

# **Estelle Gold Project**

Nova Minerals is a dynamic Australian explorer and developer

2.5Moz gold resource is a start, the best is yet to come...

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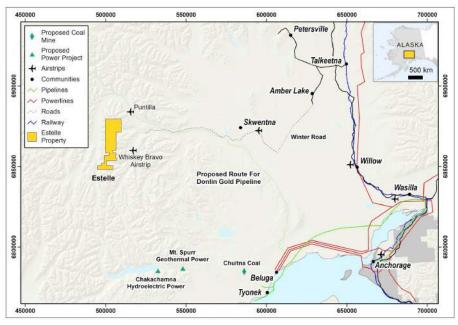
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# **Estelle Gold Project Location**







185 km northwest of Anchorage15 km - Whiskey Bravo Airstrip15 km - proposed Donlin Pipeline



Aircraft: Anchorage to Whiskey Bravo Helicopter: Whiskey Bravo to Property Winter Road Access Available



Summer Temp =  $5^0$  to  $30^0$  C Winter Temp =  $-15^0$  to  $-5^0$  C Annual Precipitation = 500 - 900 mm



### **Terrane**

Alaska Mountain Range Elevations 705 -2,085 m Excellent outcrop exposure Drilling accessible all year round

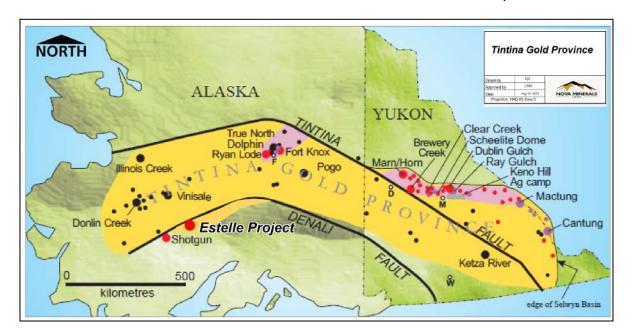
"The Estelle Project is situated in an emerging gold district in a highly productive gold belt"

# Regional Setting: The Tintina Gold Belt



## **Location is Key**

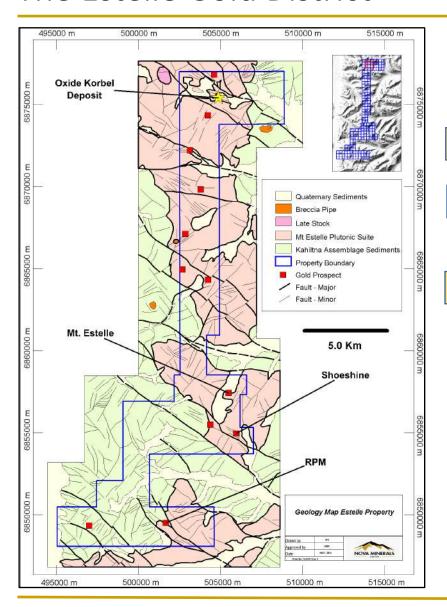
- The Estelle property is located within the Tintina Gold Belt (TGB) of the Northern Cordillera.
- More than 200 million ounces of hard gold resources have been documented within the belt during the last decade alone.
- Untold millions of ounces of historical placer gold
- Intrusion related IRGS deposits types are common throughout the TGB which hosts a number of recent world class discoveries and producers





## The Estelle Gold District





Size 368 State mining claims 220 km<sup>2</sup>

Ownership Nova earning up to 85%

Geology

IRGS deposit type targets

Estelle plutonic complex

Cretaceous age multiphase intrusion

Korbel deposit Inferred Resource

181.29 mt @ 0.43 g/t Au (2.5 Moz gold)

Mineralization open in all directions

Multiple gold occurrences

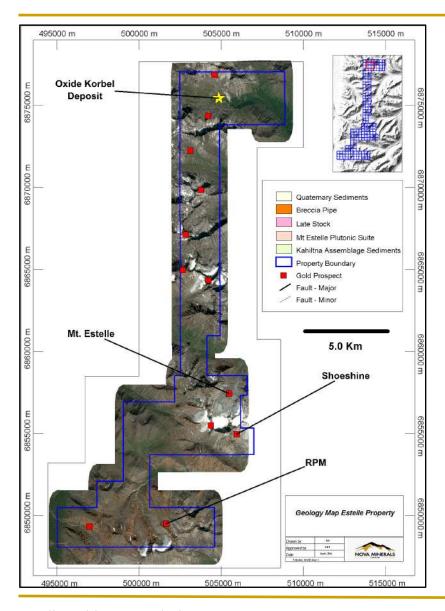
Low cost bulk mineable targets

Open in all directions and depth

**Note:** Korbel deposit Estimated Resource reported here using a 0.025 g/t Au cut-off grade for illustrative purposes. See Mineral Resource Statement table for alternative cut-off grade estimates.

