Estelle Gold Project

Developing North America's next major mineral trend in Alaska



CM

Critical

Minerals

March 2024 Market Update

26 March 2024 ASX: NVA | OTCQB: NVAAF | FSE: QM3 www.novaminerals.com.au



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Compliance Statements

This Presentation contains references to Mineral Resource Estimates extracted from the Company's ASX announcement dated11 April 2023, titled "Estelle Global Gold MRE Increases to 9.9 Moz Au" (refer Appendix 1). References in this presentation to exploration results have been extracted from the Company's ASX announcements as noted on the relevant pages of this presentation. Nova confirms that it is not aware of any new information or data that materially affects the information included in the original announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

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This announcement has been authorized for release by the Executive Directors

The Estelle Gold Project (85% Owned)

A World Class Asset in Alaska with Significant Upside





Target Minerals Gold, copper & silver Antimony & other critical minerals

State of Alaska mining claims,

streamlined permitting process

Jurisdiction

Alaska, USA



Advanced Project

District Scale

corridor

513km² (200 sq miles)

35km long mineralized

Copen pit truck & shovel Environmental & feasibility Estelle Gold Project • studies commenced



Infrastructure

Long Term Project

Decades of potential

production with over

20 known prospects

80-person camp, 4,000ft airstrip, sample lab, road & power projects underway

Robust Economics NPV_{5%} US\$654m (@ gold price of US\$1,850) IRR 53% Payback <1 year



Multiple Resources

Large IRGS deposits 9.9 Moz Au with 3.4 Moz Au Measured & Indicated



90,000m Drilling World class, thick, high-grade intercepts from surface

Alaska - Tier 1 Mining Region

Close to Anchorage with Infrastructure Solutions in Place

Location

- Located on State of Alaska public lands, 150km northwest of Anchorage
- 513km² of unpatented mining claims
- Alaska has a streamlined permitting process
- The Estelle Gold Project is fully permitted for exploration

Access

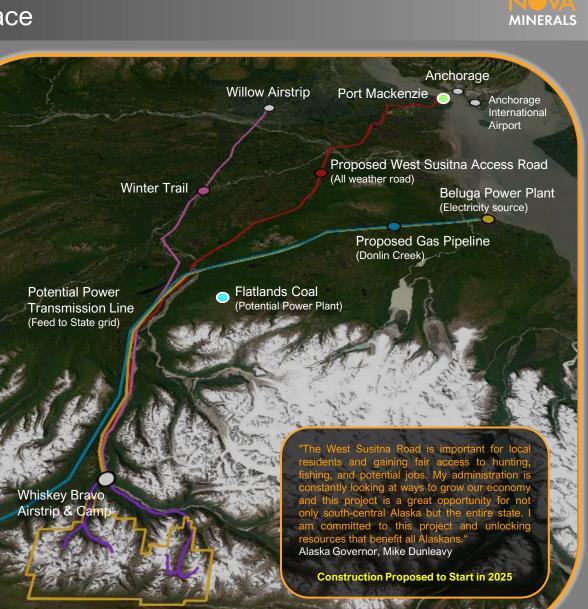
- Short flight from Anchorage or Willow to an all-season air strip
- Winter trail used to transport large and heavy equipment
- Proposed West Susitna Access Road has considerable government and community support
 - All weather road that will link the project to port, rail and road
 - 1st part of the road included in the DoT plan to break ground in 2025
 - AIDEA progressing the remaining portion of the road with studies for permitting to be completed in 2024

Facilities

- 80 person fully winterized camp
- Onsite sample processing facility
- 4,000 foot all season airstrip which can facilitate large capacity DC3 aircraft

ower – Numerous Options Being Investigated for the PFS

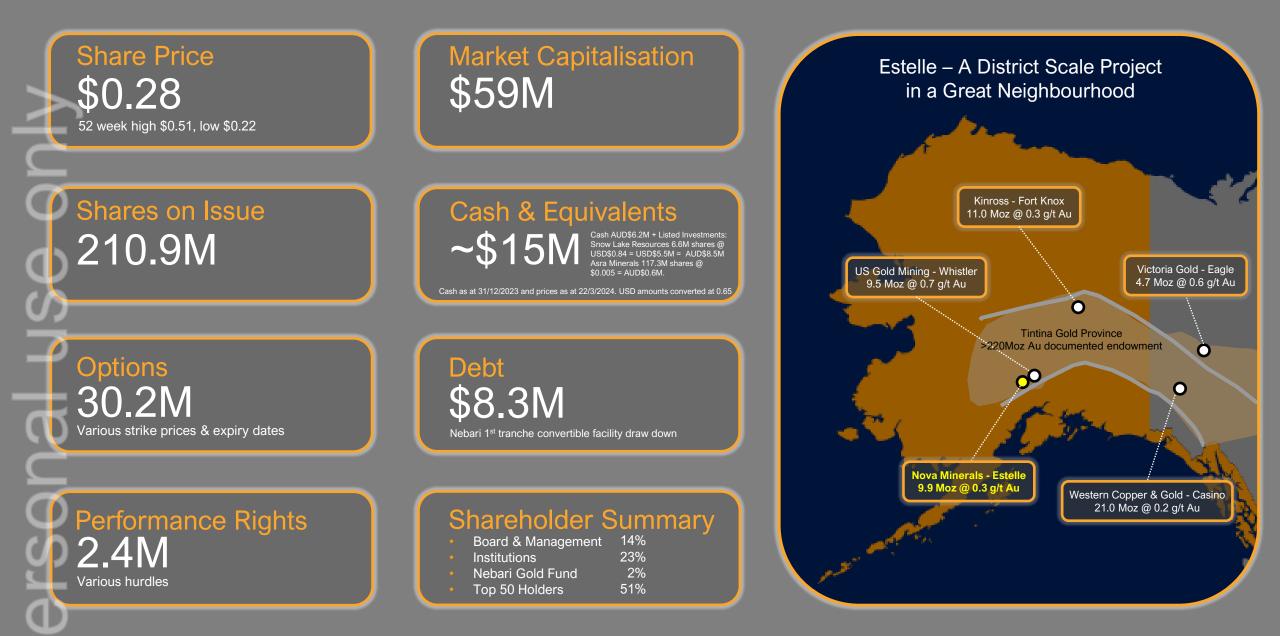
- Link to the state grid or proposed Flatlands Coal power plant
- Offtake from the proposed Donlin gas pipeline
- Diesel generators
- Micro-nuclear reactor

