex US\$mm 359							
Sustaining (incl. Closure) Capex	US\$mm	176					
Throughput	K tpd	15					
Gold Grade	g/t	0.76					
Silver Grade	g/t	15.71					
Gold Recovery	%	70					
Silver Recovery	%	75					
Mine Life	(years)	31					
Avg. Gold Production (Yr. 1-15)	K oz	112					
Avg. Silver Production (Yr. 1-15)	K oz	2,493					
Avg. Au-Ag Eq. Production (Yr. 1-15)	K oz	147					
LOM Operating Strip Ratio	W:O	2.22					
LOM Cash Costs	US\$/oz Au	686					
LOM AISC	US\$/oz Au	749					

#### **Pre-Tax Economic Indicators**

Metal Price Assumptions	Base Case
Gold (US\$/oz.)	\$1,600
Silver (US\$/oz.)	\$22
NPV @ 5% (US\$mm) <sup>1</sup>	US\$1,427
IRR (%)	35%
Payback (years)	2.5

Source: Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023. 1 USD = 1.25 CAD.



## Nature has been transforming refractory sulphide-hosted precious metals deposits into easily extractable oxide deposits for 100s of millions of years

- Chesapeake's proprietary technology<sup>1</sup> applies nature's process but reduces the timeline to months
- Globally, one-in-four gold ounces or ~25% of the total in situ gold reserves and resources are trapped in a refractory form<sup>2</sup>
- Gold grades on refractory-type deposits (~2.25g/t) are ~86% higher than the nonrefractory-type (1.21g/t)<sup>2</sup>



US\$1.5T Global Refractory Market<sup>2</sup>

~2.6Boz of In Situ Gold Globally Transforming the Global Refractory Market



Chesapeake recently consolidated its ownership of the technology



Chesapeake has a royalty-free technology with a portfolio of patents and patent applications



Chesapeake is the authority on this technology with the in-house expertise and nearly a decade of testwork and R&D experience



The technology has been tested successfully on two sites, and Chesapeake is actively seeking other precious metal refractory deposits

<sup>1.</sup> Intellectual property rights are owned by Alderley Gold Corp., a wholly-owned subsidiary of Chesapeake Gold Corp.

<sup>2.</sup> Motta, G., Polcyn, M., & Saragosa, E. (2021, March 23). Refractory Gold Ores: Challenges and Opportunities for a Key Source of Growth. McKinsey & Company. https://www.mckinsey.com/industries/metals-and-mining/our-insights/refractory-gold-ores-challenges-and-opportunities-for-a-key-source-of-growth

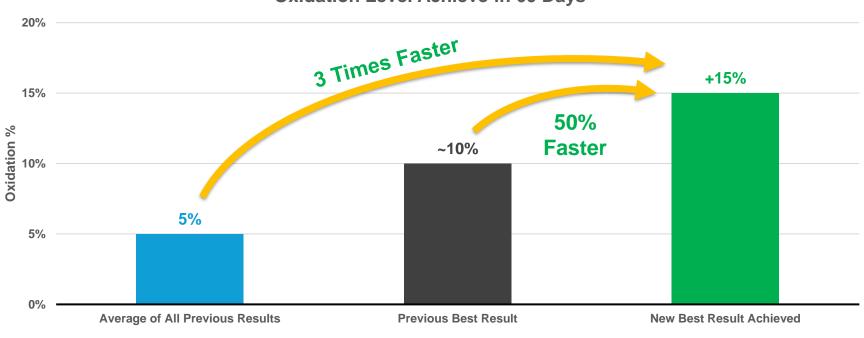
### Oxidative Leach Technology Encouraging Results from Metallurgical Testwork<sup>1</sup>



Metallurgical work has continued to investigate various parameters to accelerate the oxidation kinetics and the oxidation rate of the sulphide leach technology

The new conditions are showing very encouraging oxidation rates:

- The samples have achieved an oxidation level of 15% to 16% in just 60 days
- This is approximately 3 times faster than the average of our previous cases and 50% faster than our last best rate of oxidation