## The Estelle Gold District





## **Property Wide Multiple Gold Targets**

## "there is gold in them thar hills"

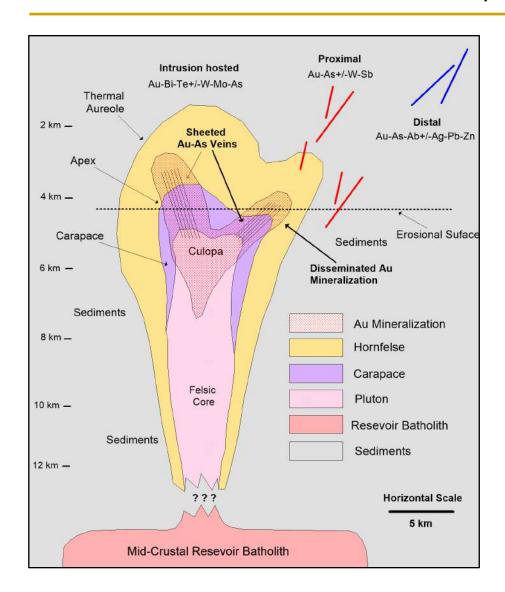
- Satellite image of the Estelle gold property illustrating the distribution of multiple gold prospects on the Estelle property
- Compilation and Target assessment are ongoing



"Re-assaying of intact, historical drill core by Nova from the RPM yielded 177.39 m grading 0.79 g/t Au (includes 1.02g/t Au over 120.40 m and 1.79g/t Au over 50.17 m ) "

## The Estelle Intrusion Related IRGS Deposit Model





## **Korbel Deposit Model**

Nova's Korbel deposit is a classic Intrusion Related Gold System (IRGS) type deposit. Economic IRGS type deposits such as Fort Knox and Eagle are low grade multi-million-ounce open pit mines occurring in the TGB.

IRGS deposits commonly form:

- In the carapace of smaller, multiphase plutonic bodies
- Mineralized gold zones may extend from the cupola through into the thermal aureole surrounding the pluton
- Conjugate sets of mineralized sheeted veins in late structures are typically emplaced coeval with the final stages of pluton crystallization
- Proximal and distal types of IRGS deposits may also form in favorable structures beyond the thermal aureole surrounding the pluton
- Pathfinder elements to intrusion related gold deposits and the Korbel deposit include As, Bi, Te and lesser Mo and Sb.

# **Deposit Types: Examples**



## **Korbel Deposit Mineralization Style**

The mineralization is characterized by a conjugate sets of sub–centimeter scale, commonly sheeted quartz veins. These gold-bearing, veins are mineralized with arsenopyrite, pyrite and pyrrhotite and the host intrusive rocks to the veins are mineralized with disseminated sulfides. The mineralized bodies are similar in grade, style of mineralization, deposit type and tonnage potential to the Fort Knox and Eagle deposits which are also located in the Tintina Gold Belt of the Northern Cordillera.



Sheeted quartz veins, Korbel deposit.



Sheeted quartz veins, Fort Knox and Dublin Gulch Eagle deposit.

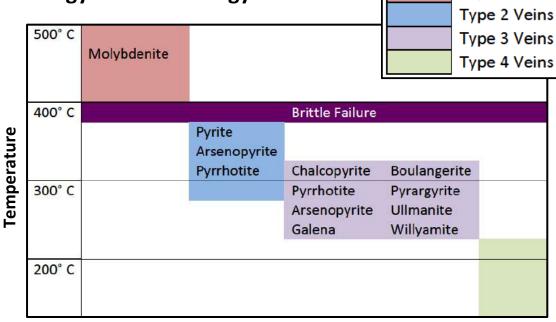
# Vein Types: Mineralogy and Paragenesis



Type 1 Veins

## Korbel Deposit Vein Types, Mineralogy and Mineralogy

Flagg (2014) characterized the morphology, cross-cutting relationships, vein paragenesis, and mineralogy of the veins and identified those minerals associated with gold mineralization and determined the relative timing of vein formation and sulfide mineralization.





**Time** 

"Gold in the Korbel deposit is associated with orthogonal sets of Vein Types 2 and 3"

# Korbel Deposit Geology

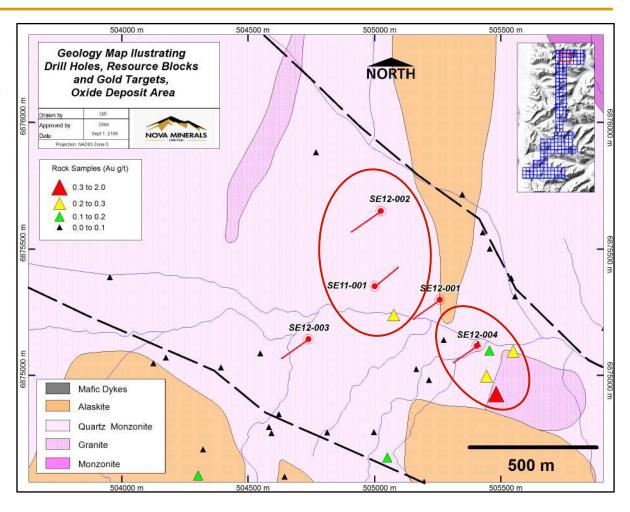


## **The Starting Point**

Nova recognized the significance of the project early and in just 1.5 years with minimal budgets established a 2.5Moz Inferred Gold Resource as follows;

