



**PACIFIC BAY**  
MINERALS

**TSXV: PBM**



**ATLIN GOLDFIELDS**

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# ATLIN GOLDFIELDS - OPPORTUNITY



*Atlin features a vast corridor of bonanza-grade gold mineralization that remains to be explored at both district and regional scales. PBM is excited to present this opportunity with **rapid—growth potential***

# ATLIN GOLDFIELDS - HIGHLIGHTS

- **Underexplored, district-scale** gold property with 58,211 hectares of mineral tenures
- Defined **high-grade, near-surface** orogenic gold deposit systems including the Yellowjacket mine, along with the LD and Union prospects featuring at-surface, high-grade gold mineralization
- Excellent access to infrastructure (airstrip, roads, power) with the town of **Atlin just 10 minutes to the Yellowjacket deposit**
- District scale, high-grade gold placer mining still in operations today. Largest gold nugget in Canada discovered on claims (Spruce Creek, 77 troy ounces, 1899)
- **75,000 ton-per-year mining permit (Yellowjacket Mine) and MYAB exploration permits already in place**
- **Green, hydroelectric energy locally available**
- **Ultramafic tailings presents opportunity for carbon-capture**

# LOCATION

## Located In Northwest British Columbia

### 5 Kilometers East of Atlin, BC (A)

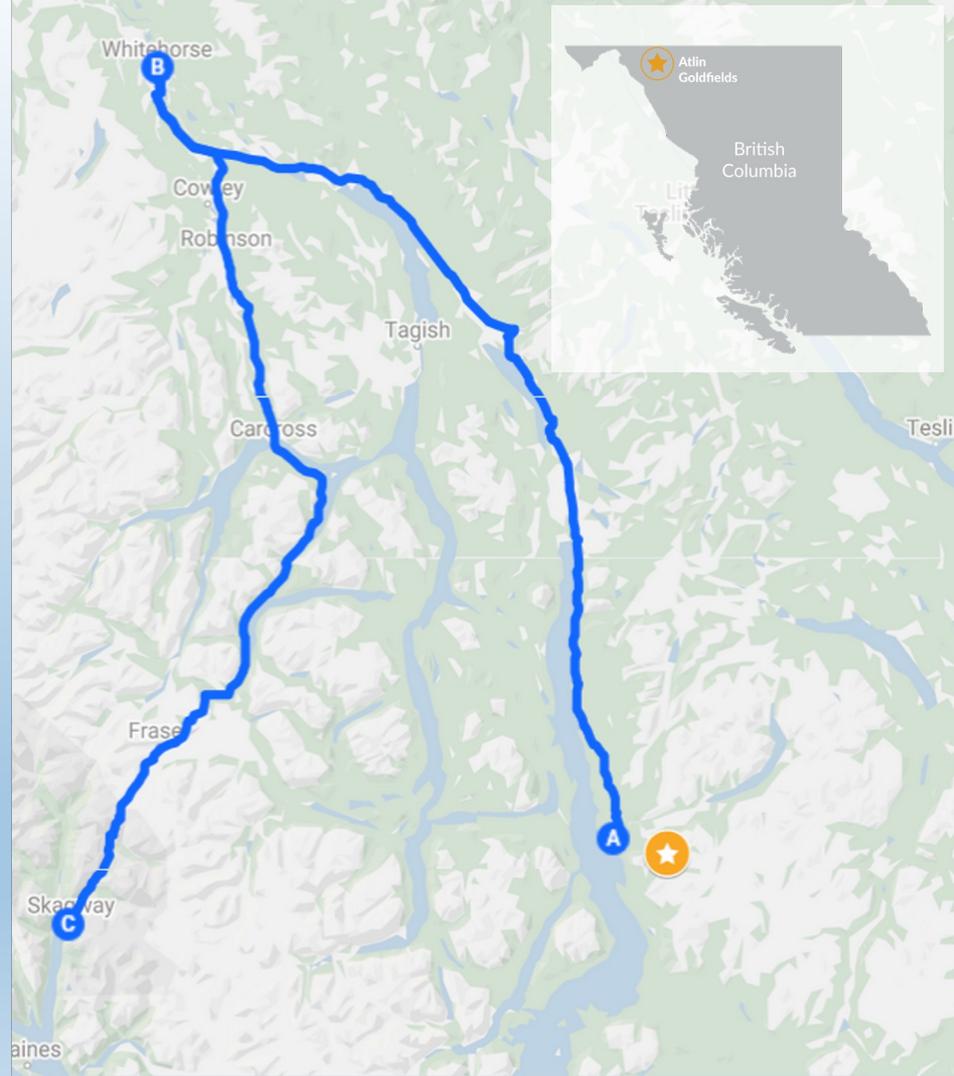
- Strategic access to nearby infrastructure
- Airstrip
- Year-round road access

### 175 km Southeast of Whitehorse, Yukon (B)

- Flights from Vancouver, BC and Calgary, AB
- All amenities to service exploration
- Paved highway to Atlin, BC

