

# PORTFOLIO OF ADVANCED PROJECTS

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Gold

# DISCLAIMER

The purpose of this Argentine Government publication is to disseminate third-party information on the exploratory results of advanced projects and the country's geological mining potential.

The information was obtained through different sources, mainly from public access websites of the operating/controlling companies and from technical reports published by them in different web pages under international standards in order to guarantee a higher degree of reliability.

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# ADVANCED GOLD PROJECTS



## CAPEX

1,589e M USD

2

## FEASIBILITY (FS)

1 - LAMA  
2 - SUYAI

1

## PEA (Pref. Econ. Asses.)

3 - TAGUAS



## IDENTIFIABLE RESOURCES

14.3 M oz Au

23

## ADVANCED EXPLORATION

4 - ALTOS DEL CURA  
5 - CALCATREAU  
6 - CLAUDIA  
7 - CONSERRAT  
8 - DEL CARMEN  
9 - DON JULIO  
10 - DON SIXTO  
11 - EL DORADO MONSERRAT  
12 - ESCONDIDO  
13 - HUALILÁN  
14 - JAGÜELITO  
15 - LA JOSEFINA  
16 - LA MANCHURIA  
17 - LAS CALANDRIAS  
18 - LAS OPENAS  
19 - LEJANO  
20 - MANANTIALES  
21 - SAN ROQUE  
22 - VIRGINIA  
23 - ZANCARRON



## POTENCIAL ADICIONAL PRODUCCION

Au 481 koz/y  
Ag 13.3 Moz/y

Mt: millions of tons- Moz: million of ounces kt: thousands of tons- koz: thousand of ounces - M USD: Million of dollars





Au

LAMA

1



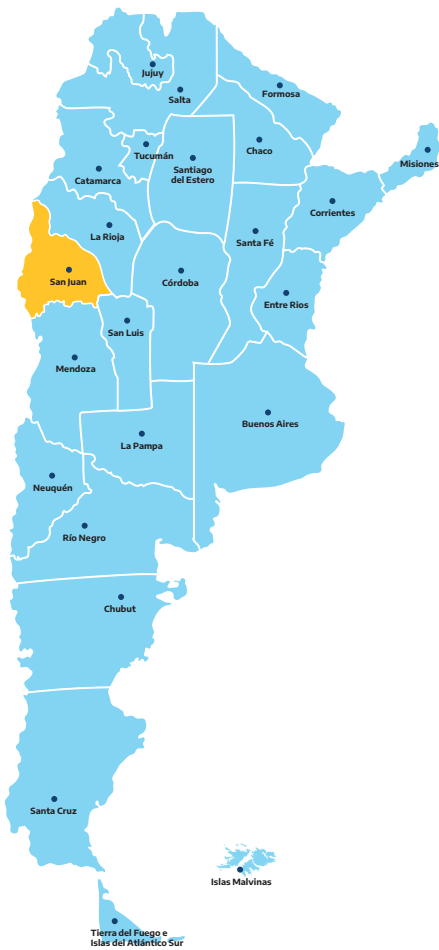
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Argentina

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# LAMA



### LOCATION

(29° 19' 45" Lat. S; 69° 59' 33" Long. W)

Located at more than 4,000 meters above sea level on the border between Chile and Argentina. The property is accessed through a 360-kilometer gravel road from the City of San Juan, capital of the homonymous province, using the same route that provides access to the Veladero mine.



### MINERALIZATION TYPE

High Sulphidation epithermal style (Au-Ag)



### PROPERTY DATA

#### OWNER / CONTROLLER

Barrick Gold Corp.



### OPERATOR

Barrick Exploraciones Argentina S.A.



### AREA

6,747 ha





**Au****LAMA**

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## PROJECT GEOLOGY

### Regional Geology

The geology in the region is dominated by extrusive volcanic rocks that are locally intruded by hypabyssal stocks of varying size and numerous dikes and sills, while the regional structure in and around the gold deposits and prospects in the El Indio belt is dominated by northerly-trending high angle reverse faults, normal faults and fold belts oriented parallel to the major structural grain. Lama is positioned near the center of a northerly trending graben that contains nearly the entire Tertiary volcanic sequence that is distributed along the spine of the cordillera in Chile and Argentina.