Geological map of the Korbel deposit area showing:

- Historical (2011/2012) cored drill holes are shown in red
- Historical Holes SE11-001, SE12-002 and SE12-004 all returned broad intersections grading 0.44 to 1.14 g/t Au
- Geology and outcrop rock sampling was completed by Bundtzen (2018)
- Nova recognized the significance of these early holes and scale of the potential IRGS deposits that could occur on the property.



"The Nova Team recognized the significance and mine potential of the project and Joint Ventured the Property on 20th November 2017"

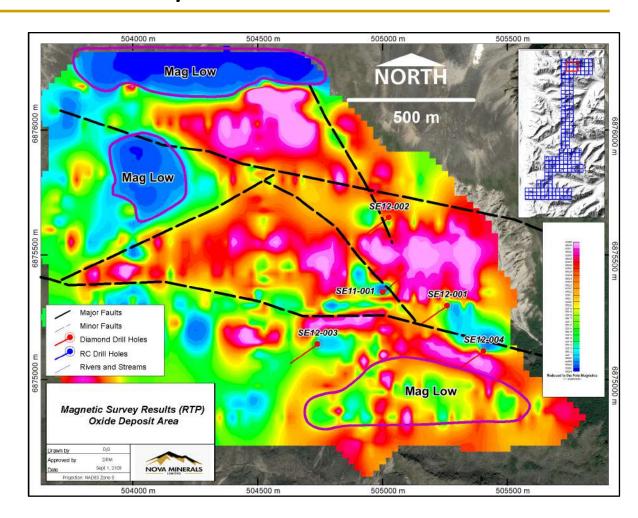
# Ground Magnetometer Survey (ASX: 16 and 17 July, 2019)



## **Magnetometer Survey**

In 2019 Nova completed a ground magnetometer survey over the Korbel deposit target area to guide the drilling.

- In general, the magnetics response is subtle with a gradient of only 150 nT in the Korbel target area
- These data highlighted the significance of the "Valley Fault", other key structures and distinctive geologic domains
- Several distinct, deep-seated, Magnetic lows were identified which may reflect alteration or different intrusive phases of the Estelle pluton.



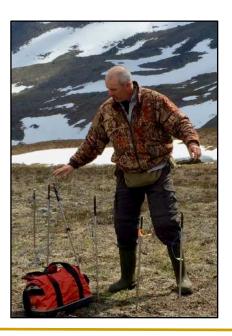
"The Ground Magnetics survey was particularly useful delineating significant structures at the deposit scale"

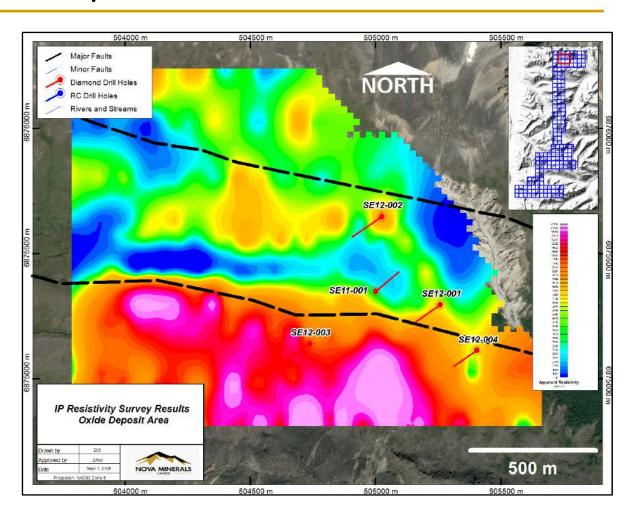
# Ground Resistivity Survey (ASX: 16 and 17 July, 2019)



## **Resistivity Survey**

- The Resistivity survey once again highlighted the significance of the "Valley Fault"
- The data also defined 2 distinct geological domains to the north and south of the Valley Fault





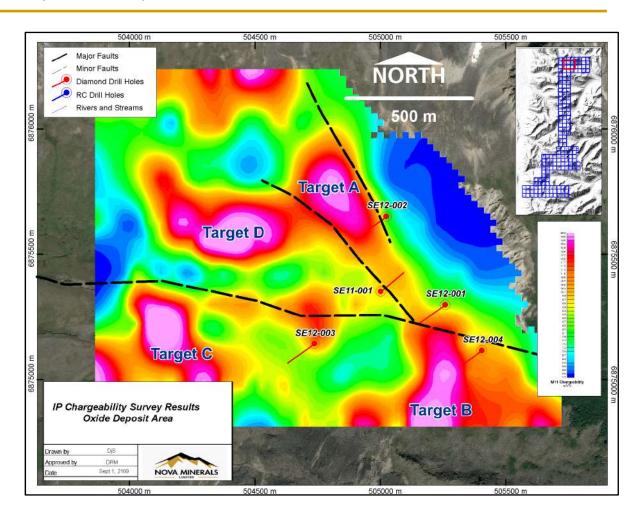
"The Resistivity highlighted the Valley Fault and also defined 2 distinct geological domains"