### 249 km East of Skagway Port (C)

- Port access

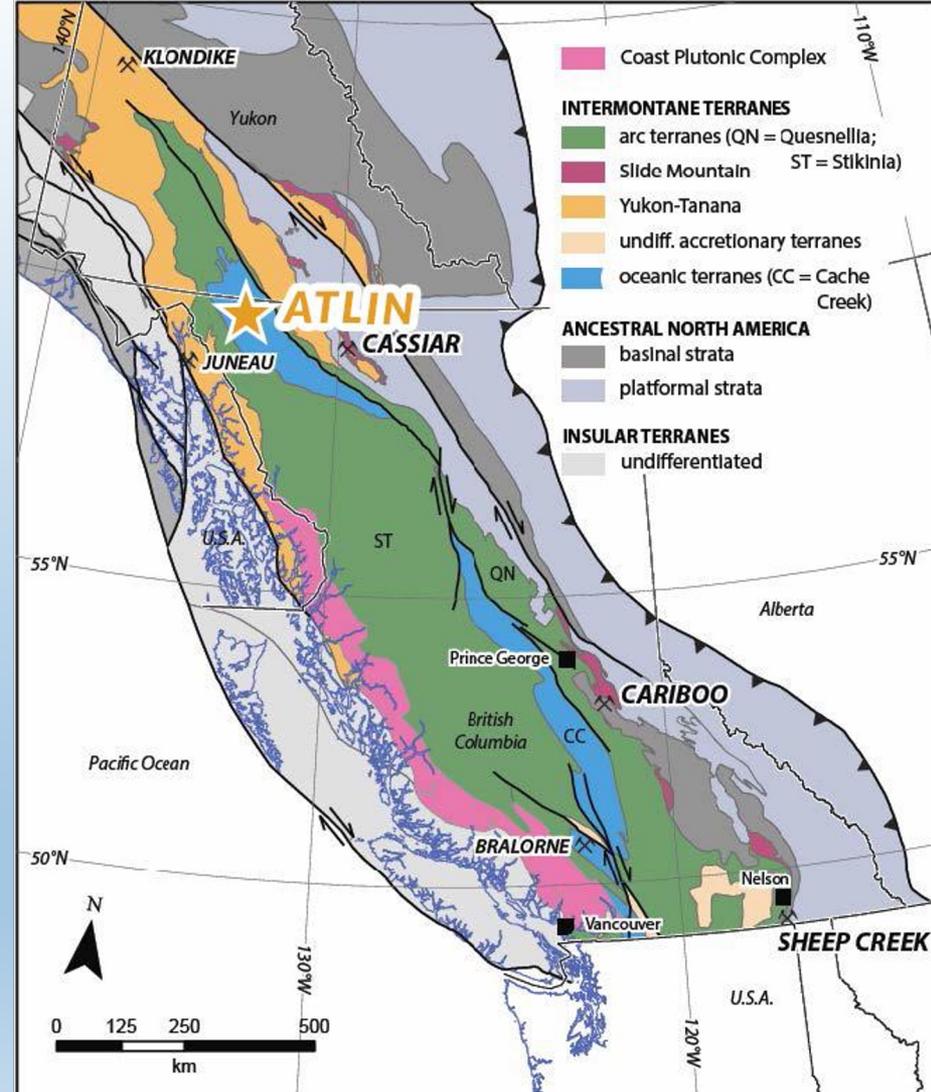


# TERRANE

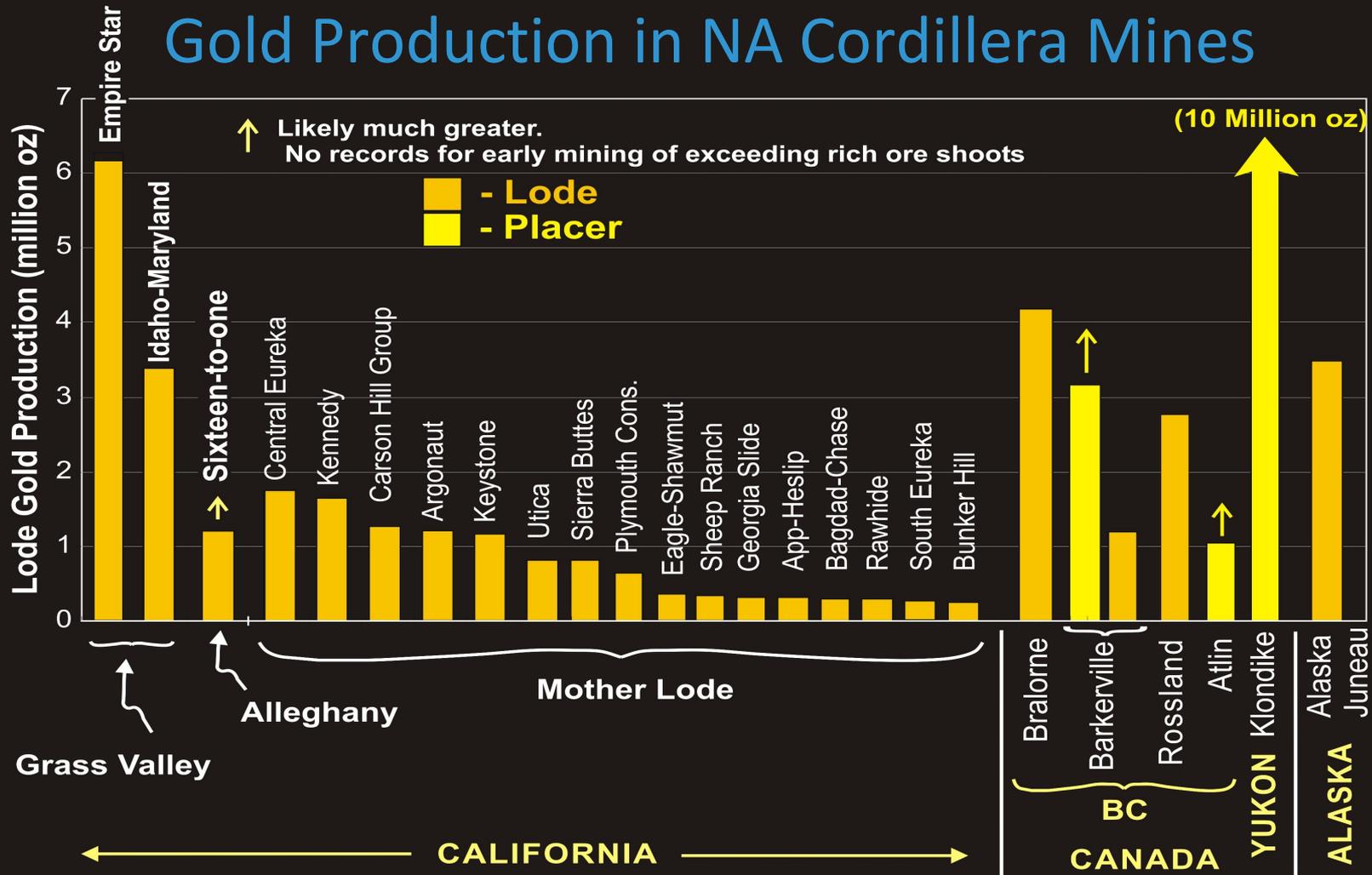
## Cordilleran Orogenic Gold Deposits

### Cache Creek Terrane (blue on map)

- Significant portions of the land package overlie an accretionary thrust complex known as the Cache Creek Complex, within the Intermontane Terranes
- **Atlin Ophiolite Assemblage:** shallow thrust fragments of oceanic and upper mantle rocks
- **Atlin Accretionary Assemblage:** predominantly deeper and younger sequence of metasedimentary and limestone rocks
- Orogenic shear zone corridors along the contact of both assemblages are highly prospective for mesothermal gold mineralization



