BacTech

LEADING THE WAY FOR SUSTAINABLE MINERAL SUPPLY CHAINS

CSE : BAC | OTCBB : BCCEF

LEGAL DISCLAIMER

This presentation contains certain forward-looking statements within the meaning of Canadian securities legislation (the "Forward-looking Statements") and within the meaning of Section 21E of the United States Securities Exchange Act of 1934, as amended. Although the Company believes that such statements are reasonable, it can give no assurance that such expectations will prove to be correct. Forward-looking statements are statements that are not historical facts; they are generally, but not always, identified by the words "expects," "plans," "anticipates," "believes," "intends," "estimates," "projects," "aims," "potential," "goal," "objective," "prospective," and similar expressions, or that events or conditions "will," "would," "may," "can," "could" or "should" occur, or are those statements, which, by their nature, refer to future events. The Company cautions that forward-looking statements are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made and they involve a number of risks and uncertainties. Consequently, there can be no assurances that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. This presentation is not, and under no circumstances is to be construed as, a prospectus, an offering memorandum, an advertisement or a public offering of securities. Under no circumstances should the information contained herein be considered an offer to sell or a solicitation of an offer to buy any securities.

Important factors that could cause future results to differ materially from those anticipated in these forward-looking statements include the inherent risks involved in the exploration and development of mineral properties, the uncertainties involved in interpreting drilling results and other ecological data, fluctuating metal prices, the possibility of project cost overruns or unanticipated costs and expenses, uncertainties relating to the availability and costs of financing needed in the future and other factors described in the section entitled "Risks" in BacTech Environmental Corporation's Management Discussion and Analysis for the Year Ended December 31, 2020. Circumstances or management's estimates or opinions could change. The reader is cautioned not to place undue reliance on forward-looking statements. The reader is urged to refer to the Company's reports, publicly available through the Canadian Securities Administrators' System for Electronic Document Analysis and Retrieval (SEDAR) at www.sedar.com for a more complete discussion of such risk factors and their potential effects. Except to the extent required by applicable securities laws and the policies of the Canadian Securities Exchange, the Company undertakes no obligation to update these forward-looking statements if management's beliefs, estimates or opinions, or other factors, should change. New factors emerge from time to time, and it is not possible for BacTech Environmental Corporation to predict all of them or assess the impact of each such factor or the extent to which any factor, or combination of factors, may cause results to differ materially from those contained in any Forward-looking Statement. Any Forward- looking Statements contained in this presentation are expressly qualified in their entirety by this cautionary statement.

While the information contained in this presentation is believed to be accurate, BacTech Environmental Corporation expressly disclaims any and all liability for any losses, claims or damages of whatsoever kind based upon the information contained in, or omissions from, this presentation or any oral communication transmitted in connection therewith. In addition, none of the statements contained in this presentation are intended to be, nor shall be deemed to be, representations or warranties of the Company. Where the information is from third-party sources, the information is from sources believed to be reliable, but the Company has not independently verified any of such information contained herein.

INVESTMENT HIGHLIGHTS

- Proposed Owner Operated **50 tpd Bio-Oxidation plant**. Located in **Ponce Enriquez, Ecuador.** Can expand **modularly**. Construction is expected to begin in **Q1 2022.**
- High-grade concentrate feed stock of around **45 grams** per ton.
- Bioleach test results showed Gold **recovery** rates of **95.4-96.1%**
- Proprietary technology facilitates the commercial recovery of metals from arsenopyrite concentrates. The process by-products, including **arsenic,** are **stable** and **benign.**
- Over **30 years** of research and development as well as **trade secret knowledge**.
- **Environmental** solutions for acid mine drainage (AMD) and heavy metal transport.