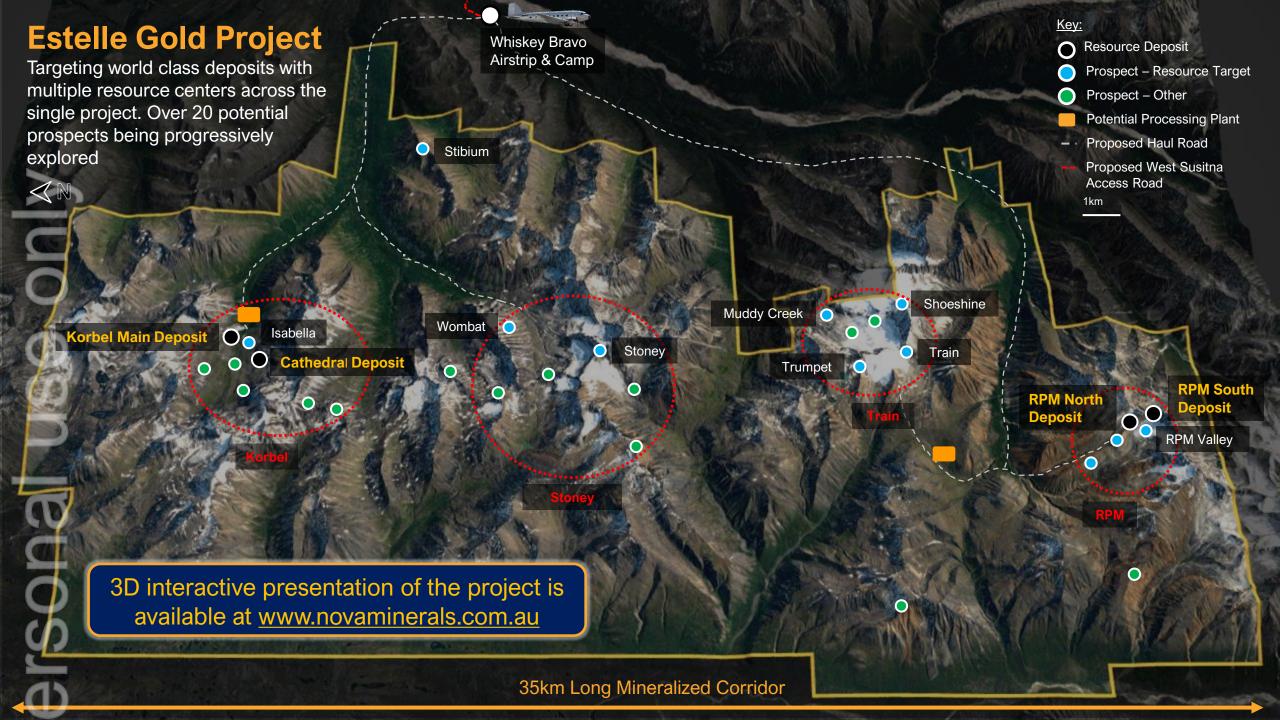


Estelle Gold Project

Nova Minerals Snapshot (As of 22 March 2024 in AUD)







RPM

High-Grade Resource Starter Pit – 1.0km L x 0.9km W x 0.6 km D Super high-grade Measure core of 180 Koz @ 4.1 g/t Au within a wider high-grade M&I Core of 340 Koz @ 2.3 g/t Au and a total resource of 1.24 Moz @ 0.6 g/t Au from Surface



Geological indications show all 3 areas are potentially genetically linked

- 6,600m (29 holes) from the 2023 drilling not included in the current MRE
 - Numerous holes drilled outside the current MRE model
 - Close spaced drilling expected to increase the M&I categories for the PFS
- All deposits from surface and remain open



- PFS test work also investigating the potential to heap leach the lower grade ore from RPM with agglomeration
- Loaded trucks with downhill hauls
- Drilling at RPM in 2024 to focus on growing and proving up the measured and indicated resource to ore reserves for the PFS



RPM South

RPM

0.20 g/t Au cut-off

Indicated

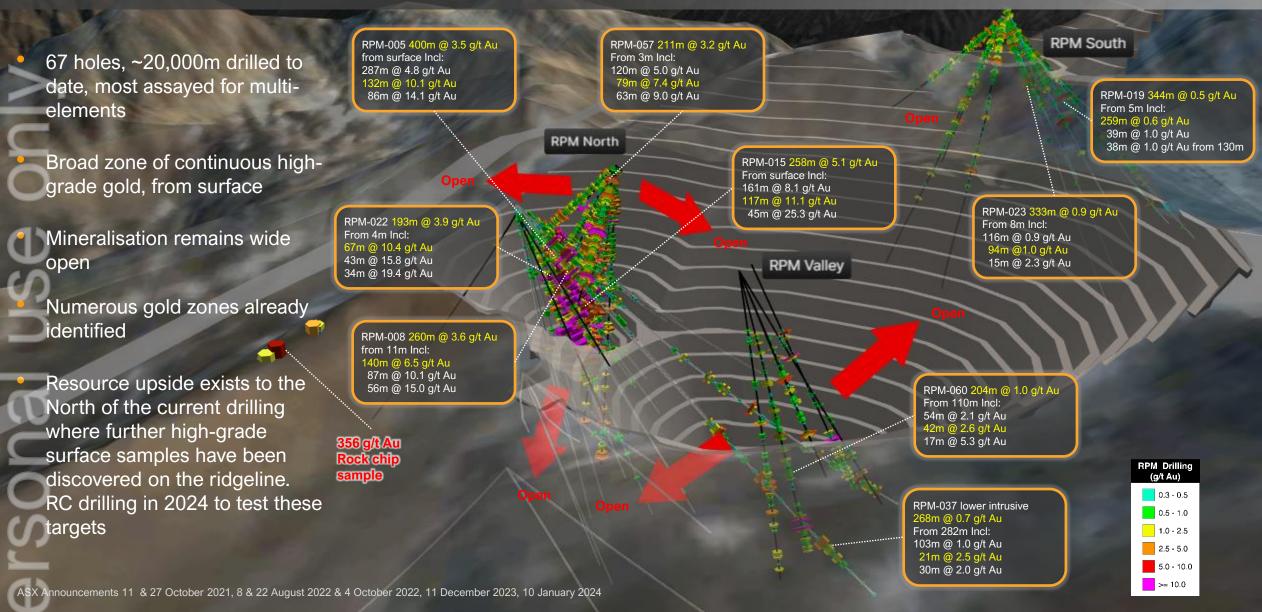
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RPM North

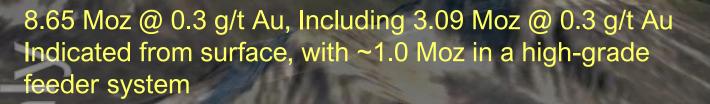
RPM Valley

World Class Thick High-Grade Gold Drill Intercepts





Korbel Bulk Tonnage Gold



Korbel Main Cathedral

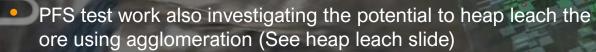
550m apart with the potential to be genetically linked

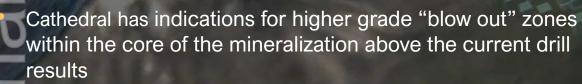
Korbel Main

2.5km L x 0.5km W X 0.5km D

All deposits from surface and remain open, with a low strip ratio

Current PFS test work indicates the pit slope angles can potentially be increased > 50 degrees





Environmental studies at an advanced stage

Proposed site for the Estelle central processing plant

Proposed Estelle central processing plant

Cathedral

0.8km L x 0.4km W

~1.0 Moz high-grade feeder system

Korbel & Cathedral 0.15 g/t Au cut-off

> Indicated Inferred



Korbel

Bulk Tonnage Gold with Thick Intercepts from Surface

- 214 holes, ~70,000m drilled to date
 - Mineralization remains wide open

KorbelYou Beauty in Deposit | Cathedral Deposit

Swee

Blocks C&D

Korbel Main

Resource upside potential with: High-grade rock chips at Cathedral defining a high priority drill target Size & scale of Cathedral mirrors Korbel Main 6 other exciting untested prospects in the Korbel area