**Oxidation Level Achieve in 60 Days** 

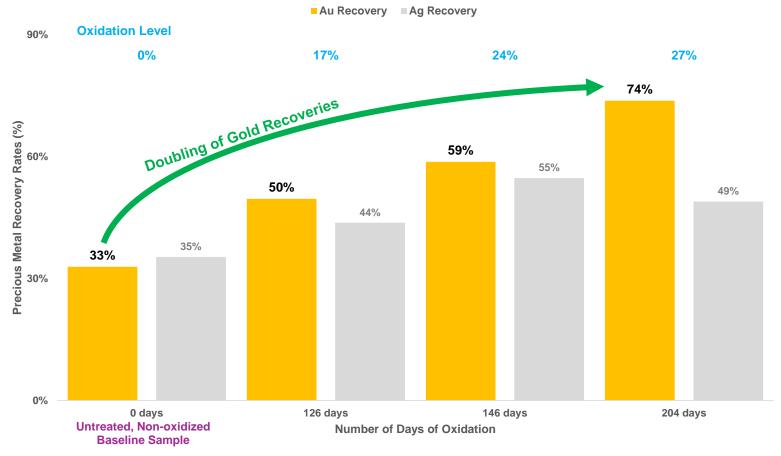
1. Chesapeake announces metallurgical testwork update news release dated September 6, 2023.

### **Oxidative Leach Technology** Encouraging Results from Metallurgical Testwork<sup>1</sup>



# Metallurgical test work achieved gold recovery rates exceeding 70%, providing verification that our proprietary oxidative leach technology is working as planned

 Various durations of oxidative leach were performed, and longer durations of oxidative leach led to higher oxidation levels, which were also positively correlated to higher gold recoveries

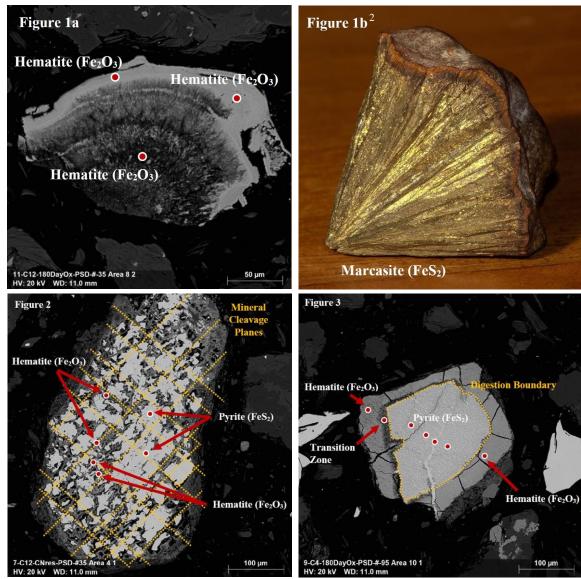


1. Chesapeake announces metallurgical results update news release dated October 22, 2024.

### **Oxidative Leach Technology**

### Insights from the Metates Mineralogical Investigation<sup>1</sup>





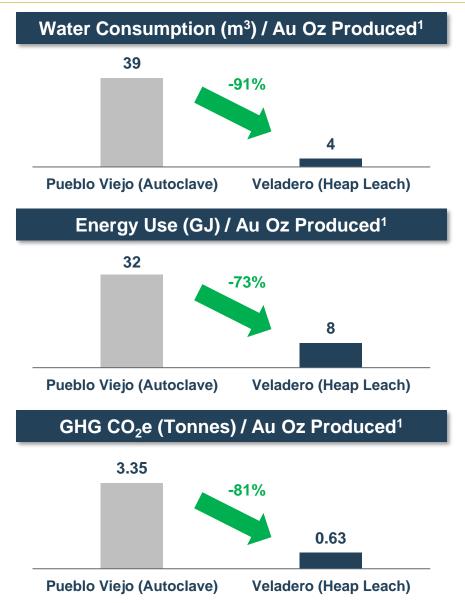
1. Chesapeake announces metallurgical testwork update news release dated September 6, 2023.

2. Marcasite. (2023, September 1). Encyclopædia Britannica. https://www.britannica.com/science/marcasite#/media/1/364089/119889.