CSE:BAC | OTCBB:BCCEF

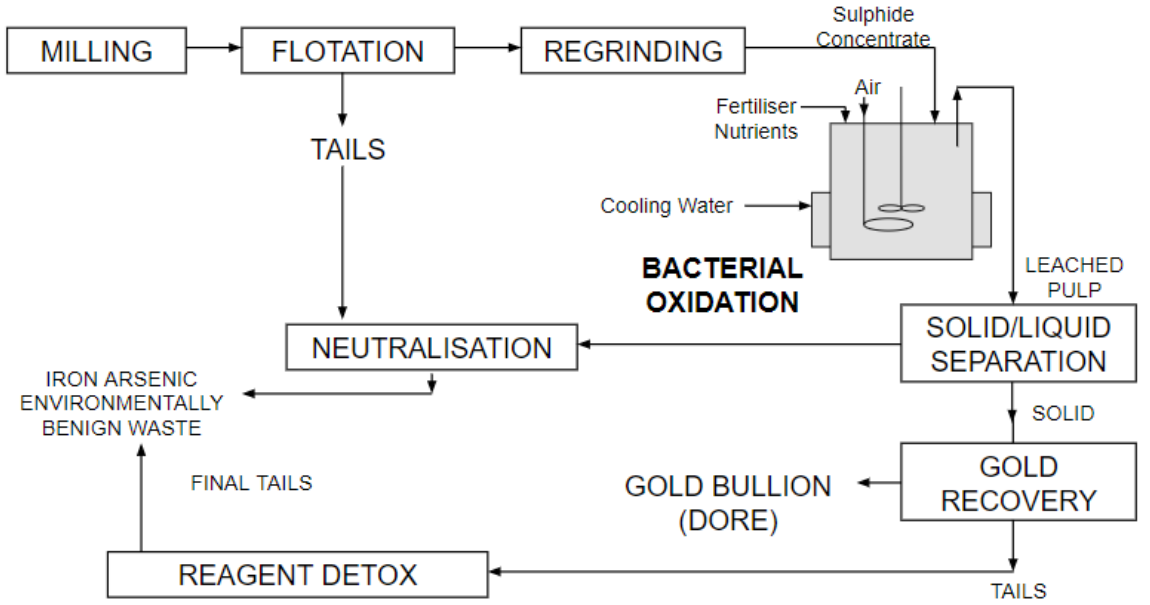
THE TECHNOLOGY

1) Conventional gravity/flotation to remove sulphides from ore/tailings to make high-grade gold/arsenic concentrate
   - Sulphides are the source of acid release but also contain the valuable metal to be recovered.

2) Bioleaching of **arsenopyrite** (arsenic/sulphide ore) concentrates produced from mining and/or tailings.

- ✓ The technology is already **commercially proven.**
- ✓ BacTech has “in-house” capacity for the design, construction and operation of the plant.
- ✓ It is a continuous process which is **safe, easy to operate** and flexible.
- ✓ Scalable in a **short period** of time and capable of processing a wide variety of low to high grade concentrates.

Our Bugs Eat Rocks!



CSE:BAC | OTCBB:BCCEF

SUSTAINABILTY AT OUR CORE

Bacteria
The bacteria are naturally occurring and harmless to the environment and human health.

Heavy Metal Recovery
Toxic heavy metals, like arsenic, are converted into stable, environmentally benign products that can be disposed of in a landfill.

No Mercury
Reduction in use of mercury by artisanal miners. We will not buy pre-treated concentrates.

Water
Efficient recycling of water from the process.

Emissions
No toxic gaseous emissions (e.g., S02,As203)

Permanent Solution
Bioleaching is a permanent solution, not a Band-Aid fix.

ECONOMIC BENEFITS (TAILINGS)

- Remediation of tailings at **no cost** to government
- Revenues through the **recovery** of contained metals — Au, Ag, Cu, Ni, Zn, Co
- **Local opportunities** for work, training, development and the **start** of a new **'green metal'** industry.
- **Lower cost** than the alternatives (e.g. pressure oxidation) and requires less capital.
- **Easy** to expand to accommodate tailings from many types of mines within a region.