CTDD-001 354m @ 0.3 g/t Au from 104m Incl: 11m @ 1.1 g/t Au

CTDD-003B 269m @ 0.4 g/t Au

from 168m Incl:

70m @ 0.6 g/t Au 3m @ 2.7 g/t Au 98 g/t Au

37 g/t Au

Cathedral

MINERALS

114 g/t Au



KBDH-012 429m @ 0.6 g/t Au

from 3m Incl:

101m @ 1.3 g/t Au 82m @ 1.5 g/t Au 30m @ 2.4 g/t Au

KBDH-072 308m @ 0.7 g/t Au

from surface Incl: 113m @ 1.0 g/t Au 49m @ 1.5 g/t Au

21m @ 2.5 g/t Au

Characteristics of Bulk Tonnage Mines

Geology and Geometry Come First



- Thick drill intercepts > 100m, and often at lower average grades
- Mineralization at surface with low strip ratios
- Large tonnage moved, but a large proportion of the material is ore, meaning less waste
- Open pit operations using conventional truck and shovel mining methods
- A central processing plant proximal to the ore source requiring short haul distance
- Often include heap leach process circuit for lower cost gold recovery Typically produce > 100,000 g/t Au per year at lower AISC's
- Kinross Gold Corp Fort Knox mine and Victoria Gold Corp Eagle mine, are good examples of highly profitable low grade bulk tonnage mining operations

Proposed Estelle Bulk Tonnage Gold Operation

The mineralized bodies found across the Estelle gold district, are similar in grade, deposit type, style of mineralization, and tonnage potential, to the Fort Knox and Eagle deposits. The Estelle Gold Project has a current resource of 9.9 Moz @ 0.3 g/t Au, and the scoping study showed that Korbel and RPM can support large, bulk tonnage and high-grade open pit mining operations, with ideal ore body geometry over the 17+ year LOM, using a conventional truck and shovel mining method and mill operation. As part of the current PFS level studies, heap leach agglomeration is also being tested for suitability to the ore bodies to potentially lower costs further

Kinross Gold Corp - Fort Knox Gold Mine

The Fort Knox gold mine, owned by Kinross Gold Corp, is a highly profitable, large scale bulk tonnage open-pit gold mine, located near the city of Fairbanks, Alaska. It is mined by conventional open-pit methods, with ore processed at a mill and heap leach facility. Currently Fort Knox has a remaining resource of 1.9 Moz @ 0.3 g/t Au, having already mined over 9.1 Moz over 27 years, including 290,651 ounces of gold in 2023 at an AISC of US\$1,195 oz.

Victoria Gold Corp - Eagle Gold Mine

The Eagle gold mine, owned by Victoria Gold Corp, is the Yukon's newest and biggest gold mine, and comprises of an open pit operation with a three-stage crushing plant, in-valley heap leach and carbon-in-leach adsorption-desorption gold recovery plant. In 2023, Eagle produced 166,730 ounces of gold at an AISC of US\$1,488 oz, and an EBITDA of CAD\$142m. Eagle has a current resource of 4.1 Moz @ 0.63 g/t Au.

Strategic Review Outcomes - Near Term Project Upside

Material Opportunities Identified which could Significantly Improve the Project Economics



Opportunity

Details

Heap leaching is a well-proven

Heap Leach Processing Option

PFS Level Ore Sorting Test Work and Optimization

Multi-Element Bi-Product Potential

gold recovery method which potentially captures 100's of millions of tons of lower grade material, which in the current flowsheet is waste. Heap leach will potentially recover gold from this material at lower

will potentially recover gold from this material at lower capital and operating costs.

The early rejection of waste material before milling through ore sorting, reduces the mill size, material handling requirements, overall operational expenses and the volume of tailings produced. Lower grade material rejected by the ore sorters can be routed for heap leaching.

The review identified highly elevated concentrations of Silver, Copper, Antimony and other Critical Minerals, and the potential for significant biproduct credits in any future mining scenarios. METS Engineering identified that the crush sizes used in the previous test work were too coarse. Consequently, current test work using a finer crushing on bulk samples from Korbel and RPM sent to Perth has commenced and is looking at various heap leaching options, including agglomeration, and alternative leach reagents, with results expected in the 2nd half of 2024. Early-stage indications look positive with this test work also identified as being very important in discussions with potential partners.

Action

Steinert to test ore sorting on medium grade material to produce a very highgrade concentrate (up to 6 g/t Au) potentially requiring a smaller milling circuit which would significantly reduce CAPEX and OPEX. Lower grade ore sort reject material will be routed to heap leach for gold recovery, increasing overall gold production. Steinert ore sorters can employ multiple sensors, including, XRT density, colour, laser, and induction., which will also be tested on ores from both Korbel and RPM. Early-stage discussions with potential partners and funders has shown the need to demonstrate the capabilities of ore sorting on a larger scale. A bulk, up to 200 kt, pilot scale ore sort test program is currently being planned.

Going forward multi-element analysis will be incorporated in all exploration and resource sampling. Review of all existing sample and drill data where multi-element analysis has already been undertaken. Test samples from several Korbel drill holes, which were not previously analysed for multielements, are being sent to ALS for comprehensive analysis of all elements. Scoping level metallurgical studies on antimony and critical minerals processing in the flow sheet has also commenced.

Strategic Review Outcomes - Near Term Project Upside

Material Opportunities Identified which could Significantly Improve the Project Economics



Opportunity

Details

The

review identified the

Action

Antimony and Other Critical Minerals (CM) Potential Grants, Early Production, and Sales

importance of antimony and other CM, coincident with the gold, recently discovered in surface sampling at numerous prospects across the project Gold-Antimony-CM site. Stibium, prospects. eg: present a potential near term cashflow opportunity through scale production. small Significant interest from the US federal government to US domestic CM secure supply chains provides the potential for grants and early sales which the company is actively pursuing.

Nova is currently investigating a potential small-scale starter mine for antimony and other CM at the Stibium prospect for US domestic supply and potential early cashflow. In addition, the Company is also evaluating different approaches to upgrade the downstream processes of antimony and CM to secure the supply chain for the US.

Nova CEO, Christopher Gerteisen, accompanied by Nova's corporate advisors, has visited both Washington DC, Alaska's state capital Juneau, and attended conferences to meet with various federal and state government departments and bodies to discuss the lack of a domestic antimony and CM supply chain in the US, and present Nova as a potential partner to supply these CM. The company is actively pursuing grant opportunities to progress development of its antimony and CM resources at Estelle.

These trips were very productive in highlighting the potential at Estelle and building strong relationships with relevant government agencies. The University of Alaska Fairbanks (UAF), a grantee under the Department of Energy (DoE) CORE CM program is tasked with commercializing CM in Alaska with the Estelle Project now included as a partner in the program. The State of Alaska House Bill No.122 provides AIDEA authority to issue up to US\$300M in bonds to finance critical minerals related projects in Alaska, including projects along the proposed West Susitna Access Road. Refer CS for House Bill No 122 (TRA) https://www.akleg.gov/PDF/33/Bills/HB0122B.PDF

Strategic Review Outcomes - Near Term Project Upside

Material Opportunities Identified which could Significantly Improve the Project Economics



Opportunity

Details

West Susitna Access Road (WSAR)

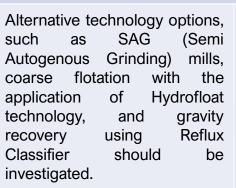


Further

Discoveries

Evaluation of Alternative Technology Options

The WSAR is a proposed ~150km all-weather road that links the project to port, rail and road. Nova could potentially utilize the road at an early stage and commence mine construction using the initial frontier trail along the proposed alignment prior to the road being fully completed.