### **Oxidative Leach Technology**

### Reducing Water Consumption, Energy Use and GHG Emissions

- Chesapeake's technology is applied in a heap leach environment, where the chemical reactions perform a majority of the work to oxidize and then liberate the precious metals
- This process will produce "Green Gold" when compared to other conventional processes:
  - Utilizes less water;
  - Reduces power consumption;
  - Curtails GHG emissions; and
  - Eliminates the need for a tailings facility
- The benefits of this technology should lay the groundwork for a potentially simplified permitting process

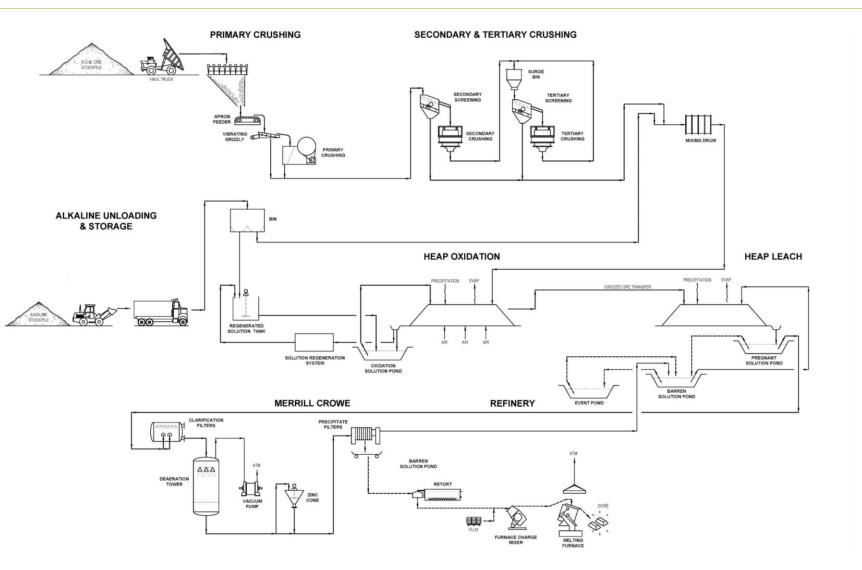




### Metates 2021 PEA

### Simple Flowsheet





Source: "Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment" with an effective date of December 15, 2022, and dated January 13, 2023.

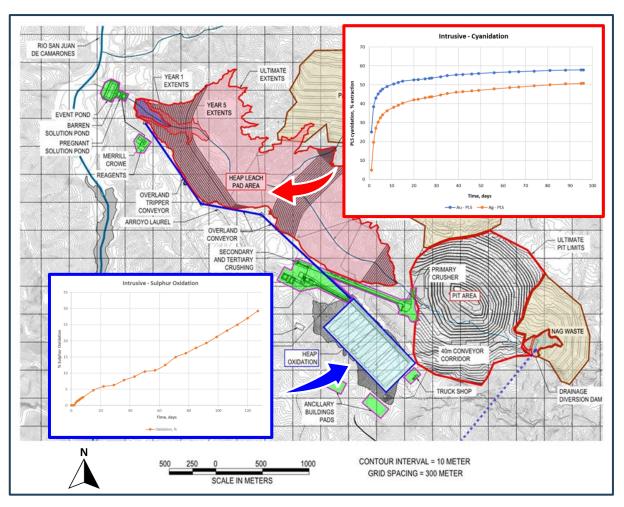


#### Infrastructure:

- Compact Layout
- All Infrastructure onsite
- Location identified for Ph 2 oxidation pad
- Final Pad Sized for 100% of Intrusive

#### Proof of Concept Results:

- Sulphide Oxidative Leach
  - 30% oxidized in 128 days
- Cyanide Leach Precious Metal Recovery<sup>1</sup>
  - Fast initial gold and silver extraction
  - Gold Recovery almost 60%
  - Silver Recovery over 50%



Source: "Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment" with an effective date of December 15, 2022, and dated January 13, 2023. 1. Chesapeake provides metallurgical update for Metates news release dated September 13, 2022.