# Ground IP/Chargeability Survey (ASX: 16 and 17 July, 2019)



## **IP/Chargeability Survey**

- The Chargeability survey data was used to identify areas which may have increased concentrations of sulfide minerals.
- In the Korbel target area 4 distinct anomalies were delineated by the survey.
- Targets A and B had broad low-grade historical drill hole intersections
- All the pieces were starting to fit together.



"The Chargeability data defined 4 high priority Targets in the Korbel Valley area".

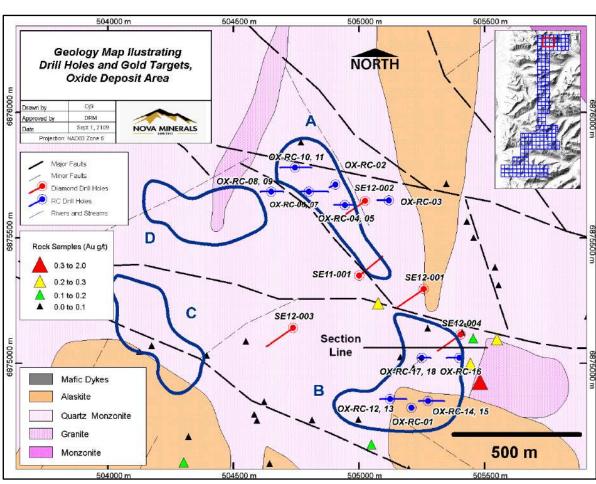
# 2019 Drilling Targets



## **2019 Drilling Program**

- Using the available data, Nova identified 4 high priority Targets A, B, C and D.
- Nova completed 18 Reverse Circulation (RC) holes (1,367 m) testing Targets A and B.
- Nova also re-sampled 3 intact, historical cored drill holes





"Data Compilation and drill Targets, Korbel Valley Area - 2.5Moz Inferred Gold Resource is just a start"

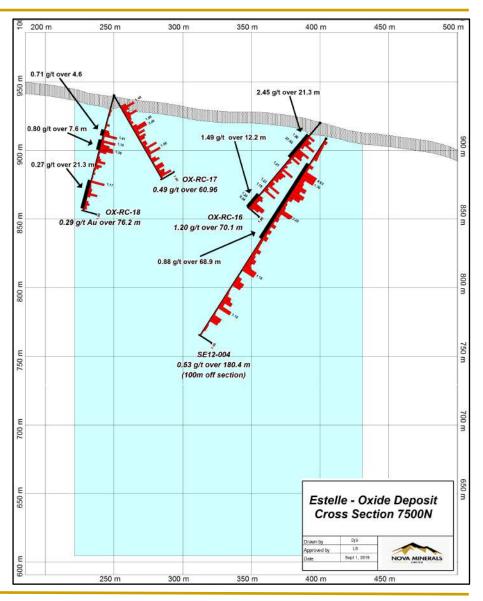
# Korbel Deposit Inferred Resource Estimate



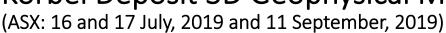
	Inferred Resource Model		
Cut-off Au g/t	Tonnes	Grade Au g/t	Gold Ounces
0.00	311,501,760	0.286	2,864,338
0.05	275,556,930	0.320	2,835,039
0.10	225,538,080	0.374	2,711,997
0.15	205,188,840	0.398	2,625,636
0.18	181,291,950	0.429	2,500,538
0.20	169,590,735	0.446	2,431,838
0.25	126,171,385	0.523	2,121,584
0.30	96,634,435	0.590	1,833,081
0.35	81,543,355	0.649	1,701,496
0.40	68,620,730	0.700	1,544,369
0.45	55,794,920	0.764	1,370,521
0.50	47,371,345	0.817	1,244,330