To date we have only explored ~5% of the tenement block. Significant potential exists for further discoveries. The road is progressing as part of the DoT State Transportation and Infrastructure Plan with construction of the first 25 kms, which includes the largest bridge crossing, scheduled to commence in 2025. The remainder of the road to the Estelle Project is being advanced by the Alaska Industrial Development and Export Authority (AIDEA). AIDEA recently announced that it is completing the last phase field studies in 2024 and will advance to permitting. In addition, House Bill No.122 provides AIDEA the authority to issue US\$300M in bonds for CM related projects and infrastructure in Alaska, including the West Susitna Access Road. (https://www.akleg.gov/PDF/33/Bills/HB0122B.PDF)

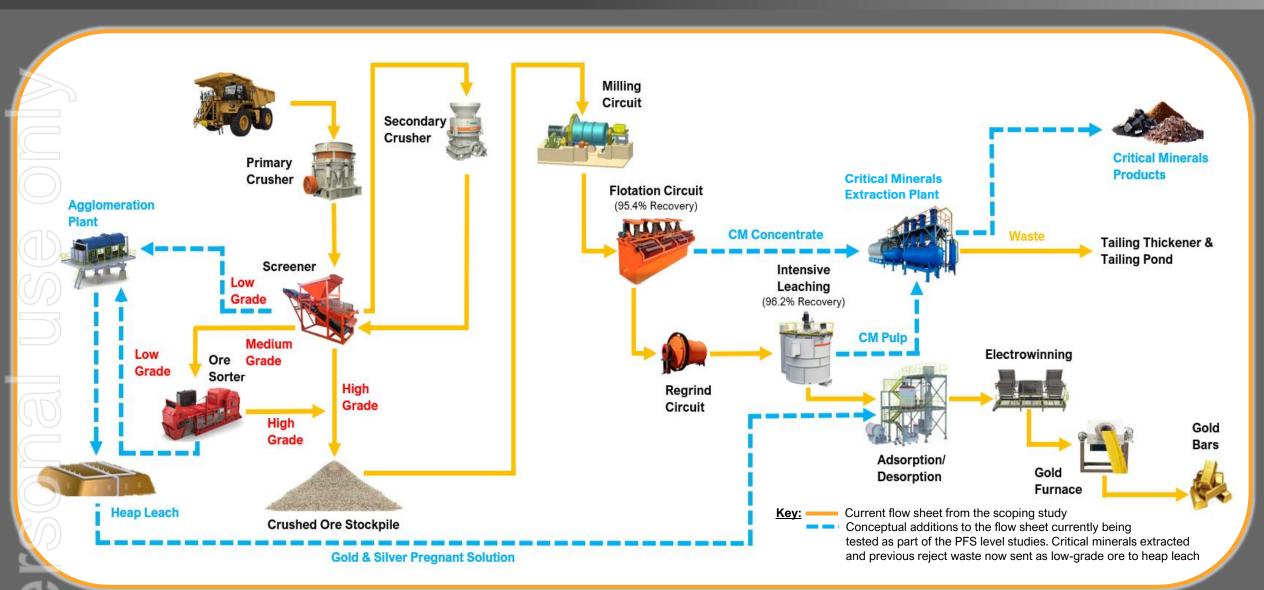
Action

SAG mills perform the crushing, grinding and washing together, and provide the highest reduction rate, while requiring less maintenance than normal crushers. Hydrofloat allows the floatation of particles of coarser sizes than conventional floatation cells, resulting in reduced operating and capital costs by maximising recovery at a coarser size and rejecting a larger portion of the ore from the plant at the coarsest size possible. Reflux classifier is a beneficiating device that utilizes both the principle of gravity separation and particle size classification. METS Engineering to perform test work to establish if the ore is amenable to these alternative technology options.

Low cost, boots on the ground geological sampling programs are planned again this year as we continue to explore the district scale project. Geology within project area is readily observable at surface and mostly outcropping. Currently, there is no requirement for expensive, complex, deep searching exploration techniques. As such, further significant gold and CM prospects are expected to be discovered this year and beyond.

Proven & Robust Flowsheet

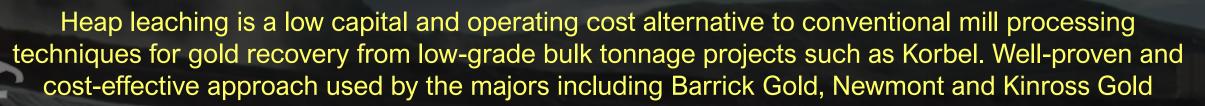
Further Improvements being Tested as Part of the Current PFS Level Studies



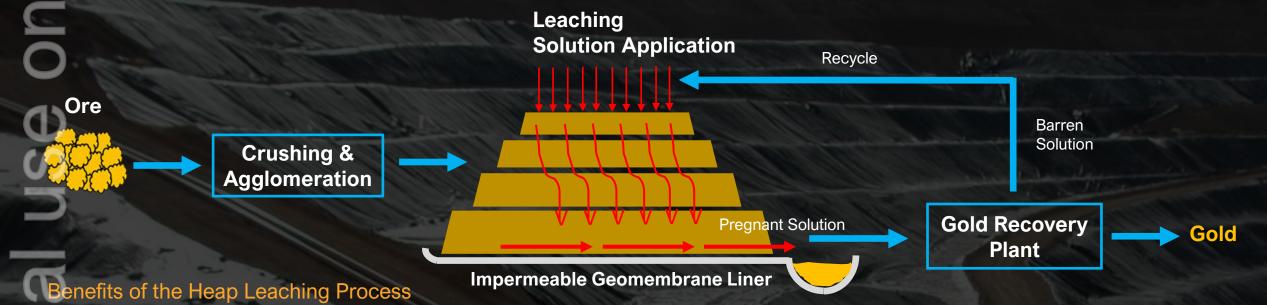
MINERALS

Heap Leaching

A Potential Game Changer for the Project (Currently Being Investigated as Part of the PFS Level Studies)



MINERALS



Recovers low grade gold from ore that was previously sent to waste = Higher potential gold production

Lower capital cost relative to other methods of gold recovery, as with only higher-grade ore now going through the plant, a smaller plant is required

Simple process with lower operating costs than conventional processing techniques (lower energy consumption, less equipment configuration) Can move a project to cashflow at a quicker pace and generate the capital required to finance the more expensive processing facilities Suitable for all climates eg: The Fort Knox gold mine in Alaska and the Eagle gold mine in the Yukon both use heap leaches to extract gold

Agglomeration Heap Leaching

Potential to Improve the Efficiency of the Heap Leach (Currently Being Investigated as Part of the PFS Level Studies) MINERALS

The migration of fines through a heap during irrigation can lead to poor permeability and plugging at the bottom of the heap. Agglomeration, which involves cementing the fines into rigid pellets, greatly enhances the uniform flow of the leach agent through the heap