### Lucy Project – New Gold Discovery An Expanding High-Grade Near-Surface Gold Bearing Skarn<sup>1</sup>



- Lucy project in Sinaloa, Mexico is located within 5km of a paved highway and near high voltage powerlines
- The recent 2,649m drilling has delineated a northeast trending gold-bearing skarn of at least 700m in strike length with significant oxide mineralization starting at surface, remaining open along strike in both directions and at depth<sup>1</sup>

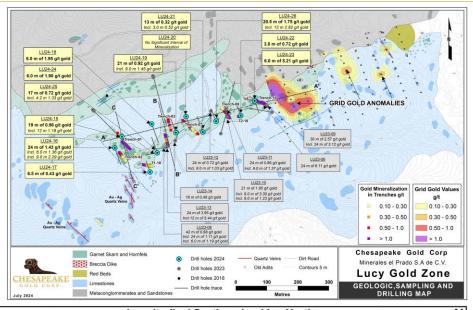


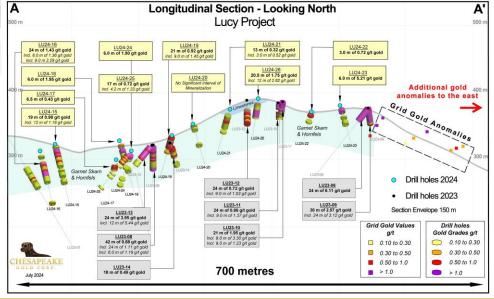
#### Assay Highlights from Lucy Drilling Campaigns<sup>1</sup>

Hole ID	From (m)	To (m)	Width (m)*	Au (g/t)
LU23-06	0	24	24	6.11
LU23-13	3	27	24	3.95
Including	12	24	12	5.44
LU23-09	0	30	30	2.57
Including	0	24	24	3.12
LU24-23	0	6	6	5.21
LU24-26	9.5	30	20.5	1.75
Including	18	30	12	2.82

\*Drill intercepts are not considered representative of the true thickness of the gold mineralization

1. Lucy project exploration news releases dated October 3, 2023 and July 9, 2024.

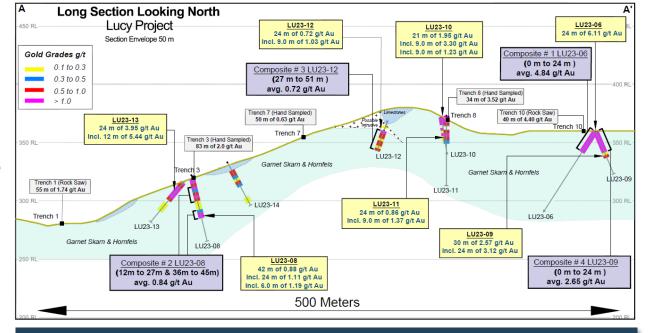




#### 1. Lucy project metallurgical news release dated February 13, 2024.

### Lucy Project – New Gold Discovery Up to 97% Gold Recoveries Achieved in Preliminary Met. Work<sup>1</sup>

- The initial metallurgical test work consisted of 4 holes selected across the Lucy mineralized corridor; each hole was then sampled as a unique composite
- The results of this initial test work support that the oxide gold mineralization is readily treatable with a standard CN tank leach in a Carbon in Leach/Carbon in Pulp type process
- Up to 97% gold recoveries were demonstrated at Lucy, and in all cases, maximum extractions for gold were achieved at 24 hours
- A Phase 2 exploration program is already underway at the Lucy project
- This new campaign includes 10 HQ drill holes totalling 900m to extend known mineralization to the southwest and delineate the dip direction by drilling untested mineralized trenches within the 500m gold-bearing skarn corridor



#### Preliminary CN Metallurgical Highlights from the 2023 Lucy Drilling Campaign<sup>1</sup>

Composite #	Source Material	Lithology	Gold Grade Au g/t	Silver Grade Ag g/t	Gold Extraction at 24hrs Au %	Silver Extraction at 24hrs Ag %
1	LU23-06 (0m to 24m)	Skarn	4.85	2.10	97%	74%
2	LU23-08 (12m to 27m & 36m to 45m)	Skarn / Skarn-Hornfels	0.99	3.57	91%	40%
3	LU23-12 (27m to 51m)	Skarn-Hornfels / Hornfels	0.96	0.64	93%	69%
4	LU23-09 (0m to 24m)	Skarn / Skarn-Hornfels	2.99	1.07	97%	70%