#### **Notes to Resource Estimate:**

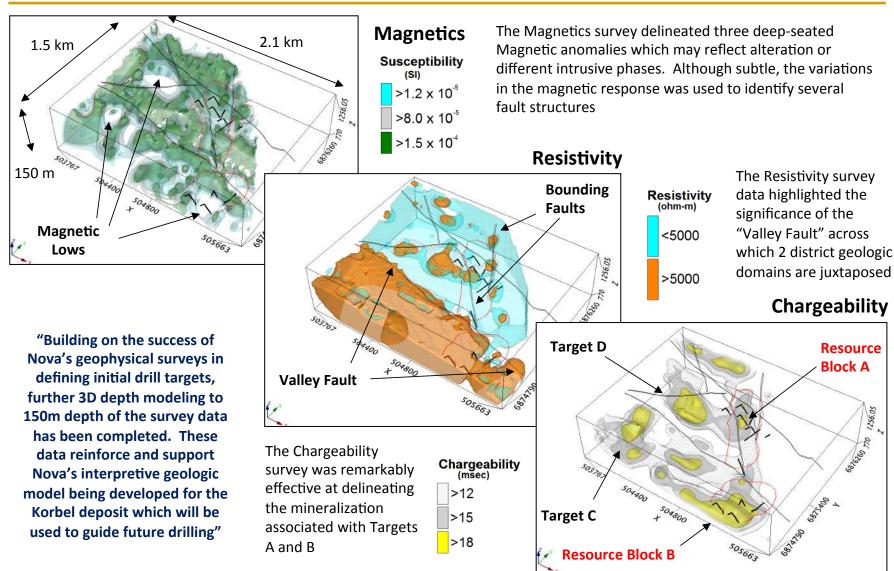
- \* The effective date of this estimate was September 9, 2019
- \* The bulk density was estimated at 2.68 t/m<sup>3</sup>
- No grade capping was used in estimating the resource
- Estimation methodology used an inverse distance squared interpolation with a 140 m search radius
- Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability
- \* The reported mineral resources are considered to have reasonable prospects for economic extraction
- \* This Resource Estimate was completed in accordance with JORC Standards and is not and advanced resource estimate



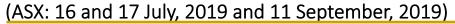
# Korbel Deposit 3D Geophysical Modeling







# Korbel Deposit Area Interpretation



both larger and stronger

Chargeability anomalies that have

not been drill tested to date -

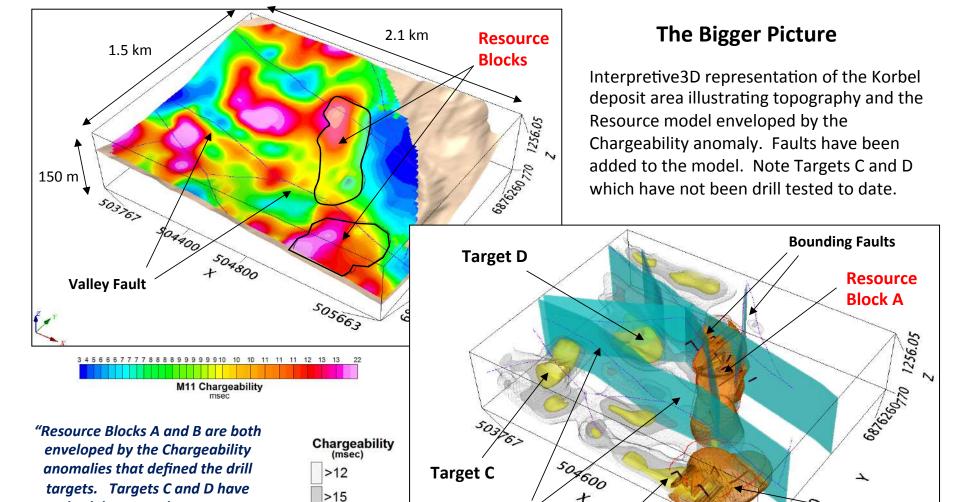
Only scratched the surface"



Resource

**Block B** 

505663



>18

**Valley Fault** 

**Drill Holes** 

## Gold Leach Recoveries Av. 76% at the Korbel Deposit

(ASX: 30 December 2019)



18

### **Recoveries**

Exceptional gold leach recoveries averaging **76%** at the Korbel Gold Deposit. All initial metallurgical test work results are consistent with Nova's expectation that supports a future low strip, bulk mining, heap leach mining operation. print of the mineralization.



Fort Knox gold mine, Alaska heap leach pad

25 Samples	Au_FA	AuCN_2hr	AuCN_12hr	AuRec_2hr	AuRec_12hr
Average	1.23	0.77	0.91	63%	76%

**Table 1. Summary of Results** 

- Twenty five (25) R/C and diamond drill samples rejects were sent for cyanidation (AuCN) analysis at ALS assay laboratory.
- These samples had been analysed for total gold by fire (AuFA) during the resource drilling campaign.
- Leach recoveries were calculated using the AuCN / AuFA ratio.
- The first AuCN analysis was by ALS method AA13, a basic tube leach test utilizing a 30g sample size with a <2 hour leach time and an AAS finish.
- The second AuCN analysis was by ALS method AA14, a more representative bottle roll leach test utilizing a 1kg sample size with a 12 hour leach time, AAS finish.
- The 12 hour bottle roll test showed significantly increased recoveries across the board, establishing a clear positive correlation between leach retention time and recovery.
- 12 hour bottle roll result provides the most representative data to date reflecting how the Korbel Gold Deposit mineralized material will perform in any future heap leach mining operation scenario