CAPITALIZATION

Basic Shares Outstanding	**140,592,204**
Reserved (Options and Warrants)	**18,167,260**
FD-Total Shares Outstanding	**158,759,464**
Market Capitalization*	**$18M**

**As of July 22, 2021 @ 0.12/share*

CSE:BAC | OTCBB:BCCEF

Current Ownership

13.6%	Option 3
13%	Management/Directors and Consultants
4.6%	Ross Orr, CEO and President
9.0%	F. Lopes
59%	Public

CLEANTECH INDUSTRY

	BacTech	enviroleach	NEWLOX GOLD	PYROGENESIS
Operational Focus	Sustainable sources of precious metals and bioremediation.	Chemical leaching to recover precious metals from e-waste and gold ores	Sustainable sources of precious metals and bioremediation.	Design, development, manufacture and commercialization of advanced plasma processes.
Sub-Industry	Waste Management	Waste Management	Waste Management	Specialty Industrial Machinery
Public or Private	Public (BAC)	Public (ETI)	Public (LUX)	Public (PYR)
Market Capitalization	**$18.0M***	**$37.44M***	**$59.21M***	**$805M***
2020 Revenue	**$0****	**$1.20M****	**$0.49M****	**$4.81M****

Last updated July 22, 2021

***As of latest SEDAR fillings*

CSE:BAC | OTCBB:BCCEF

BOARD OF DIRECTORS

Timothy Lewin
Chairman

Ross Orr
Director, President and CEO

Walter Cimowski
Director, Audit Committee

Donald Whalen
Director

Jay Richardson
Director, Audit Committee

Jay Naster
Director, Audit Committee

MANAGEMENT TEAM

Ross Orr
President and CEO

Louis R. Nagy
Chief Financial Officer

Gary Williams
VP Environment

Dr. Paul C Miller
VP Technology

Bernardo Brito
Country Manager, Ecuador

CSE:BAC | OTCBB:BCCEF

PONCE ENRIQUEZ PROJECT

Local Benefits

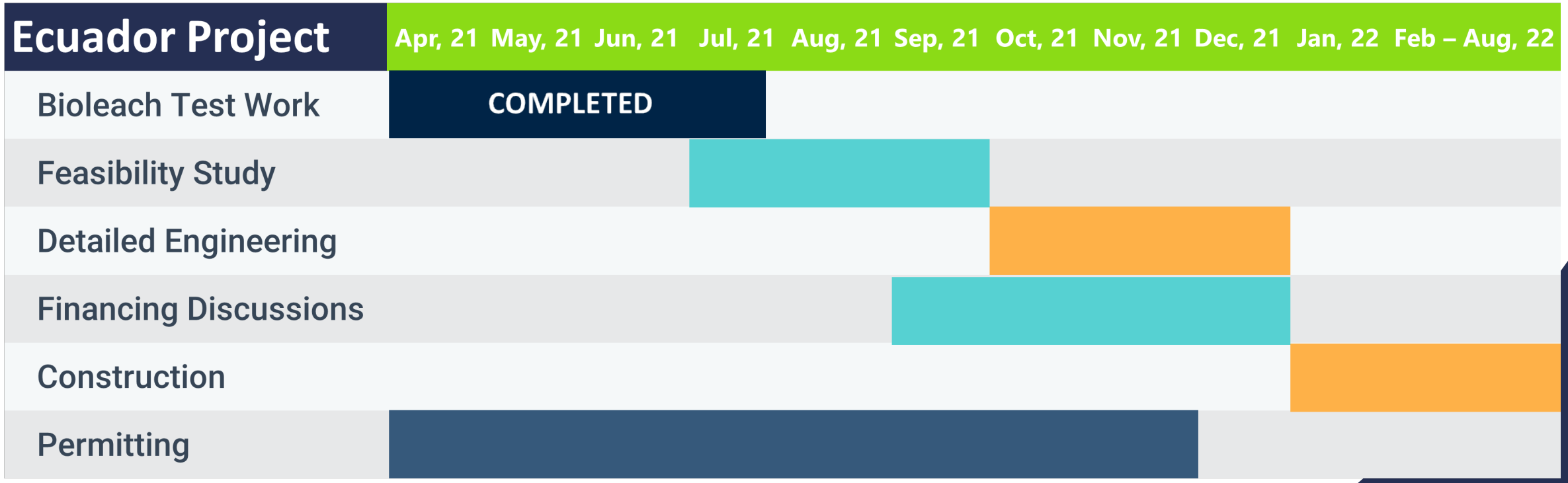
- ✓ Providing local processing and better prices to miners.
- ✓ **Support** from the **Ministry** of Artisanal and Small Miners.
- Market **uncertainty** for existing concentrate buyers/sellers with **Low** Prices and **Late** Payments for existing arsenic heavy concentrates.
- Potential to become a regional processing **hub**
- Current tailings are approaching **capacity**.