Significantly Undervalued



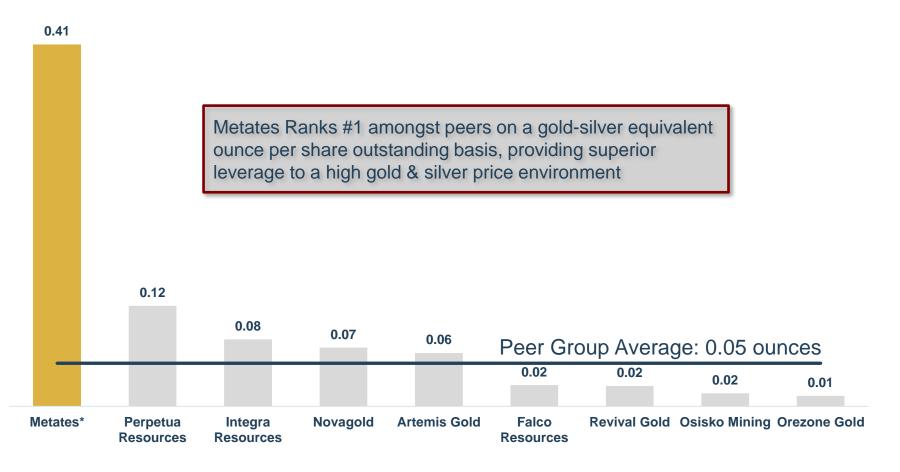
### Enterprise Value / Au-Ag Equivalent oz (US\$)



Source: Company Disclosures as at September 5, 2024. Gold-Silver Equivalent calculated at US\$\$1,600/oz Au, US\$22/oz Ag. \* Excludes Talapoosa resource.



### AuEq. Ounces per Common Share Outstanding



Source: Company Disclosures as at September 5, 2024. Gold-Silver Equivalent calculated at US\$\$1,600/oz Au, US\$22/oz Ag. \* Excludes Talapoosa resource.

### **Chesapeake Gold**

### Summary and Upcoming Catalysts



Metates – Durango, Mexico



One of the world's largest undeveloped goldsilver deposits<sup>1</sup>



High-grade core confirmed in 2022



Long-life asset with 31 years



Low-cost project build that is financeable and deliverable

Scaleable operation with expansion potential

#### Lucy Project - Sinaloa, Mexico



...

New oxide gold discovery starting at surface Mineralized skarn has been delineated over 700m and is still open along strike and at depth<sup>2</sup>

#### Chesapeake Gold Corp.

Well funded with C\$15M in the treasury<sup>3</sup>

Supportive Shareholders: Eric Sprott, Sun Valley & Management own >40% equity interest

Compelling Valuation: Trading at <\$3.00/oz on an EV/oz basis



Faster Oxidative solution Identified in 2023



Unlocks global refractory gold deposits



Less capital-intensive technology



Reduces the environmental footprint of assets (i.e. water, power, CO<sub>2</sub>, no tailings)

A. **Generates Green Gold** 



Has a competitive advantage as it's a novel technology

#### Upcoming Catalysts



Preparation of the next phase of Oxidative Leach work, including large diameter tests



Prioritizing drill targets to expand the Lucy mineralized footprint



Commencing the preparation of a prefeasibility study



Environmental baseline work ongoing for the submission of Metates permitting application



1. Mexico's biggest undeveloped gold deposits Published: Bnamericas -Tuesday, November 24, 2020.

2. Lucy project exploration news releases dated October 3, 2023 and July 9, 2024.

3. Chesapeake Gold cash position as at June 30, 2024.



# Appendix

### METATES

### Mexico's Largest Undeveloped Gold and Silver Deposit<sup>1</sup>

1. Mexico's biggest undeveloped gold deposits Published: Bnamericas -Tuesday, November 24, 2020

CKG: TSX.V | CHPGF: OTCQX

### Metates Waking A Sleeping Giant



- One of the world's largest undeveloped goldsilver deposits<sup>1,2,3</sup>
  - Well-defined resource
    - 921.2Mt in the Measured and Indicated Mineral Resource category with 16.8Moz gold (0.57 g/t) and 423Moz silver (14.3 g/t)
    - A further 139.5Mt in the Inferred Mineral Resource category with 2.1Moz gold (0.47 g/t) and 59Moz silver (13.2 g/t)
- Initially target higher grade portion of the Metates massive intrusive as sulphide heap leach mine
  - 195mt @ 0.76 g/t Au, 13.3 g/t Ag<sup>3</sup>
  - 15k tpd starter project; expandable
- Lower capital and processing costs from heap leach production returns superior project economics





1. Mexico's biggest undeveloped gold deposits Published: Bnamericas -Tuesday, November 24, 2020

3. Metates updated resource estimate news release dated February 22, 2023.

<sup>2.</sup> Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023. Gold-Silver Equivalent calculated at US\$\$1,600/oz Au, US\$22/oz Ag.