How An Agglomeration Heap Leach Works

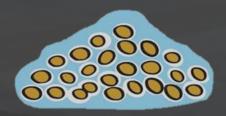
- Crushed ore put into a tumbling agglomeration drum where a binder is added to cause coalescence, creating uniform ore pellets
- Agglomerated ore pellets spread over a leaching pad
- Pad irrigated with a leaching agent which chemically reacts with the ore pellets to dissolve the gold into a solution as it percolates through the heap
- Impregnated solution collected at the bottom of the heap and the gold is recovered

Benefits of Adding Agglomeration to the Heap Leaching Process

- Improved heap percolation rates by up to 100 times
- Reduces the leach time by up to 2/3rds as the leaching agent is incorporated into the agglomeration stage
 - Reduced leaching agent consumption due to shorter leach time



Non-Agglomerated ore fines. Fines can block the flow of the leaching agent through the heap



Agglomerated ore fines. Uniform pellets enhance the flow of the leaching agent through the heap

Improved gold recovery rates Lower operating costs

ASX Announcement 15 March 2021

Ore Sorting

Rejecting Low-Grade Material Before Milling with the Reject Ore Sent to Heap Leach

How Ore Sorting Works

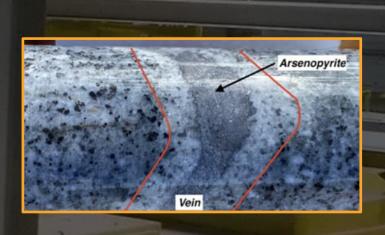
- Each individual rock is classified as being ore or reject using real-time online sensors
 - The sensor data is quickly analysed allowing individual particles to be sorted with high-grade ore sent for milling and the reject ore sent to heap leach

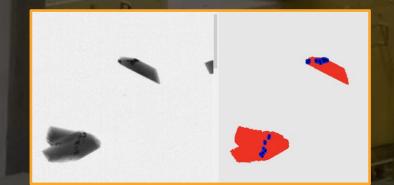
Benefits of Including Ore Sorting in the Flowsheet

- Optimizes the processing of ore material allowing a reduction in the cut-off grade, and a higher mill feed grade
- Early rejection of low-grade material before milling reduces the size of the plant required = Lower CAPEX and OPEX costs
- OPEX also reduced due to a reduction in the energy, water and reagent consumption
- Material handling and tailings production reduced with reject ore sent to heap leach = Potentially higher gold production
- Ore sorters now form part of the flow sheet in numerous successful mining companies

Nova's Ore Sorting Test Work

- To date Nova's extensive testing at Tomra has shown that ore sorting is proven to work exceptionally well, and can potentially provide an up to 10 X uplift in grade
- Testing so far has only looked at XRT density sorting, but Steinert's ore sorters can also sort based on a combination of XRT, colour, laser, and induction sensors
- Testing using Steinert's multi-sensor ore sorters is currently underway on ore from both Korbel and RPM
- A bulk, up to 200 kt, pilot scale ore sort test program is also currently being planned





XRT Scan of Product after Stage 1 (**6.06 g/t**). Blue and Black = Arsenopyrite sheeted vein. Red = Granite Waste Rock.



Significant Exploration Upside Potential

To Date < 5% of the 513km² Property has been Explored

35km long mineralized intrusive corridor

Gold, and highly elevated concentrations of Silver, Copper, Antimony and Other Critical Minerals (CM) have also been discovered across the project Korbel

- 6 exciting gold targets within close proximity to the proposed Estelle central processing plant
- High-grade rock chips samples up to 114 g/t Au discovered at Cathedral

Stoney

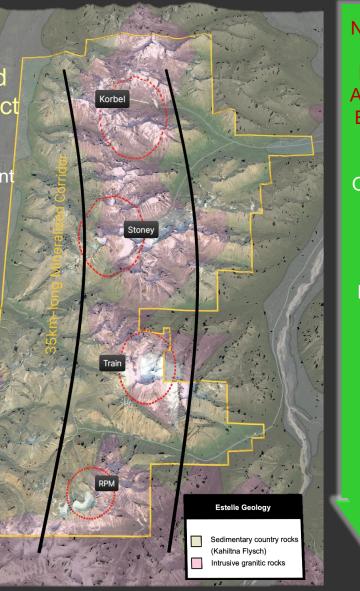
rain

• 7 exciting gold and multi-element targets in the central portion of the claim block

 High-grade polymetallic rock samples include 78.5 g/t Au, 2,720 g/t Ag, 10.6% Cu and 1.3% Sb (Antimony)

6 exciting gold and multi-element targets located ~6km north of RPM
 High-grade rock samples include 1,290 g/t Au, 1,945 g/t Ag, 6.7% Cu and 16.8% Sb

High-grade rock samples up to 356 g/t Au discovered north of the current proposed RPM Pit





Nova's Low-Cost Pathfinder Approach to Exploration

Geology Observed in Outcrop

Surface Mapping & Sampling

Surface Anomaly

Drilling

Train Antimony and Other CM's Coincident with High-Grade Gold **MINERALS** Au g/t 0 - 0.2 Au VN 0.2 - 0.5 Au 21.6 g/t Au, 0.1% Sb 0.5 - 1.0 Au 45.9 g/t Au, 114 g/t Ag 1.0 - 5.0 Au ,25.2 g/t Au, 0.1% Sb 5.0 - 10.0 Au > 10.0 Au 28.1 g/t Au, 0.7% Sb, ,80.2 g/t Au ,58.8 g/t Au, 0.1% Sb 40.4 g/t Au 25.5 g/t Au g/t Au, 184 g/t Ag, 0.7% Cu 23.3 g/t Au, 2.9% Cu 33.6 g/t Au Train Train Surface Sampling Results 32 rock samples > 5 g/t Au with a high of 80.2 g/t Au 31 soil samples > 0.5 g/t Au with a high of 3.3 g/t Au 15 rock samples > 0.5% Sb (Antimony) with a high >10% Sb Intention to conduct RC drilling at Train in 2024 1.5km \sim

ASX Announcement 16 November 2023

Trumpet

AN



Further High-Grade Antimony & Other CM, Copper, & Silver Coincident with High-Grade Gold

13.0 g/t Au, 2.0% Cu, 0.1% Sb

17.0 g/t Au

132.5 g/t Au, 1.2% Cu, 0.1% Sb

6.2 g/t Au, 429 g/t Ag, 5.7% Cu

32.8 g/t Au, 1.3% Cu, 0.3% Sb

7.9 g/t Au, 6.6% Cu

14.0 g/t Au

28.8 g/t Au

0.9 g/t Au, 4.2% Cu

2.5 g/t Au, **3.**9% Cu 16.6 g/t Au, 0.2% Sb 13.2 g/t Au, 0.1% Sb 2.9 g/t Au, 521 g/t Ag, 3.8% Sb

12.7 g/t Au, 779 g/t Ag, 6.7% Cu, 0.1% Sb

,25/.9 g8 Æ g/t Au, 280 g/t Ag, 2.3% Cu, 0.1% Sb

,16.0 g/t Au, 316 g/t Ag, 1.7% Cu, 0.1% Sb

,13.6 g/t Au, 0.1% Sb

,1.3 g/t Au, 1,945 g/t Ag, 0.5% Sb

2.4 g/t Au, 500 g/t Ag, 1.6% Cu, 2.5% Sb

_____0.7 g/t Au, 1.5% Sb

,3.1 g/t Au, 2.9% Cu

Trumpet

0.9km

Rock Chip Sampling - Au g/t 0 - 0.2 Au 0.2 - 0.5 Au 0.5 - 1.0 Au 1.0 - 5.0 Au > 5.0 Au