# Gold Production in NA Cordillera Mines



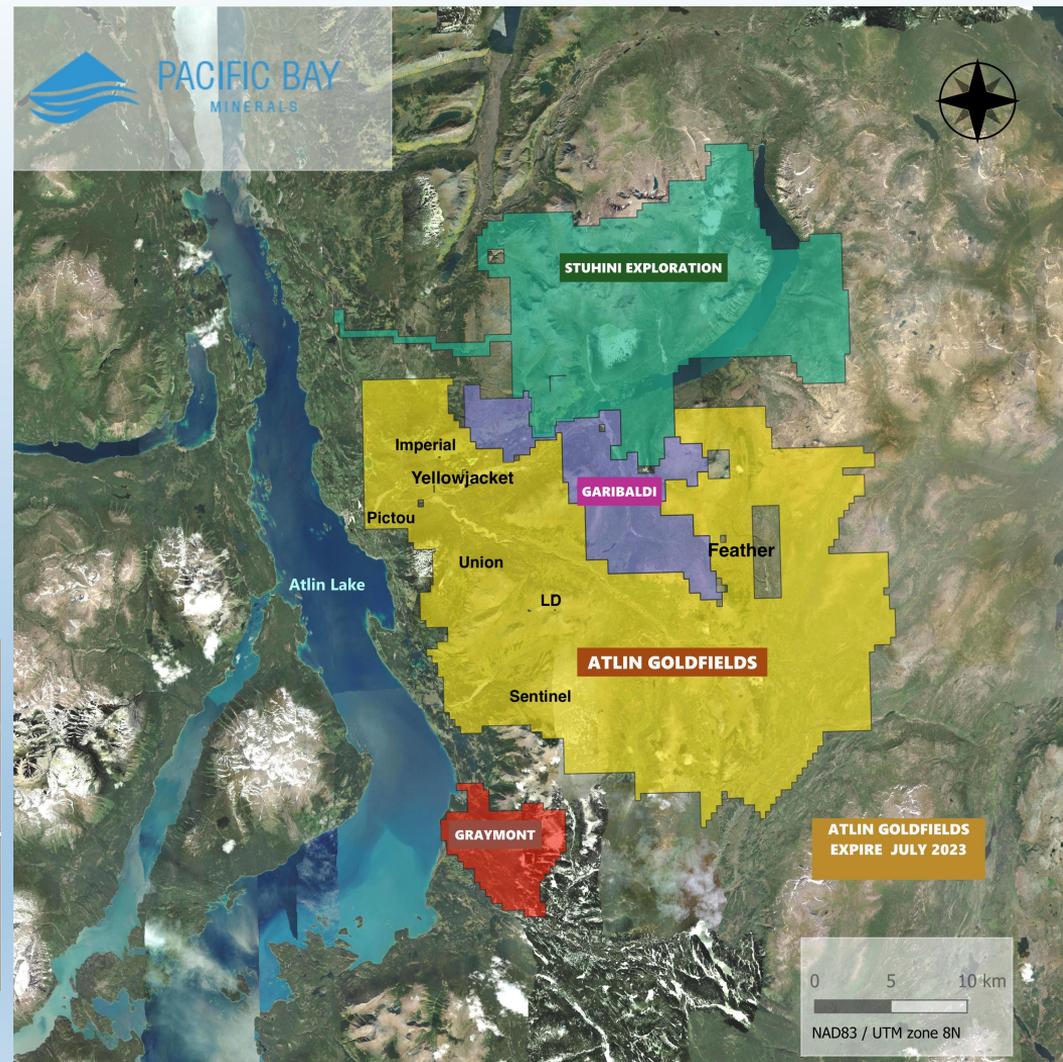
# PROPERTY OVERVIEW

- 58,211 hectares of Mineral Tenures
- Mesothermal gold, as well as intrusive-related prospects, in the Feather zone with anomalous soil geochemistry results related to placer gold found.
- Spruce, Birch, Otter, Ruby and Pine Creeks all produced 10s of thousands of ozs before 1945\*