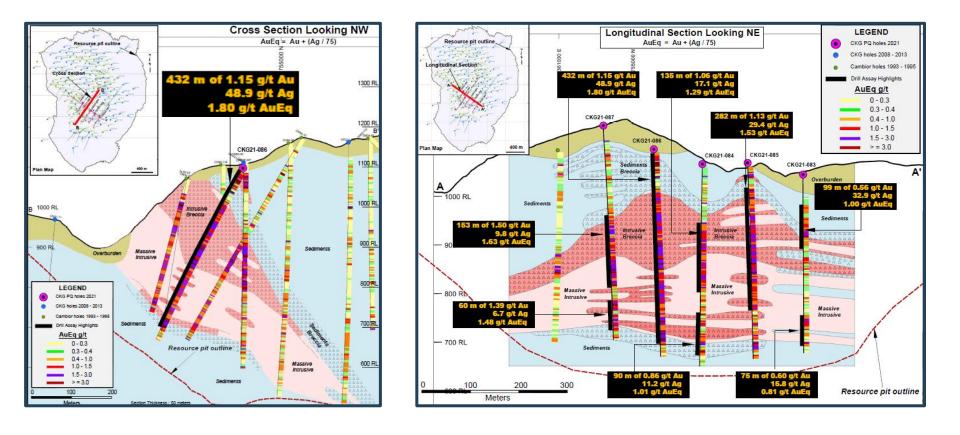
### **Metates**



### **Targeting Higher Grade**

#### 2021/22 drilling confirms higher grade intrusive<sup>1</sup>

• Assay grade and intercepts better than expected, >18% improvement in grade



1. The gold equivalent ("AuEq" or "Gold Eq") value is calculated as follows: Gold Equivalent (g/t) = Gold (g/t) + Silver (g/t) / 75.



- Incorporates all 2021 and 2022 drilling results
- 15.8% increase in gold grade of Intrusive and Intrusive Breccia zone

		Gold Eq. <sup>2</sup>	Gold	Silver	Gold	Silver
Resource Category	Mtonnes	(g/t)	(g/t)	(g/t)	(Moz)	(Moz)
Measured Mineral Resource	31.1	1.10	0.86	18.1	0.86	18.1
Intrusive	19.8	1.27	1.02	18.7	0.65	12.0
Sediment	11.3	0.79	0.57	17.1	0.20	6.2
Indicated Mineral Resource	890.1	0.75	0.75	14.2	15.91	405.1
Intrusive	175.9	0.91	0.74	12.7	4.16	71.9
Sediment	714.2	0.71	0.51	14.5	11.76	333.2
M&I Mineral Resource	921.2	0.76	0.57	14.3	16.77	423.2
Intrusive	195.7	0.94	0.76	13.3	4.81	83.8
Sediment	725.4	0.71	0.51	14.6	11.96	339.4
Inferred Mineral Resource	139.5	0.65	0.47	13.2	2.13	59.0
Intrusive	22.6	0.80	0.67	9.9	0.48	7.2
Sediment	116.9	0.62	0.44	13.8	1.64	51.8

1. Metates updated resource estimate news release dated February 22, 2023.

2. The gold equivalent ("AuEq" or "Gold Eq") value is calculated as follows: Gold Equivalent (g/t) = Gold (g/t) + Silver (g/t) / 74.67, based on gold recovery of 70% and silver recovery of 75%.

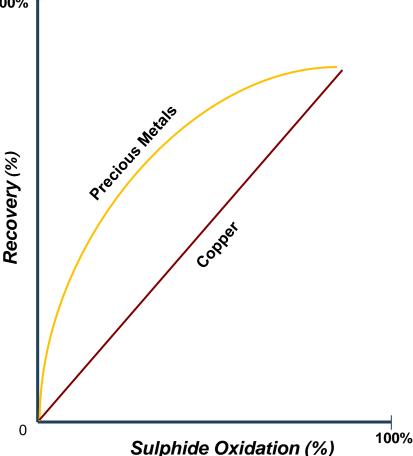
. Illustration for explanation purposes only, does not indicate expected oxidation and recovery relationship for Metates.