Trumpet Surface Sampling Results

7.0 g/t Au, 549 g/t Ag, 5.3% Sb

,0.7 g/t Au, 588 g/t Ag, 16.8% Sb

- 21 rock samples > 5 g/t Au with a high of 132.5 g/t Au
- 14 soil samples > 0.5 g/t Au with a high of 4.8 g/t Au
- 13 rock samples > 0.5% Sb (Antimony) with a high 16.8% Sb

Intention to conduct maiden RC drilling at Trumpet in 2024

ASX Announcement 16 November 2023

Shoeshine

Abundant Antimony Enriched Style Gold Mineralization



19.8 g/t Au 9.6 g/t Au, 941 g/t Ag, 0.1% Sb 35.6 g/t Au, 1.0% Cu

14.2 g/t Au, 0.9% Cu

5.5 g/t Au, 0.1% Sb

Ø

N

Rock Chip Sampling - Au g/t

0 - 0.2 Au 0.2 - 0.5 Au 0.5 - 1.0 Au 1.0 - 5.0 Au 7.2 g/t Au, 0.3% Sb 13.7 g/t Au, 132 g/t Ag, 1.8% Cu 14.6 g/t Au 57.7 g/t Au, 546 g/t Ag, 04.7% Ou, 0.2% Sb

10.3 g/t/Au/ 1.7% Cu /^{7.6} g/t Au, 3.0 % Sb

/Shadow

^{1.3M}1,290.0/g/t Au, 591 g/t Ag, 1% Cu, 0.9% 96.5 g/t Au, 114 g/t Ag, 0.1% Sb Shoeshine

23.4 g/t

Shoeshine Surface Sampling Results

 10 rock samples > 5 g/t Au with a property high of 1,290.0 g/t Au

18 soil samples > 0.5 g/t Au with a property high of 7.5 g/t Au, over a 1km strike length

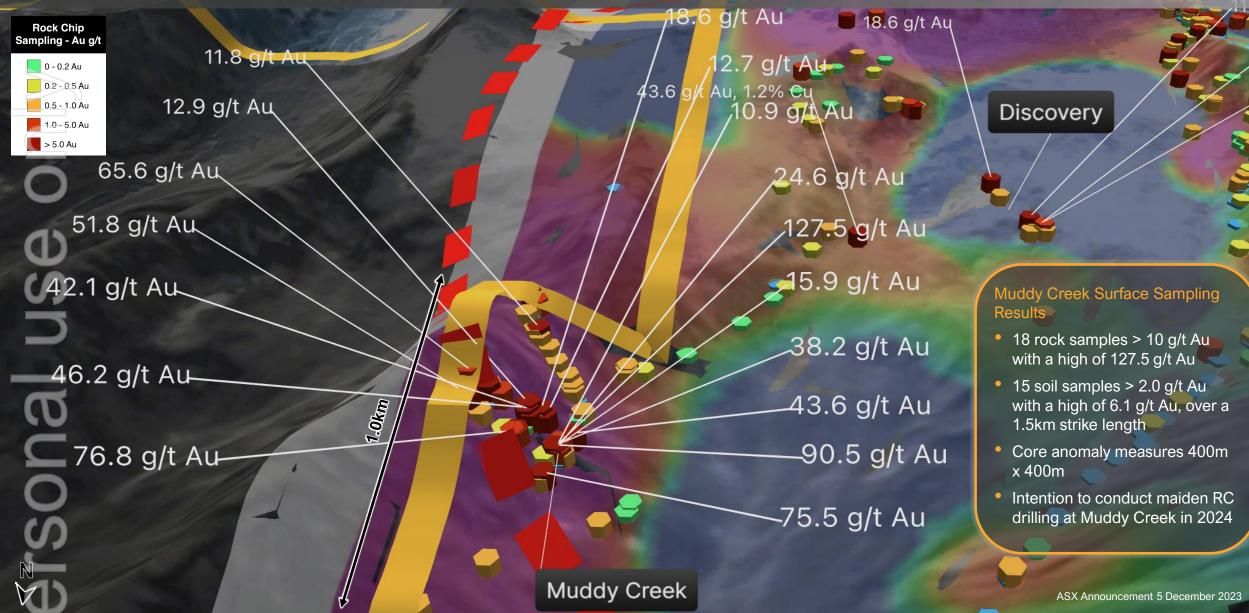
 3 rock samples > 0.1% Sb (Antimony) with a high 0.9% Sb

 Intention to conduct maiden RC drilling at Shoeshine in 2024

ASX Announcement 20 November 2023

Muddy Creek

One of the Most Impressive Gold Anomalies on the Property



MINERALS

Stoney

High-Grade Gold, Silver, Copper, & Antimony Anomalies Discovered





Stoney Area Surface Sampling Results

- 6 rock samples > 10 g/t AuEq with a high of 75.8 g/t AuEq
 10 soil samples > 1.0 g/t AuEq with a high of 4.2 g/t AuEq
- 2 rocks > 1,000 g/t Ag
- 4 rocks > 3% Cu with a high of 8.5% Cu
- 5 rocks >0.1% Sb including 2 rocks measuring 1.3% and 0.9% Sb
- **%** soil samples returning **> 0.1% Sb**, including a high of **0.48% Sb**
- Intention to conduct further surface sampling in the Stoney, Wombat, Trundle and Tomahawk areas in 2024

Rock Chip Sampling - Au g/t								
0 -	0.2 Au							
0.2	2 - 0.5 Au							
0.5	5 - 1.0 Au							
1.0) - 5.0 Au							
> 5	5.0 Au							

T5

Stibium

Korbel

High-Grade Gold & Antimony in Close Proximity to Korbel & the Camp



Stibium Surface Sampling Results

- High-grade Antimony coincident with Gold with a high of 12.7 g/t Au and 60.5% Sb (Antimony)
- 2m wide surface outcropping containing stibnite with over 30m in strike length
- Intention to conduct maiden drill testing at Stibium in 2024 using a diamond rig early in the season
- Nova is currently investigating a potential small-scale starter mine for antimony and other CM at the Stibium prospect to create a concentrate for US domestic supply and potential early cashflow
- With a minimal impact and footprint required, a streamlined rapid permit process is possible



Antimony and Other Critical Minerals

Coincident with the Gold at Estelle



Strong Interest Shown in Estelle's Antimony and CM Potential

- Antimony is a scarce mineral Stibnite is the only commercially mined source for antimony and its coincident with gold at Estelle
- US currently has no domestic supply but wants to sure up its antimony and other CM supply chains = Opportunity for potential US government grants to explore further
- Potentially significant bi-product credits. Commenced scoping level metallurgical studies on antimony and critical minerals processing in the flow sheet
- Currently investigating a potential small-scale starter mine for antimony and other CM at the Stibium prospect to create a concentrate for US domestic supply and potential early cashflow
- Also evaluating different approaches to upgrade the downstream processing of antimony and CM to secure the supply chain for the US
- The University of Alaska Fairbanks (UAF), a grantee under the Department of Energy (DoE) CORE CM program is tasked with commercializing CM in Alaska with the Estelle Project now included as a partner in the program
- Through trips to both Washington DC and Juneau, the Company has already built strong relationships with various federal and state government departments and bodies to present Nova as a potential domestic partner to supply the US with antimony and CM, while also actively pursuing grant opportunities to progress development of its antimony and CM resources at Estelle
 - The State of Alaska House Bill No.122 recently provided AIDEA authority to issue up to US\$300M in bonds to finance critical minerals related projects in Alaska (https://www.akleg.gov/PDF/33/Bills/HB0122B.PDF)
 - Nova's CEO recently attended a munitions conference in New Jersey to pursue DoD and industry collaboration