### Deposit Geology

Lama area has been the center of repeated intrusive and volcanic activity, beginning with a sequence of dacite and rhyolite ignimbrite ash flows deposited in the early Permian. The flows were then intruded during Late Permian/Triassic time by a granite batholith, which comprises the Pascua Lama granite intrusive complex and occupies the central and eastern portions of the district, the dominant host lithology for the deposit. After a long hiatus that extended into the Oligocene, numerous small diorite stocks and dikes were intruded into the granite complex and volcanics. Dike emplacement continued into the Miocene, followed by deposition of Upper Middle Miocene dacite ash flows. This Miocene intrusive activity was the precursor to the magmatism and associated hydrothermal activity around 8.78-8.79 My that produced the deposit.





LAMA

**Contact**

<https://www.barrick.com/>  
 Telephone: +1 416 861-9911  
 Oficina en Argentina: Tel. 054-264-4298100

**Project Status** FEASIBILITY - RE - ENGINEERING

COMPANY'S LAST ANNOUNCEMENT 2011 - 03 - 31 informe 43 - 101  
 Technical Report Pascua - Lama Project Region III,  
 Chile San Juan Province, Argentina. Barrick Gold

**Resources and Reserves**

RESERVES	Tonnage (Mt)	Grade			Metal Content*	
		Au (g/t)	Ag (g/t)	Cu (%)	Au (oz)	Ag (oz)
Measured	42,81	1,86	57,21	0,10	461,520	27,561,450
Indicated	391,73	1,49	52,22	0,08	3,380,90	230,201,300
Inferred	15,4	1,74	17,83	0,05	155,340	3,090,500

\* the metal content expressed corresponds to the portion on the Argentinean side of the project (Lama).  
 Source: Technical Report 2011-03-31. Barrick Gold Corp.

**Technical and Economic Information**

**Estimated average annual production:**  
 Gold: 330,000 Oz Au/year - Silver: 14 M Oz Ag/year  
**Product to obtain:** Doré (Au-Ag)  
**CAPEX:** 1,200 million USD  
**Estimated annual employment:** 2,462 (e)  
**Estimated LOM:** 23 years  
**Mining Method:** Open pit

**Sources Consulted**

-2011-03-31 Technical Report 43-101 Pascua-Lama. Barrick Gold Corp



**Au**

SUYAI

2



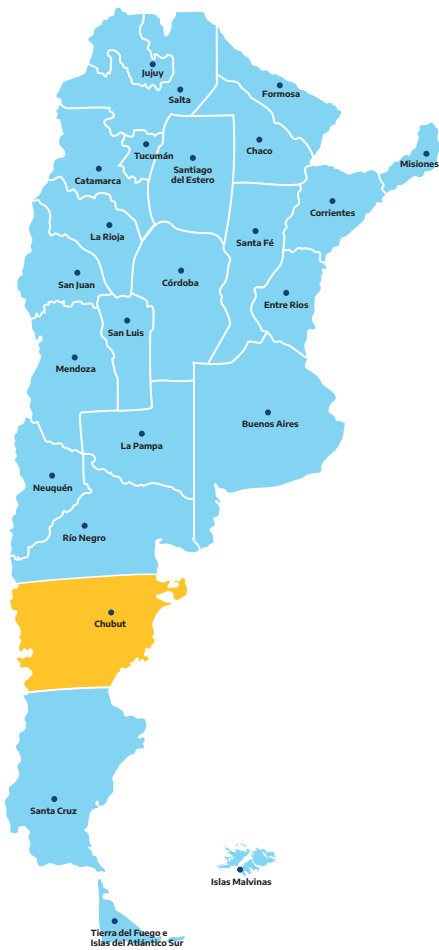
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# SUYAI



### LOCATION

(42° 52' 59" Lat. S; 71° 05' 59" Long. W)

The Suyai Underground Mine project is located on the Esquel mountain range, at a distance of approximately 28 kilometers by road, or 9 kilometers in a straight line from the city of Esquel, in the province of Chubut.