### Precious Metal vs Copper Heap Leach Process<sup>1</sup>

- With the oxidation process, a key variable is the relationship between % of sulphides oxidized and final Au / Ag recoveries
  High levels of oxidation required to achieve
  - High levels of oxidation required to achieve economic levels of metal recovery would have meant higher costs due to more time and reagent consumption
- For precious metals locked in sulphides, testing has observed a positive non-linear relationship exists between oxidation and recoveries
  - Versus copper, where % recoveries are generally in line with % oxidation levels

#### Silver

- Test work indicates good silver recoveries
- Silver constitutes a significant amount of Metates' in-situ resource value

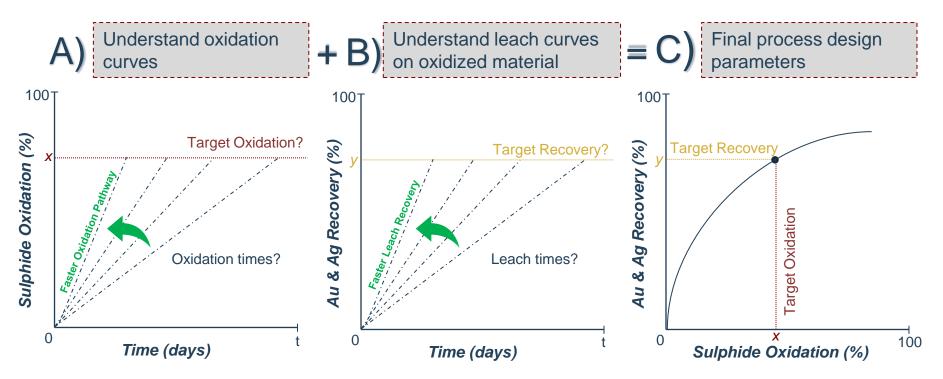




### **Metates Testwork and Future Oxidation Studies**



- Preliminary testing confirms Metates mineralization oxidizes and releases gold and silver enabling metal recoveries in a typical CN / lime Heap Leach
  - Going forward, full test work program with fresh material is planned to determine appropriate operation conditions for prefeasibility study and feasibility study parameters
- Significant testing on various zones to be conducted over 18-24 months to determine target oxidation times and expected precious metal recoveries in an industrial installation



### **Capital Cost Improvements**



Dramatically Lower Capital	
Cost:	Ν
	Ν

. .

- A ~90% reduction in capex when compared to the 2016 PFS
- A smaller expandable 15k tpd 'starter'
- Compact site focused layout
- Power from nearby powerline
- Local water source

Summary of Capital Costs (US\$000	's)
Metates Site:	
Mining Equipment & Mine Development	\$18,713
Crushing & Conveying	\$36,104
Ponds & Pads	\$28,404
Reagent/Regeneration System	\$11,677
Merrill-Crowe & Refinery	\$9,124
Subtotal	\$104,022
Infrastructure:	
General Site/Earthworks/Access Roads	\$106,069
Electric Power	\$7,851
Water Supply	\$7,380
Ancillaries & Buildings	\$11,121
Subtotal	\$132,421
Freight, Taxes & Duties	\$4,060
Total Direct Field Cost	\$240,503
Indirects-EPCM, Commissioning & Spares	\$32,047
Total On Site Constructed Cost	\$272,550
Contingency	\$63,459
First Fills	\$6,000
Owner's Cost	\$17,200
Total Capital Cost	\$359,209

Source: Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023.



	LOM Average Cost US\$/t processed	LOM US\$/Au Oz.
Metates Site		
Mining (including rehandle and equipment lease costs)	\$7.51	\$441.70
Processing (Crushing, Stacking, Oxidation, Leach, Merrill-Crowe)	\$8.05	\$473.65
Site Support	\$1.41	\$82.69
Profit Sharing	\$1.32	\$77.74
Total Operating Cost	\$18.29	\$1,075.78
Royalties (0.5% NSR & 7.5% Gov't EBITDA Royalty)	\$1.45	\$85.35
Doré Treatment Charges	\$0.17	\$10.15
By-Product Credit (Silver)	(\$8.25)	(\$485.31)
Total Cash Cost	\$11.66	\$685.97
Sustaining Capital, Reclamation & Closure	\$1.06	\$62.49
All-In Sustaining Cost ("AISC")	\$12.72	\$748.46

Source: Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023. Note: Cash costs and AISC are non-GAAP financial measures. Please see Cautionary Note Regarding Non-GAAP Measures in July 26, 2021 Chesapeake press release.