Future Market Insights forecasts that the global antimony market is likely to be worth \$4.5 billion by

2032, growing at a 4% CAGR from 2022 to 2032





Antimony Uses (Uses)

The Most Important Critical Mineral You have Never Heard Of



Key properties - heat and flame resistance, anti-corrosion, and its ability to harden and strengthen certain materials and metals Strategic critical mineral that is used in all manner of civil and defense applications

(Smart phone screens, camera lenses, binoculars, energy efficient windows)

(Munitions, night vision goggles, explosives, communication equipment)

8%

Defense **Ceramics & Glass**

12%

Chemicals 16%

(Clean energy battery storage – Ambri liquid metal batteries, vehicles, wind turbines, solar panels)

> **Energy & Transportation** 29%

(Clothing, furniture, electronics)

Flame Retardant 35%

World Antimony Production 2022 (USGS)

99% of the World's Antimony Supply Comes from 7 Countries



The US currently does not have any domestic supply. US critical minerals supply chain risk Bolivia 2% (Å)

But Estelle can change this, and we have already built strong relationships with both US Federal and State government bodies

Turke

Australia 4%

Russia 18%

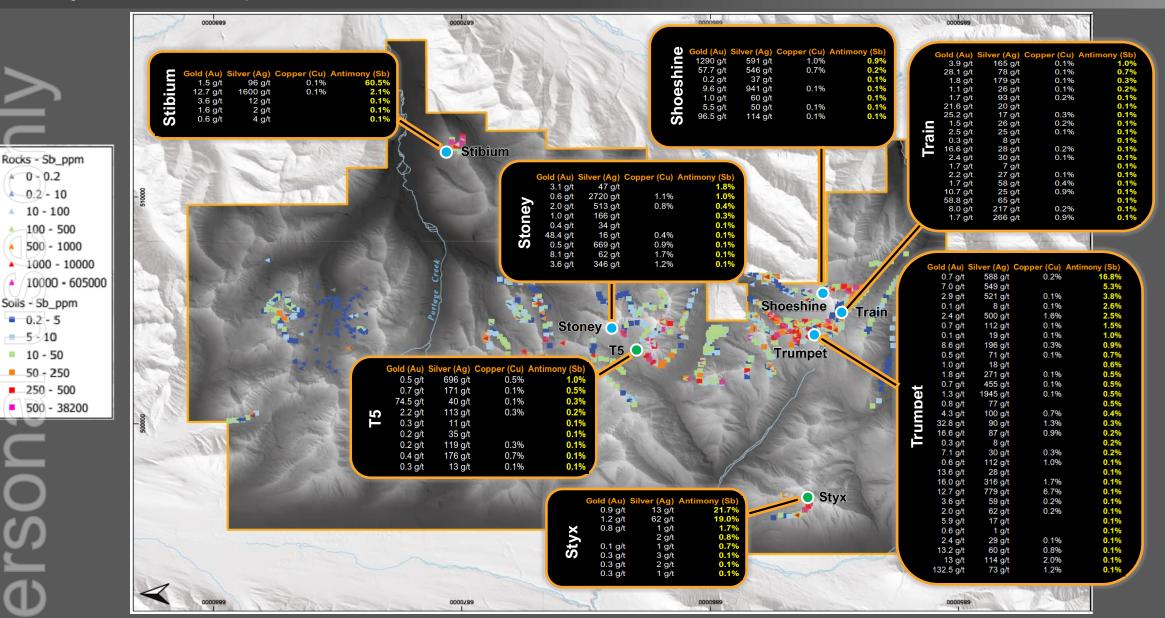
China 54%

Myanmar 4

Antimony at Estelle

Many Surface Samples Discovered > 0.1% Sb (>0.1% Sb considered high-grade)





Multi-Element Potential at Estelle

Gold, Antimony, and Other High-Grade Minerals Also Discovered



Estelle could potentially help the US secure its CM supply chain

Mi	Mineral		Earth	Estelle	Top Prospects at Estelle where Highly	World Pro	duction (%)**	World Res	serves (Kt)**			
	ement	Symbol	Average (ppm)	Maximum (ppm)*	Elevated Concentrations have been Discovered to Date	USA	China / Russia	USA	China / Russia	Uses		
G	Gold	Au	0.004	1290	All	5	20	3	9	Investment, jewelery, electronics		
Anti	imony	Sb	0.2	605000	Stibium, Styx, Shoeshine, Train, Trumpet 0 85		60	700	Defense tech, munitions, flame retardants batteries, clean tech, communications, chemicals. ceramics/glass			
s s	Silver	Ag	0.075	2720	Stoney, Shoeshine, Train, Trumpet	4	20	23	116	Investment, electricals, photovoltaics, solar, jewelery/silverware, brazing/solder, photography		
Co	opper	Cu	60	100500	Stoney, Shoeshine, Train, Trumpet, Trundle	4	50	44	89	Construction, electricals, transportation, industrial machinery		
	smuth	Bi	0.009	>10000	RPM, Shoeshine, Train, Trumpet	0	80	NA	NA	Chemicals, pharmaceuticals, glass/ceramics, pigments		
	obalt	Co	25	9110	Wombat, Stoney, Train, Trumpet	<1	6	69	390	Super alloys, chemicals, metallics, tools		
Ga	allium	Ga	19	61	Wombat	0	99	0	760	Semi conductors, optoelectronics, integrated circuits		
	ndium	In	0.25	60	Wombat, Train, Trumpet	0	60	NA	NA	LCDs, alloys/solders, compounds, electrical components, semiconducters, research		
Lant	thanum	La	39	1480	Wombat	15	70	2300	65000	Catalysts, magnets, ceramics, glass, metallurgical, alloys, polishing		
Man	nganese	Mn	950	21900	Shoeshine, T5	0	5	0	280	Steel, animal feed, bricks, batteries, fertilizers		
Sca	andium	Sc	22	156	Trumpet	W	55	0	NA	Specialty alloys, fuel cells, ceramics, electronics, lasers, lighting		
Stro	ontium	Sr	370	1550	Revelation, Train, Trumpet	0	25	NA	16000	Drilling fluids, magnets, pyrotechnics, signals, alloys, pigments/fillers, glass		
Tell	llurium	Te	0.001	444	RPM, Shoeshine, Train, Trumpet, Muddy Creek	W	65	4	8	Solar cells, energy, thermoelectrics, specialty alloys, chemicals, pigments		
Tur	ngsten	W	1.3	>10000	Shoeshine, Trumpet, Stoney, RPM, Revelation	0	90	NA	2100	Tools, specialty alloys, electrical, chemicals		
	ttrium	Y	33	>500	Trumpet, Stoney	0	90	NA	NA	Catalysts, ceramics, electronics, lasers, metallurgy, phosphors		

* Source ALS laboratory analysis ICP_MS61, Dataset includes 1844 rock and soil exploration samples across Estelle project area.