- First Phase of the plant will have **50 tpd** capacity.
- Opportunity to expand **without** disrupting operations (modular)
- **Cheap** power and existing local infrastructure. BacTech will buy or lease the land that the plant is built on.
- Only **30km** from nearest port.

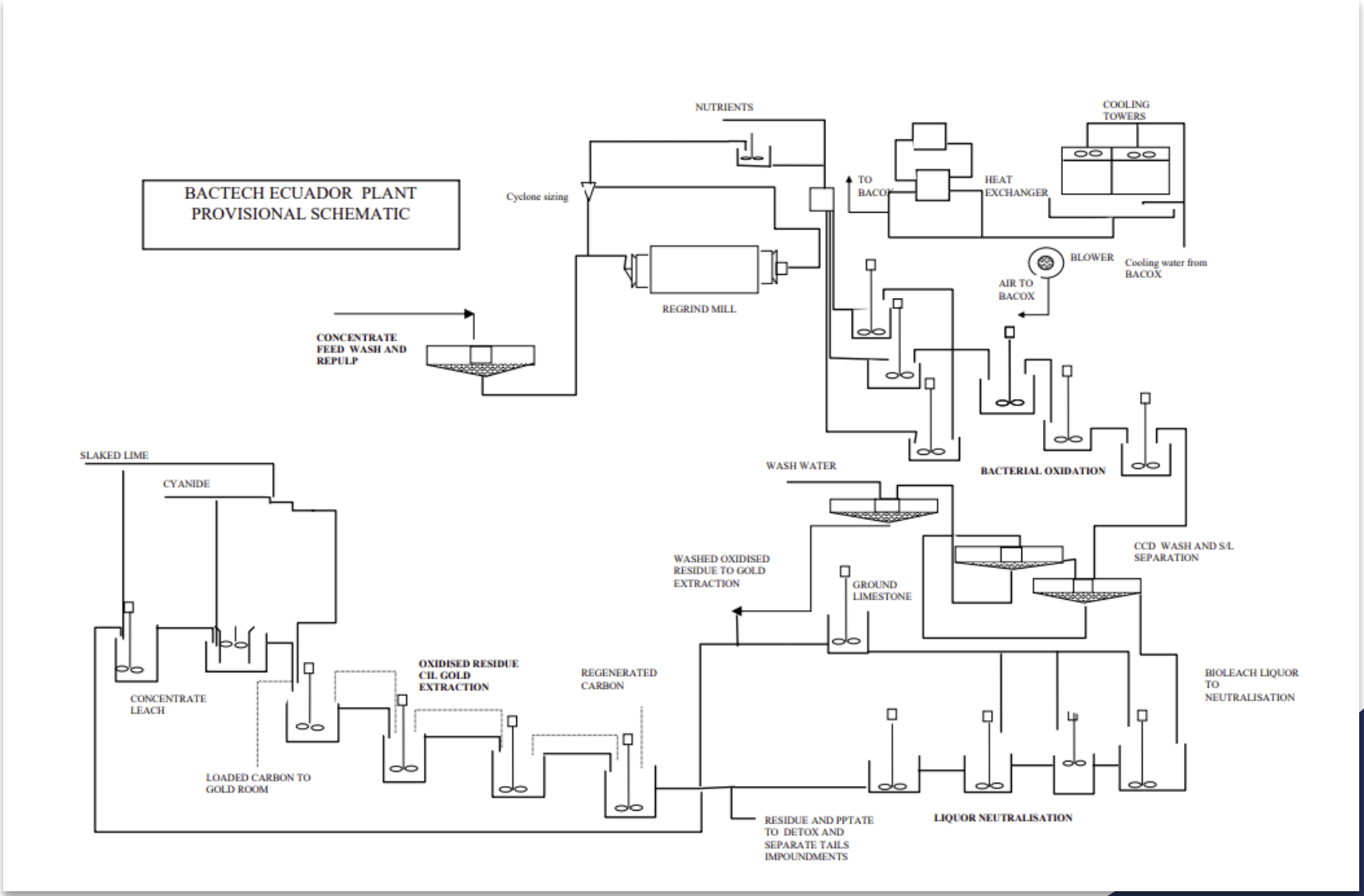
PONCE ENRIQUEZ BIOLEACH TEST WORK RESULTS