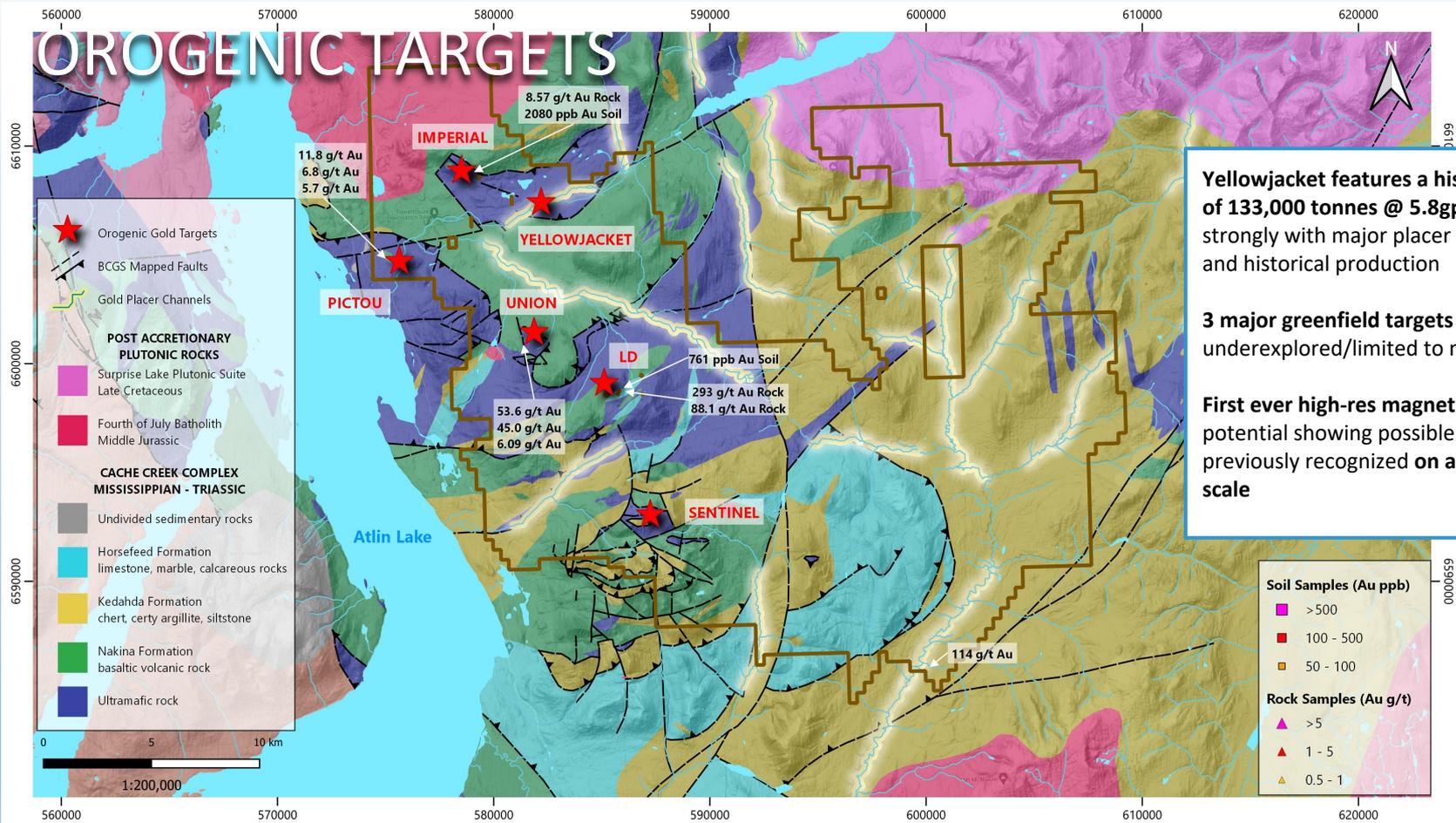


OVER 200 OUNCES OF PLACER GOLD WAS RECOVERED FROM THE 40X70 METRE PIT AREA

BC MEM BCGS Bulletin 108, C.H. Ash 2001



# OROGENIC TARGETS



**Yellowjacket features a historic resource of 133,000 tonnes @ 5.8gpt correlating strongly with major placer gold channels and historical production**

**3 major greenfield targets that are underexplored/limited to no drilling**

**First ever high-res magnetics survey potential showing possible new targets not previously recognized on a kilometer-scale**

# YELLOWJACKET MINE – DRILLING & RESOURCE

2009 Historic Mineral Resource Estimate - Yellowjacket Mine*				
Class	Tonnage	Gold (g/t)	Ounces	Cut-off Grade (g/t)
Inferred	133,000	5.8	24,000	1.5

- **Shallow Hole Depth:** Longest hole depth is 276 metres with average hole depth of 132 metres
- **Bonanza Gold Results:** Mesothermal gold mineralization is often nuggetty - Highest recorded drill interval of 62.79 metres grading 49.80 gpt Au (YJ03-01) starting from 11 meters depth
- **Opportunity:** Historic drilling has been focused on singular quartz vein drilling. Opportunity to explore the entire mineralized shear zone corridor with deeper holes and different orientations (most drilling is orthogonal to the Pine Fault) to intercept secondary cross-structures that have been proven to host gold outside of the main zones, **increasing the current resource grade and growing the overall resource**