# **Future Strategy and Objectives**



## Where Nova Is Going

Nova is currently permitting its next phase of exploration which is expected to include:

- Up to 25,000 m of core drilling focused on expanding Resource Blocks A and B, and initial drill testing of Targets C and D in the Korbel deposit area
- Initial drill testing of other high priority targets on the property including the RPM and Shoeshine prospects
- Property scale compilation of historical exploration data, mapping, drilling and recent Hi-resolution airborne electromagnetic, magnetics, and radiometric data
- Ground Magnetic, Induced Polarization and Resistivity surveys will be used to further define the known targets and guide future drilling programs
- Phase 2 metallurgical studies and comprehensive ore sorting study



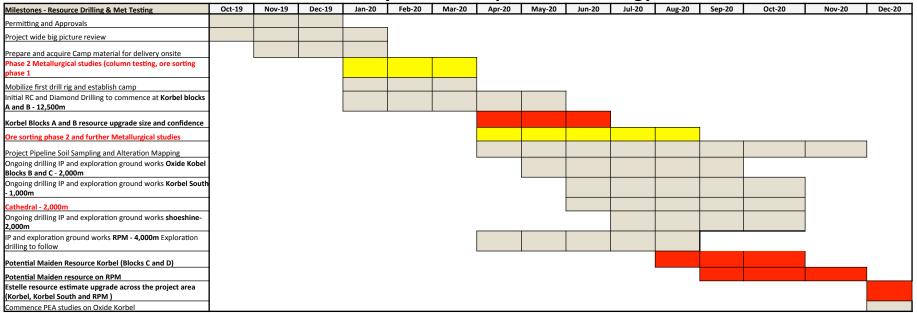
"Nova is confident that the Korbel deposit resource can be expanded significantly and that the deposit has the potential to become a low-cost open pit operation."



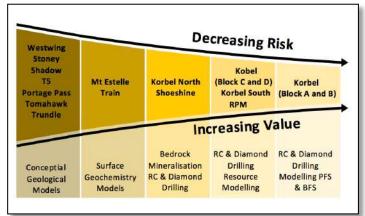
# 2020 drill program, Resource Growth & Development Pipeline



## **Prioritised systematic exploration strategy**



The Company's ranked and prioritised systematic exploration strategy and activities at Estelle are guided by an exploration "Project Pipeline" process to maximise the probability of multiple major discoveries. Each Milestone is defined by a specific deliverable and has each criteria needs to be ticked to determine which prospect must pass through before moving to the next Milestone. Economic criteria and probability of success increase as projects move along the pipeline. The methodology helps to ensure work is carried out across all stages of the process, cost are kept minimal and that focus is kept on the best quality targets and that the pipeline is kept full with early Milestone projects.



# 2020 drill program and Resource Growth Pipeline (ASX: 9 December 2019)



Nova Confirms Priority Targets for Drilling at the Estelle Gold Project to increase Resource Size and Confidence

Korbel Blocks A, B, C and D

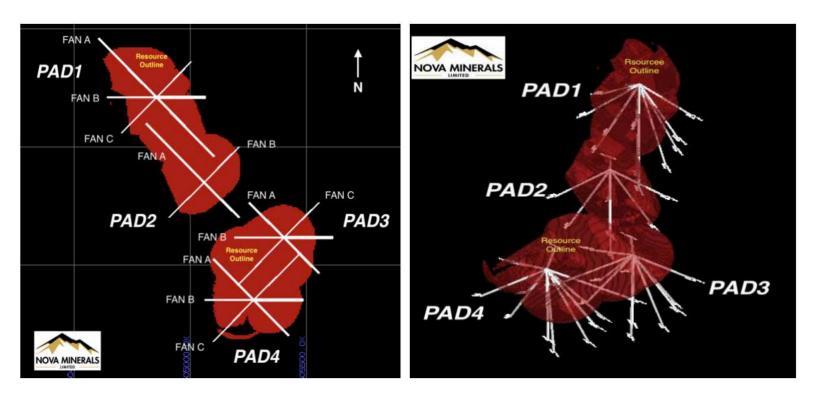


Figure 1: Holes planned at Korbel Blocks A and B

# **RPM Prospect**

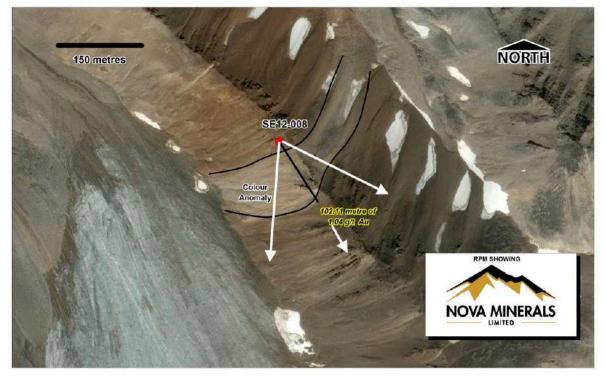


## **RPM Prospect**

Historical diamond drill hole SE12-008 completed in 2012 was re-sampled by Nova as part of the 2019 field program. In the 2020 field season an aggressive program of follow up drilling, prospecting, mapping, and geophysical surveys will be conducted to further define the footprint of the mineralization.