### MINERALIZATION TYPE

Low Sulphidation epithermal style (Au-Ag)



### PROPERTY DATA

#### OWNER / CONTROLLER

Yamana Gold Inc., CAM



### OPERATOR

Suyai del Sur S.A.



### AREA

36,702 ha





## SUYAI

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### PROJECT GEOLOGY

#### Regional Geology

The deposit is located in the Cordón Esquel, a northwest bound elevation where Palaeozoic and Tertiary rocks emerge. The basal unit is a set of Palaeozoic metasediments. They are covered by a marine sedimentary sequence of Jurassic age and in discordance covered by basaltic, andesitic and pyroclastic flows, at the top, of the Upper Jurassic. The sequence is intruded by granites from the Lower Cretaceous and culminates in volcanic and sedimentary deposits from the Tertiary (Oligocene).

#### Deposit Geology

The mineralization system is in epithermal veins of Quartz- Adularia-Sericite, hosted in rocks of andesitic composition of Jurassic age. Precious metals are found by filling in cavities. The veins have an angle of 25° to 35° and are distributed in a structural Yamana Gold News corridor 5 km long and 2 km wide, in gently folded andesitic volcanic rocks.



SUYAI

**Contact**

416-815-0220  
 1-888-809-0925  
 Email: investor@yamana.com

**Project Status** FEASIBILITY

COMPANY'S LAST ANNOUNCEMENT

Yamana Gold announces the grant of an option with joint venture rights in respect of Suyai Project

**Resources and Reserves**

RESERVES	Tonnage (Mt)	Grade		Metal Content	
		Au (g/t)	Ag (g/t)	Au (Oz)	Ag (Oz)
Indicated	4,7	15,13	23	2,286,000	3,523,000
Inferred	0,9	9,9	21	274,000	575,000

**Technical and Economic Information**

**Estimated average annual production:** Gold: 250,000 Oz  
**Product to obtain:** Doré (Au-Ag)  
**CAPEX:** 220 million USD  
**Estimated annual employment:** N/A  
**Estimated LOM:** 8 years  
**Mining Method:** Underground

**Sources Consulted**

- [https://s28.q4cdn.com/334653565/files/doc\\_financials/2020/ar/AIF-March-2021-Final.pdf](https://s28.q4cdn.com/334653565/files/doc_financials/2020/ar/AIF-March-2021-Final.pdf)
- <https://www.sec.gov/Archives/edgar/data/1264089/000126408918000005/ex9912017aif.htm>
- Registros de Dirección Nacional de Inversiones Mineras (MEM)
- Meridian Gold Inc. Esquel Gold Project, Argentina. Technical Report, March 31, 2003



Au

# TAGUAS

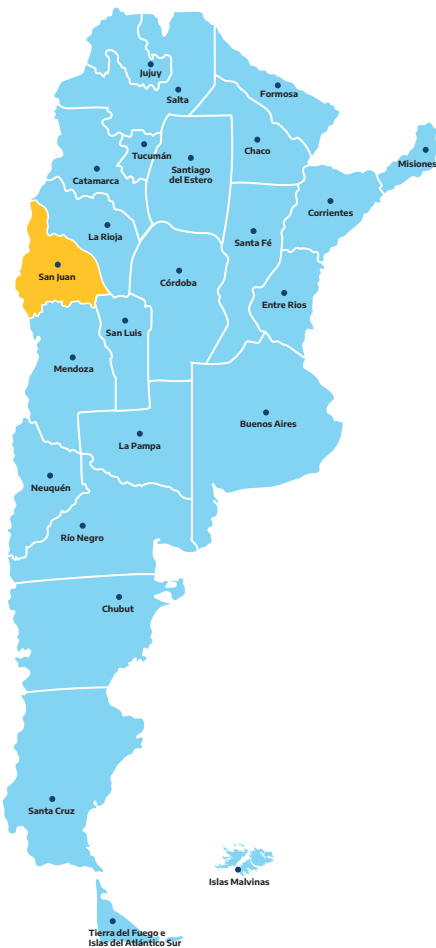
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# TAGUAS



### LOCATION

(29° 11' 27.79" Lat. S; 69° 52' 35.98" Long. W)

Access to the site is from the town of Tudcum, located 200 km from the city of San Juan. To reach Taguas, the 148 km mining road that links Tudcum to the Veladero gold mine is used. From Veladero one must travel 25 km further north along the Las Taguas River to reach the Project camp.