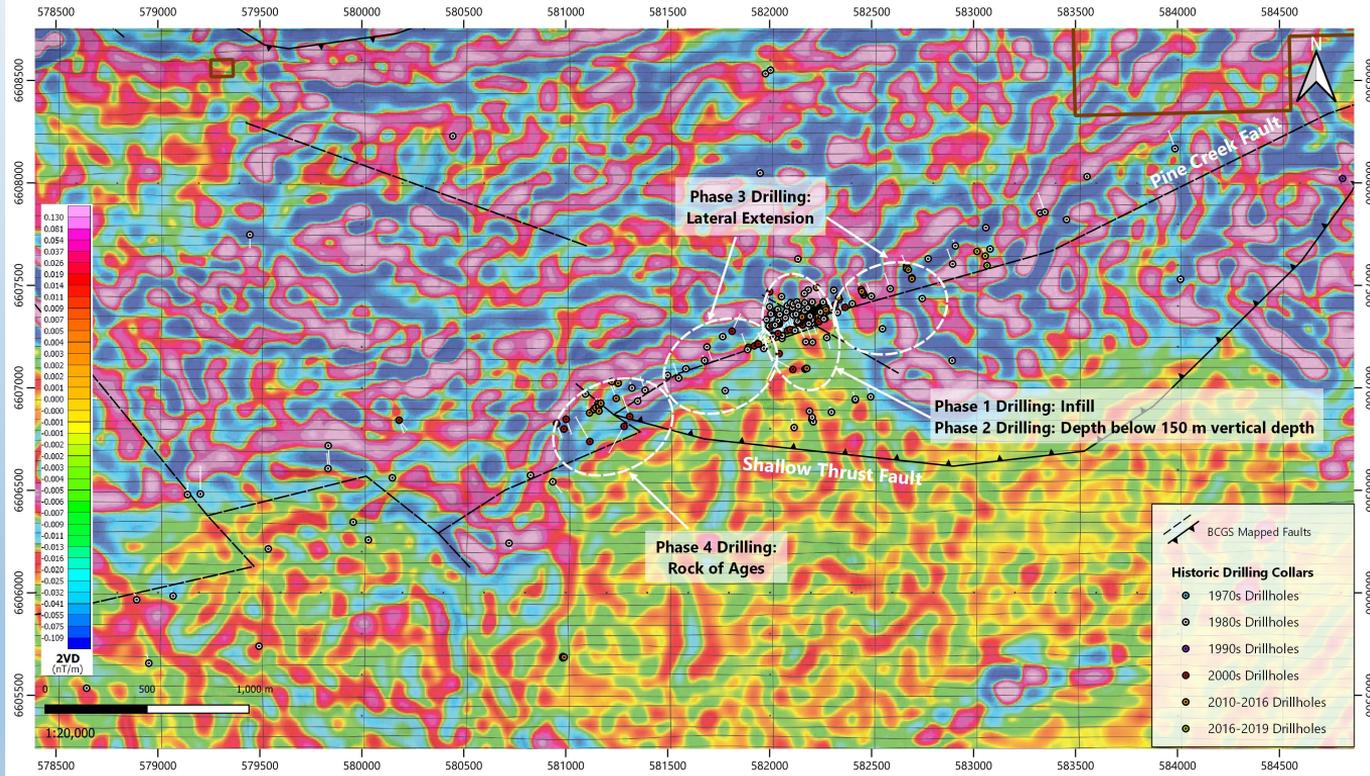
*\*Resource estimate for the Yellowjacket mine from report "Technical Report Yellowjacket Gold Project" prepared by Linda Dandy and B.J. Price Geological Consultants Inc., dated January 27, 2010. A qualified person has not done sufficient work to classify the historic estimate as current mineral resources or mineral reserves. As such the issuer, Pacific Bay, is not treating this historical estimate as current mineral resources or mineral reserves.*

# YELLOWJACKET – HISTORICAL DRILL RESULTS

- Historical drilling at **Yellowjacket** totals 25,767 metres distributed over 319 drillholes.
- YJ03-01 returning **62.79m of 49.8 gpt**
- Similar mesothermal deposits (Barkerville, Bralorne, Grass Valley) **all multi-million ounce projects**
- Select historic drill holes are shown in this table.

Hole ID	From (m)	To (m)	Interval (m)	Au (gpt)	Grade Thickness (gpt * m)
YJ03-01	11.28	74.07	62.79	49.80	3,127
<i>including</i>	<i>13.94</i>	<i>15.62</i>	<i>1.68</i>	<i>1671.54</i>	<i>2,808</i>
<i>including</i>	<i>35.66</i>	<i>44.50</i>	<i>8.84</i>	<i>20.12</i>	<i>178</i>
TW05-02 (twined Y03-01)	10.67	71.32	60.65	14.25	864
<i>including</i>	<i>10.67</i>	<i>12.79</i>	<i>2.12</i>	<i>288.22</i>	<i>611</i>
<i>including</i>	<i>37.50</i>	<i>38.50</i>	<i>1.00</i>	<i>86.83</i>	<i>87</i>
YJ04-07	20.00	60.96	40.96	6.48	265
<i>including</i>	<i>53.40</i>	<i>54.45</i>	<i>1.05</i>	<i>221.13</i>	<i>232</i>
YJ04-20	9.75	146.00	136.25	1.36	185
<i>including</i>	<i>140.00</i>	<i>141.00</i>	<i>1.00</i>	<i>142.40</i>	<i>142</i>
YJ04-22	8.69	125.58	116.89	0.94	110
YJ04-29	67.20	70.50	3.30	18.35	61
YJ04-35	104.25	109.30	5.05	12.21	62
YJ04-01	92.00	93.50	1.50	43.23	65

# YELLOWJACKET MULTI-PHASE DRILLING PROGRAM



Recent High-Res Mag survey shows **~5km trend** with only 400m lateral meters of shallow drilling

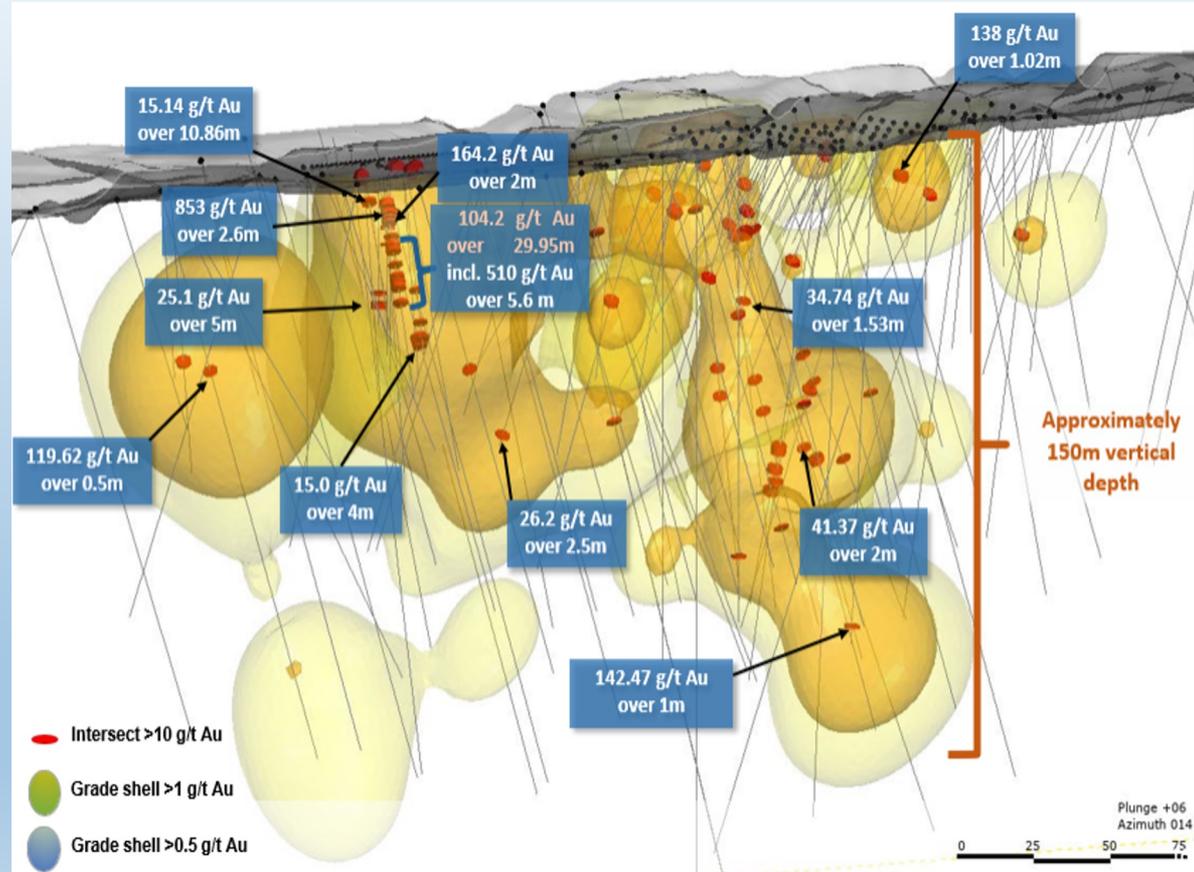
Expand both laterally and at depth to both build ounces and make new additional discoveries unlocked by additional geophysics (more mag + IP)