SE12-008	From (m)	To (m)	Grade g/t	Width
Intersection	4.27	180.78	0.79	177.39
Includes	26.00	146.40	1.02	120.40
Includes	75.19	125.36	1.76	50.17

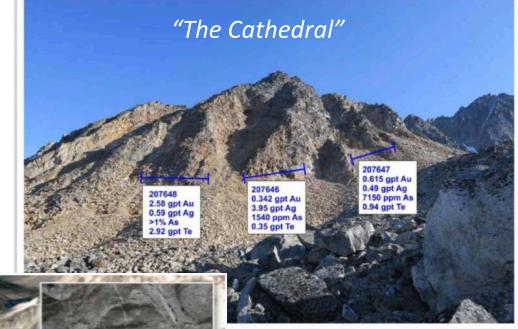


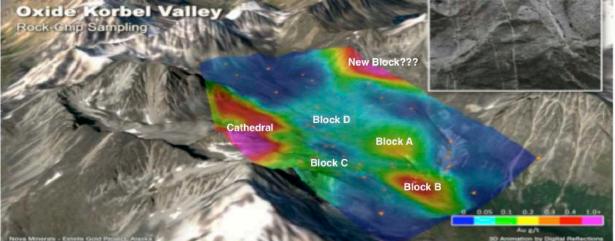
Initial drill location planned at RPM

# Korbel South Prospect (ASX: 03 December 2018)



Chip sample stations 207646-207648 in general South Korbel map area, illustrating metallic values across three, ten meter chip sample sites (30 metre). The average grade of the sampled area is 1.17 g/t gold, 6,230 ppm arsenic, 1.67 g/t silver, and 1.40 g/t tellurium. In addition, sample 207646 contained 1,295 ppm copper.

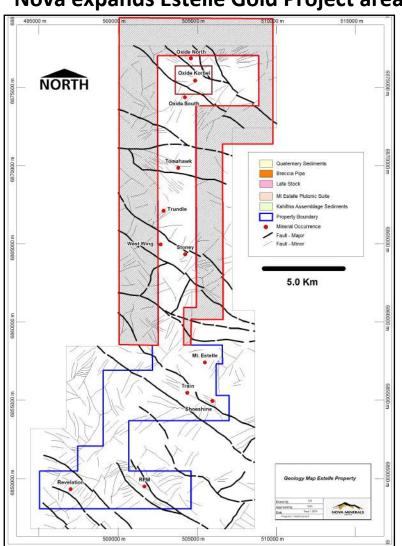




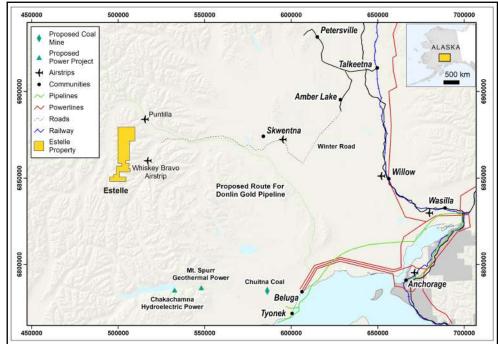




## Nova expands Estelle Gold Project area by 86% to 220km2



Additional 101.65 km2 tenement secured adjoining the current Estelle Gold Project area in Tintina Gold Belt, Alaska – This brings Nova's total landholding in the region to **220km²** of high-quality prospective gold ground.



# Capital Structure and shareholders



Capitalization	
Share Price	\$0.047
12 Month Range	\$0.012-\$0.071
Market Cap (undiluted)	\$48m
Issued Shares	1023.48m
Listed Options (NVAO) [OPTIONS EXP 31/08/20 @ 3.25 CENTS]	482.74m
Unlisted options [EXP 19/09/2022 @ 4C]	61m
Unlisited options [EXP 28/10/2022 @ \$0.056]	1.5m
Cash	~A\$6m

## **12 Month Share Price History**



Top holders	Share owned	Percentage of Shares Issued and Outstanding
J P MORGAN NOMINEES AUSTRALIA PTY LIMITED	53,119,711	5.70
BNP PARIBAS NOMINEES PTY LTD	33,906,942	3.64
SL INVESTORS PTY LTD	33,551,389	3.60
KUSHKUSH INVESTMENTS PTY LTD	30,303,750	3.25
MR PETER ANDREW PROKSA	24,091,209	2.58
SWIFT GLOBAL LTD	22,021,303	2.36