** Source USGS Mineral Commodity Summaries 2023,

NA - Data not available

- Information with held to avoid disclosing company proprietary data

Where Are We and Where Are We Going

Significant Disconnect Between Market and Fundamental Value



Same share price as early 2020 before Nova had delivered the following fundamental achievements, and the gold price was just US\$1,600 oz (Gold now hovering around US\$2,200 oz)



Significant Achievements in 4 Years

- Defined a 9.9 Moz gold resource District scale
- Drilled ~90,000m Word class thick drill intercepts
- Established 80-person winterized camp and facilities
- Completed 2 robust economic studies
- Proven flowsheet with PFS level studies commenced and expected to improve further
- Built strong relationships with government, suppliers, and the Alaskan community
- Monetized investments to reduce dilution to shareholders

Upcoming Potential Catalysts

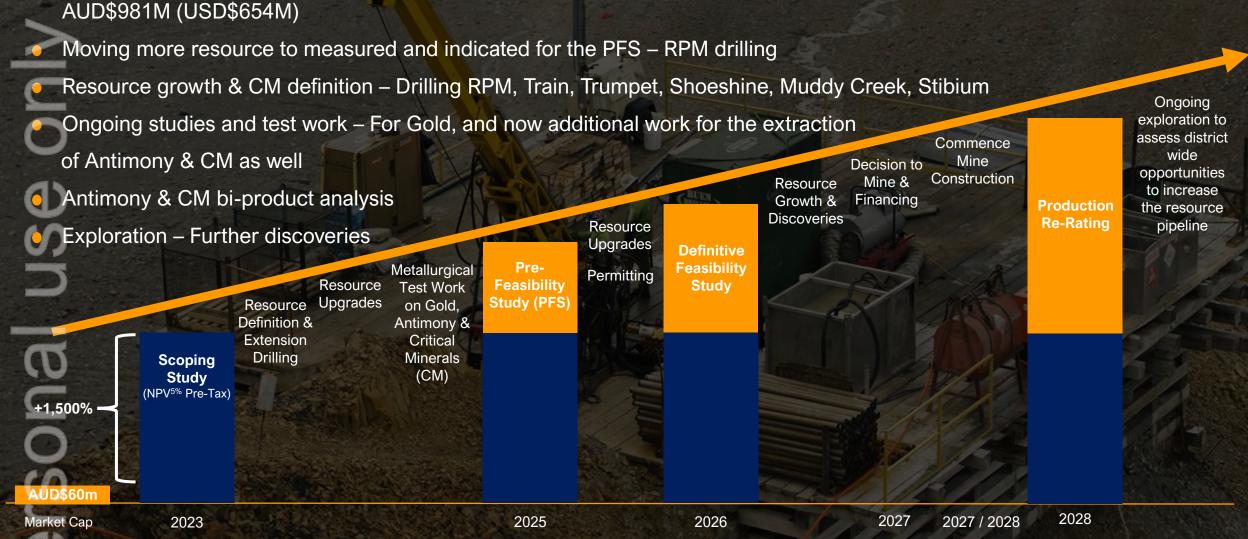
- US listing on the NASDAQ and roadshow (North American peers – Snowline Gold Corp, US Goldmining, New Found Gold Corp)
- Results from ongoing metallurgical and ore sorting test work
- 2024 exploration and drill program news flow
- PFS level derisking and optimization study results as they are completed

A Path of Value Accretion Opportunities

Market capitalization ~ AUD\$60m (~USD\$40m) is a significant discount to the Scoping Study NPV of

Significant Value Upside as the Project Continues to De-Risk





All timelines are projected only and subject to assay lab turn arounds, market and operating conditions, all necessary approvals, regulatory requirements, weather events and no unforeseen delays (including freight delays, delays due to COVID-19 etc).

Team with the Experience to get Estelle into Production

as well as auditing for Ernst and Young





Louie Simens Executive Chairman Over 20 years' experience managing and operating multiple business with large projects in the building, mining and civil industries. Maintains extensive networks in the mining and financial industry

Christopher Gerteisen Executive Director & CEO

Over 30 years' experience managing and advancing resource projects from green fields, through development and into production across North America, Australia and Asia

Over 30 years commercial and finance experience working in senior roles within multinational private enterprises



Craig Bentley Director Finance & Complian



Rodrigo Pasqua

Vast experience in unlocking the value of mining projects across the world, including specific expertise in largetonnage bulk mining operations working for large mining companies



Extensive investment experience and a deep knowledge of corporate finance, including capital markets, venture capital, hybrid, debt and private equity



15 years' experience developing, conducting, and managing geotechnical engineering and mineral exploration for resource development projects in Alaska

Experienced management who have collectively personally invested over USD\$5m and who are committed to growing Nova Minerals into a global tier 1 gold producer by developing the Estelle Gold Project

Immediate North American Peers



2 All Mineral Resource Estimates include, Measured, Indicated and Inferred resources, and where appropriate are also inclusive of Reserves, and compliant to either JORC 2012, NI 43-101 or SK-1300 standards



Thank You

Nova Minerals Limited

T: +61 3 9537 1238 E: info@novaminerals.com.au W: www.novaminerals.com.au

Main Operations

Whiskey Bravo Airstrip Matanuska-Susitna Borough, Alaska, USA 1150 S Colony Way Suite 3-440, Palmer, AK 99645

Office

Suite 5 242 Hawthorn Road Caulfield Victoria 3161 Australia



Appendix 1: Global Mineral Resource Estimate



- High confidence, conservative Global MRE 9.9 Moz April 2023
- Currently excludes ~6,600 of drilling undertaken in the 2nd half of 2023
- Includes a super high-grade zone of 180 Koz @ 4.1 g/t Au Measured
- Based on ~ 83,000m of RC and high-quality oriented diamond core drilling
- Comprises of 4 large IRGS deposits
- Resources from surface and all deposits remain open with significant potential upside
- Suitable for large scale open pit mining

		Cutoff	Measured			Indicated			Inferred			Total		
5	Deposit		Tonnes Mt	Grade Au g/t	Au Moz	Tonnes Mt	Grade Au g/t	Au Moz	Tonnes Mt	Grade Au g/t	Au Moz	Tonnes Mt		Au Moz
5	RPM North	0.20	1.4	4.1	0.18	3.3	1.5	0.16	26	0.6	0.48	31	0.8	0.82
	RPM South (Maiden)	0.20							31	0.4	0.42	31	0.4	0.42
	Total RPM Mining Complex		1.4	4.1	0.18	3.3	1.5	0.16	57	0.5	0.90	62	0.6	1.24
	Korbel Main	0.15				320	0.3	3.09	480	0.2	3.55	800	0.3	6.64
	Cathedral (Maiden)	0.15							240	0.3	2.01	240	0.3	2.01
	Total Korbel Mining Complex					320	0.3	3.09	720	0.2	5.56	1,040	0.3	8.65
2	Total Estelle Gold Project		1.4	4.1	0.18	323	0.3	3.25	777	0.3	6.46	1,102	0.3	9.89