### MINERALIZATION TYPE

High Sulphidation epithermal style (Au-Ag)



### PROPERTY DATA OWNER / CONTROLLER

Orvana Minerals Corp.



### OPERATOR

Compañía Minera Piuquenes S.A.



### AREA

3,274 ha





# TAGUAS

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## PROJECT GEOLOGY

### Regional Geology

Taguas is located at the northern end of the Cura Valley volcanic belt, of tertiary age, and on the eastern flank of the El Indio metallogenic belt (Siddeley and Araneda, 1990). The physical continuity of the volcanism and stratigraphy of the thin Chilean Cura Valley volcanic belt has been confirmed by several regional studies (Ramos 1995, 1998 and Godeas et al., 1993). The Cura Valley belt has similarities with the Chilean flank in both age and type of basement and alterations (Davidson and Mpodozis, 1991) and is an extension of the El Indio belt in Argentina.

### Deposit Geology

The Taguas property is home to a high-sulfidation gold-silver epithermal system housed in altered Tertiary volcanic rhyolites. Supergene gold-silver oxide mineralization occurs in the southern half of Taguas, at Cerro Taguas Norte, Cerro Taguas Sur, Cerro III and Cerro IV. This mineralization consists of sub-vertical mineralized structures, which also impact in the northeast, in a zone of lower grade mineralization. The high grade zones range in width from 1.5m to 8m and in length from 40m to over 500m. High grade zones consist of relatively continuous mineralization with gold grades ranging from 0.2 to over 4.0 g/t Au and 10 to over 50 g/t Au. Oxidation extends from the surface to approximately 200m below the surface. Gold-silver sulphides (pyrite-enargite) have been found in the north central zone of the property, at Cerro Campamento, and at Cerro Silla Sur. In addition, intersections grading over 50 g/t Au and 100 g/t Ag have been recognized in discrete mineralized vein structures ranging in length from 1.5 m to 5 m. Evidence of porphyry copper-gold mineralization has also been found on the Taguas property.





# TAGUAS

## Contact

Orvana Minerals Corp.  
70 York Street Suite 1710  
Toronto, Ontario M5J 1S9  
Tel: 416 369 1629

## Project Status PRELIMINARY ECONOMIC ASSESSMENT

COMPANY'S LAST ANNOUNCEMENT

NI 43-101 Technical Report on the Taguas Heap Leach Project, San Juan, Argentina – December 29, 2021

## Resources and Reserves

	Tonnage (Tonnes)	Gold		Silver	
		Grade (Gr/Tonnes)	Gold Contained (Oz)	Grade (Gr/Tonnes)	Silver Contained (Oz)
<b>TOTAL INFERED</b>	133,626,330	-	1,496,943	-	40,488,585
Cerro Campamento	1521330	4,1	196311	41.4	2024422
Cerro Silla Sur	750000	3.14	75632	57.9	1396163
Cerros Taguas	131355000	0.29	1225000	8.8	37068000

## Technical and Economic Information

### Estimated average annual production:

Gold: 47,000 Oz | Silver: 825,000 Oz

**Product to obtain:** Gold-silver doré bars

**CAPEX:** 141,1 million USD

**Estimated annual employment in operation:** 350 (e)

**Estimated employment in construction:** 700 (e)

**Estimated LOM:** 10 years

**Mining Method:** Open pit

### Sources Consulted

<https://www.orvana.com/English/operations/Taguas/Technical-Reports/default.aspx>



# Thank you

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