Testing extensional targets and **connect mineralized occurrences** across vast geologic trend.

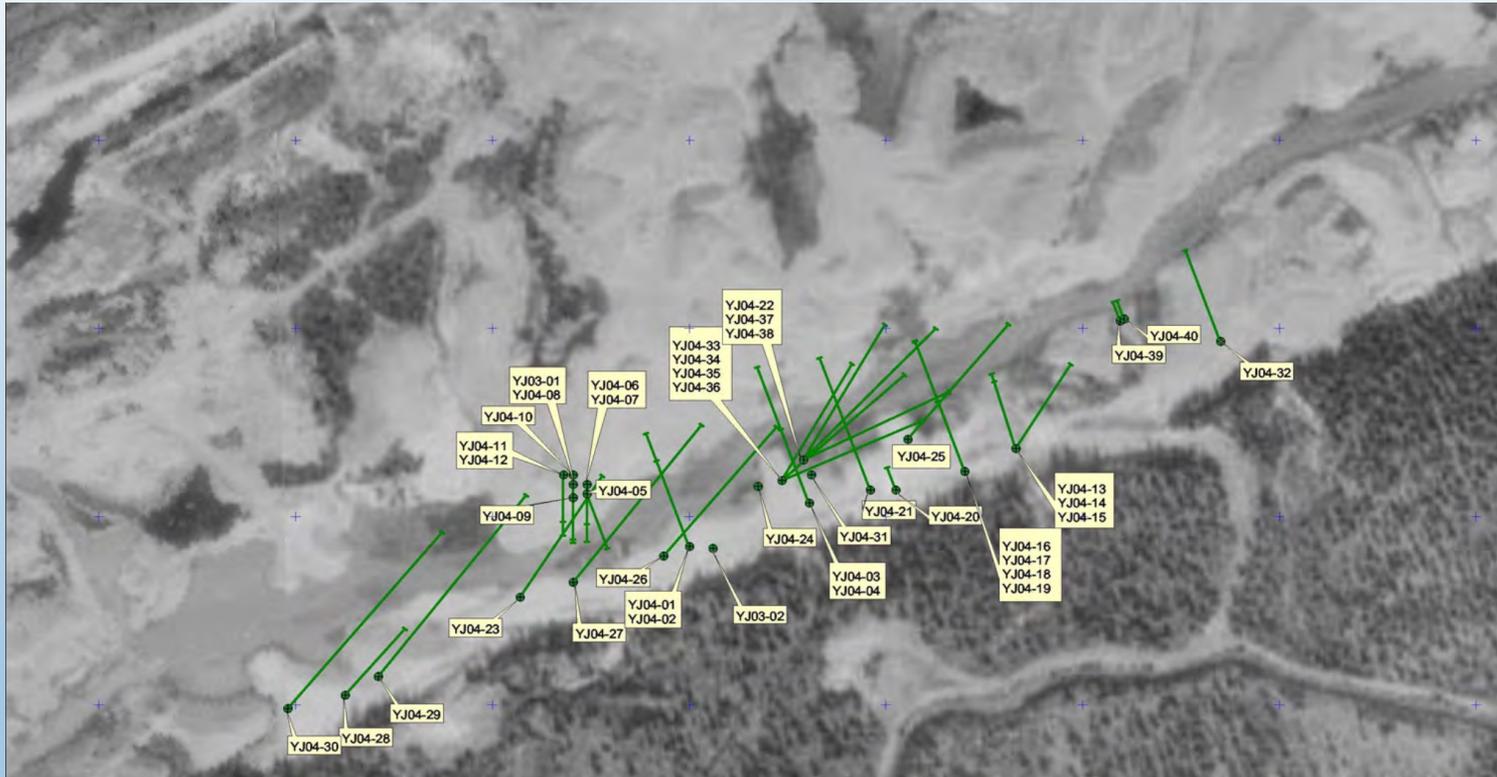
# YELLOWJACKET – HIGH GRADE GOLD

- Yellowjacket 3D model displaying idealized gold grade-shells for pre-2018 drilling (Northerly view).
- Many low/no grade zones targeted for additional drilling (currently modeling)
- Underground ramp design was done by Prize but deemed too expensive in 2006 for bulk sample