Compelling project economics & significant leverage to gold and silver prices

Table 1: C\$mm Pre-Tax NPV <sub>(5%)</sub> Sensitivity Analysis: Au & Ag Prices										
		· ·	Gold Price (US\$/oz)							
		1,400	1,600	1,800	2,000	2,200				
Silver Price (US\$/oz)	20	\$1,005	\$1,345	\$1,685	\$2,025	\$2,365				
	22	\$1,087	\$1,427	\$1,767	\$2,107	\$2,447				
	24	\$1,169	\$1,509	\$1,848	\$2,188	\$2,528				
	26	\$1,250	\$1,590	\$1,930	\$2,270	\$2,610				
	28	\$1,332	\$1,672	\$2,012	\$2,352	\$2,691				

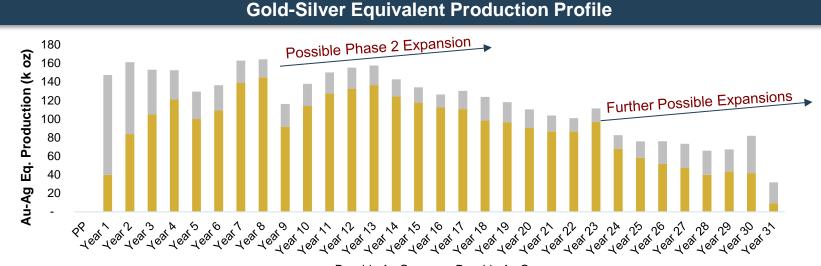
		Gold Price (US\$/oz)					
		1,400	1,600	1,800	2,000	2,200	
	20	28%	33%	38%	42%	47%	
rice oz)	22	30%	35%	40%	45%	49%	
ilver Pric (US\$/oz)	24	33%	38%	43%	47%	52%	
Silve (U:	26	35%	41%	46%	50%	55%	
0)	28	38%	43%	48%	53%	57%	

Source: Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023. 1 USD = 1.25 CAD.

### Metates 2021 PEA

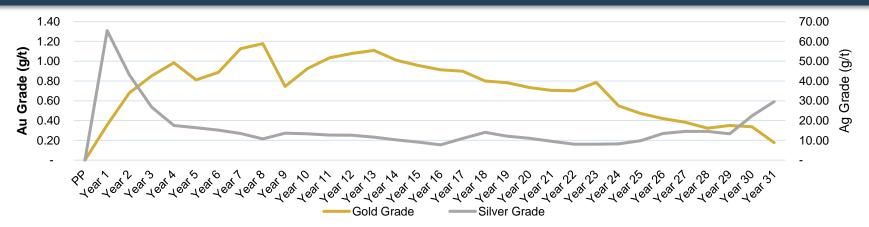
### Phase 1 Production Profile





Payable Au Ozs Payable Ag Ozs

**Gold-Silver Grade Profile** 



Source: Metates Sulphide Heap Leach Project Phase 1, Amended NI 43-101 Technical Report Preliminary Economic Assessment with an effective date of December 15, 2022, and dated January 13, 2023



#### **Management**

**P. Randy Reifel** Executive Chairman, 36 years experience

Jean-Paul Tsotsos Interim Chief Executive Officer, +15 years of experience

Navin Sandhu Interim Chief Financial Officer

**Gary Parkison** VP Development, 38 years experience

**Alberto Galicia** VP Exploration, 20 years experience

#### **Directors**

**P. Randy Reifel** Former Francisco Gold CEO, Glamis and Goldcorp Director

Randy Buffington Former Nevada Copper and Hycroft CEO, Coeur d'Alene, Barrick Gold

Alan Pangbourne Former Chesapeake Gold and Guyana Goldfields CEO; SSR Mining COO; Kinross, BHP

**Doug Flegg** Former Managing Director, Global Mining Sales, BMO Capital Markets

Lian Li International Business Consultant

Chris Falck Chartered Accountant, Independent Consultant

John Perston Consulting Geologist, former Francisco Gold Director





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