# **Directors and Management**



### Avi Kimelman

### Executive Chairman & CEO

Avi Kimelman is the managing director and founder of Carraway Corporate, a corporate advisory business. Avi has been a director of a number of publicly listed and unlisted companies and during that time, has been involved in mining exploration and production, property development and investment, technology, education. Mr Kimelman has directly assisted companies raising many millions of dollars in capital, mergers and acquisitions, initial public offerings and reverse takeovers for various ASX listed companies. Mr Kimelman is currently MD and CEO of Nova Minerals Limited. In Addition he serves as Non Executive Chairman of Cohiba Minerals Limited (CHK)

### **Louie Simens**

### **Executive Director**

Louie Simens a decade of experience in micro-cap equities and start-up investing, including experience in corporate restructuring, due diligence, and mergers and acquisitions. Prior to entering the junior resources sector, he owned and operated a successful civil and building construction business, where he gained extensive knowledge of corporate governance and project management. Mr Simens understands the fundamental parameters, strategic drivers and market requirements for growth within the junior resources sector.

### **Christopher Gerteisen**

### Non-Executive Director and Incoming CEO

Mr Gerteisen has over 20 years of experience as a professional geologist with an extensive record of managing and advancing complex and challenging resource projects across North America, Australia, and Asia. Most recently, through his technical contributions and management skills, played a significant role in the successful start-up, operations, and exploration which resulted in further mine-life extending discoveries at several prominent projects in the Australasian region, including Oxiana's Sepon and PanAust's Phu Bia in Laos. Mr. Gerteisen holds a BSc. Geology from the University of Idaho and a MSc. Economic Geology from the Western Australia School of Mines. He is a dual USA and Australia Citizen based in Alaska and a member of the Australian Institute of Geoscientists.

### **Avi Geller**

### Non-Executive Director

Avi Geller has extensive investment experience and a deep knowledge of corporate finance, including capital markets, venture capital, hybrid, debt and private equity. He served as Chief Investment Officer of Leonite Capital, a family office he co-founded focusing on on real estate and capital markets. Mr. Geller also serves as a director of the real estate company Parkit Enterprise Inc (TSX-V: PKT | OTCQX: PKTEF) and the events and technology company Dealflow Financial Products. He previously served as chairman of Axios Mobile Assets.

# Management



### **Dale Schultz**

## Technical Lead / Chief Geologist

Dale Schultz has over 30 years of experience in the mining and exploration industry in North and South America. He has a M.Sc. from the University of Saskatchewan and is a registered Professional Geoscientist in the provinces of Manitoba and Saskatchewan. Over the years, Mr. Schultz has been the Qualified Person (QP) for a number of projects including Solex Resources' Pilunani and Macusani projects in Peru, Channel Resources' El Mozo project in Central Ecuador, Aurelians' Bonza-Penus resource campaign on the Condor Project in Central Ecuador, Majescors' Douvray porphyry copper-gold project in Haiti, and spent time at Battle Mountains' Kori Kollo mine in Bolivia. Mr. Schultz also brings with him invaluable experience ranging from initial exploration stages through to underground and open pit mine production of large gold systems.

### **Brian Youngs**

### Head of Exploration and Logistics

Brian Youngs heads exploration and logistics at Nova. He is a Certified Technician with the Ontario Association of Certified Engineering Technicians and Technologists and a member of the Canadian Institute of Mining, Metallurgy and Petroleum. Mr Youngs completed with Honours a diploma in Mining Engineering Technician and post-diploma in Geographic Information Systems (Applications Specialist Program). He has a robust understanding of geology, mineralogy and mineral processing and was awarded for excellence in the subject of Geology.

### **Michael Melamed**

### **CFO**

Michael is a chartered accountant who has worked in top tier accounting firms and banks, Michael brings to the Company over 20 years' of extensive experience in accounting, corporate advisory, M&A, Corporate restructuring and acts as a CFO for several listed and unlisted entities. Michael brings to the Company his extensive network and business opportunities.

Since joining Nova, Michael has held several positions within the Finance function. Michael has a strong background in financial reporting, business processes, M&A, and investor relations. Michael is a Member of Institute of Chartered Accountants, Australia and has a - Bachelor of Business (Accounting & Finance) University of Technology, Sydney (UTS).

## **Ian Pamensky**

## Company Secretary

Mr Ian Pamensky is a Chartered Accountant and member of FinSIA, Ian has over 22 years of experience working across a wide range of industries, from audit and funds management to mining. His large and diverse set of financial, commercial and company secretarial skills has armed him with the knowledge and desire to help businesses boost their success. No matter what the challenge, how small the question, or how complex the numbers Ian dedicates himself to guidance and support, always with the view to grow and keep growing.

# **Competent Person Statement**



Mr *Dale Schultz P.Geo.*, Principle of DjS Consulting, who is Nova groups Chief Geologist and COO of Nova Minerals subsidiary Snow Lake Resources Ltd., compiled the technical information in this presentation and is a member of the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), which is ROPO, accepted for the purpose of reporting in accordance with ASX listing rules. Mr Schultz has sufficient experience relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Schultz consents to the inclusion in the report of the matters based on information in the form and context in which it appears.



## **For More Information contact:**

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