*Readers are cautioned that a Qualified Person for Pacific Bay has examined but not done sufficient work to verify the historical drilling results, and there is a risk that any future confirmation work and exploration may produce results that substantially differ from the historical results. Pacific Bay considers these drilling results relevant to assess the mineralization and economic potential of the property.*



# NEW INTERPRETATIONS FROM PREVIOUS DRILLING



PRIZE DRILL HOLES – AT A DIFFERENT ORIENTATION THAN PRIOR HOMESTAKE HOLES (DRILLED TOWARD THE SOUTH) DUE TO NEW GEOLOGIC INTERPRETATION WHICH LED TO AN INCREASE IN HIGH GRADE GOLD DRILL INTERCEPTS

- Prize Mining performed a bulk sample in 2008 and averaged a head grade of **9 grams/ton\* from 2880 tonnes.**
- Nuggety gold makes for extremely high grades but relatively inconsistent – historical resource (5.8 gpt) contains low value intercepts making for an **excellent grade increase potential in current deposit**
- Multiple geophysical surveys planned to help expand **widespread, high grade gold mineralization** in 2023 **multi-phase drill program**

HOLE #	FROM (m)	TO (m)	WIDTH (m)	GOLD (g/t)
YJ03-01	13.95	19.51	5.56	<b>513.50</b>
	21.96	22.87	0.91	<b>21.06</b>
	25.00	26.52	1.52	<b>40.42</b>
	35.97	39.02	3.05	<b>34.81</b>
	42.99	44.21	1.22	<b>57.88</b>
YJ03-02	50.30	50.91	0.61	<b>16.28</b>
YJ04-01	92.50	93.00	0.50	<b>128.15</b>
YJ04-07	38.66	37.16	0.50	<b>24.61</b>
	48.85	54.45	6.10	<b>40.10</b>
	53.40	53.71	0.31	<b>588.87</b>
	53.95	54.45	0.50	<b>98.85</b>
YJ04-17	33.10	33.60	0.50	<b>19.41</b>
YJ04-20	140.00	141.00	1.00	<b>142.40</b>
YJ04-22	31.50	32.00	0.50	<b>16.19</b>
	106.80	107.30	0.50	<b>156.95</b>
YJ04-27	68.85	69.35	0.50	<b>22.43</b>
YJ04-29	68.00	68.50	0.50	<b>119.62</b>
YJ04-33	57.50	58.00	0.50	<b>20.04</b>
	80.65	81.15	0.50	<b>16.76</b>
	91.80	92.30	0.50	<b>31.30</b>
YJ04-35	106.70	107.40	0.70	<b>47.24</b>
	107.40	108.00	0.60	<b>15.80</b>
	108.00	108.80	0.80	<b>21.17</b>
YJ04-36	87.00	87.50	0.50	<b>31.70</b>
YJ04-37	109.50	110.00	0.50	<b>23.11</b>

HOLE #	FROM (m)	TO (m)	WIDTH (m)	GOLD (g/t)
YJ05-42	65.40	66.60	1.20	<b>15.20</b>
TW05-01	12.20	12.90	0.70	<b>29.78</b>
TW05-02	10.67	12.79	2.62	<b>853.29</b>
INCL.	10.67	11.58	0.91	<b>2397.59</b>
INCL.	11.58	12.19	0.61	<b>74.51</b>
AND	20.05	41.50	21.45	<b>11.49</b>
INCL.	24.00	25.29	1.29	<b>26.80</b>
INCL.	26.82	27.28	0.46	<b>28.22</b>
INCL.	31.00	31.50	0.50	<b>129.00</b>
INCL.	34.50	35.50	1.00	<b>16.13</b>
INCL.	37.50	38.50	1.00	<b>86.83</b>
YJ06-46	89.50	90.22	0.72	<b>18.12</b>

## SUMMARY OF PRIZE'S HIGH GRADE GOLD INTERSECTIONS

*\*NOTE: This historic drilling has not been verified by the current issuer and results cannot be relied upon. However, the issuer has no reason to doubt the reliability of the results and will use this data to guide ongoing exploration programs.*

*Gold intervals represent drill core lengths as deposit geometry is currently being modelled and true width orientations are not known.*



**BULK SAMPLE PIT EXCAVATION**



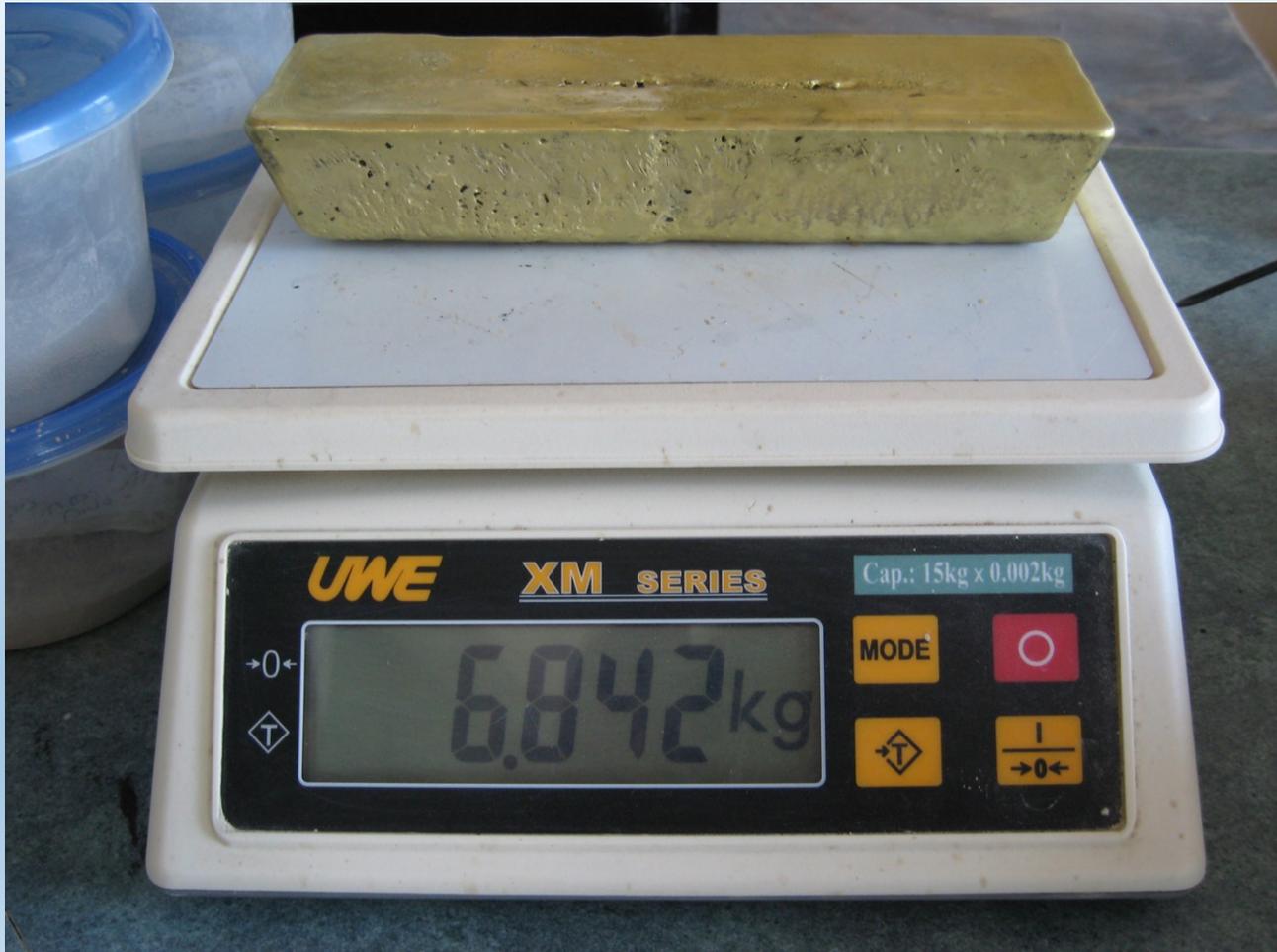
**PLANT SITE**

**CREEK DIVERSION**

**250 TONNE STOCKPILES**

24/07/2007

# Gold Doré Bars



# 2023 Proposed Drilling

Opportunity: Historic drilling has been focused on shallow mineralized structures. Pacific Bay will explore the entire mineralized shear zone corridor with deeper holes.



# COMMITTED TO ATLIN AND LOCAL COMMUNITIES



- Continual work with first nations and local communities to add wealth through **skills development, education and economic opportunities**

- Our exploration activities are planned with consideration for the Atlin District's natural environment, recognizing and appreciating its inherent beauty.
- **Responsible and sustainable** practices that benefit both the societies and environment



# PBM OBJECTIVES SUMMARY

- Complete 3D imaging of high-res magnetic survey and **expand over the LD and Union prospects**
- IP Survey over the existing yellowjacket deposit to identify and drill out additional high-grade zones
- Build 43-101 compliant resource and use models to plan following season's exploration program
- Engage with local placer miners to map and sample exposed bedrock and mineral occurrences in regional targeting
- Engage with the communities and First Nations to continually improve relationships and overall presence in the Atlin and neighbouring districts
- **Add additional projects** bringing significant value to shareholders.

# PBM PROPERTY SUMMARY



## Atlin Goldfields

District scale, high-grade gold prospect. Largest gold nugget in BC (Spruce Creek, 77 troy ounces, 1899).

## Wheaton Creek Gold

Located in the Skeena Mining Division of Northern BC. 4<sup>th</sup> largest gold nugget in BC (Alice Shea, 52 troy ounces, 1937).

## Haskins Reed

Zinc, Silver, Lead, Copper, and Bismuth skarn replacement prospect. 200+ drill holes and substantial underground development completed.

## Weaver Lake Gold

Located approximately 90 km east of Vancouver. The property consists of narrow quartz vein prospects with gold and silver mineralization.

# PACIFIC BAY: LEADERSHIP



**Reagan Glazier**

CEO, President, Director

15+ years of experience in mining exploration, development, operations, and capital markets in the mining sector.



**David Brett MBA**

Independent Director

35+ years of experience in exploration, development, operations, and executive management in the mining sector.



**Cameron MacDonald**

Independent Director

18+ years of experience in capital markets and operations from over 80 public and private companies.



**Lea Brett**

CFO

30+ years of experience in financial and corporate governance in the mining sector.



**Antonio Vespa**

Independent Director

10+ years of experience in engineering, project management, planning, and operations in the natural resource sector.



**Frank Moyle**

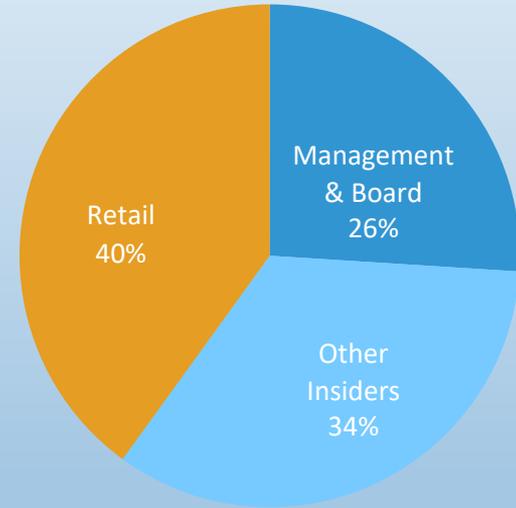
Independent Director

25+ years of experience in exploration, development, and operations in the mining and oil & gas sectors.

# PBM CAPITAL STRUCTURE

## Share Ownership

Shares Outstanding	24,266,584
Warrants	7,752,423 (\$0.10)
Options	1,400,000 (\$0.15)
Fully Diluted	33,419,007



# PACIFIC BAY MINERALS LTD.

[www.pacificbayminerals.com](http://www.pacificbayminerals.com)

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President and CEO

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