Feedstock Supplied to the Test	Feedstock Gold Head Grade (g/t)	Feedstock Arsenic Content (%)	Bio-oxidized Gold Grade for CIL processing (g/t)	Tail Gold Grade After CIL Gold Extraction (g/t)	Gold Recovery (%)
Conc. 1 + Conc.3	54.6	16	55.0	2.15	**96.1**
Conc. 5	21.7	12.9	28.1	1.27	**95.5**
Conc. 1+ Conc. 3 +Conc. 5	39.6	14.6	52.8	1.92	**95.4**

PONCE ENRIQUEZ PROJECT TIMELINE



PONCE ENRIQUEZ PROJECT SCHEMATIC



CSE:BAC | OTCBB:BCCEF

PONCE ENRIQUEZ PROJECT COST EST.

Bioleach Test Work	**USD $150,000**
Feasibility Study	**USD $125,000**
Engineering and Pre-Construction Work	**USD $250,000**
Permitting	**USD $100,000**
Construction	**USD $10,000,000**
Total	**USD $10.65M**

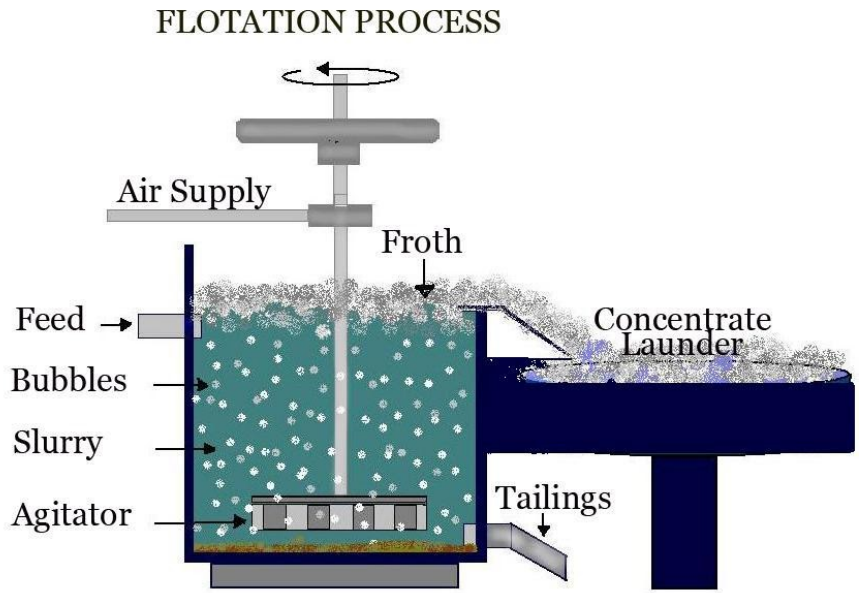
18 MONTHS

- A 50 tpd plant, processing 1.5 ounces of gold per ton of feed, would produce approximately 26,000 ounces per year.

Au produced per year (oz)	Au Spot Price June 24, 2021	Potential Yearly Revenue
26,000	USD$1,782.46	USD$47,788,000

COLUMBIA GOLD/PLATINUM TAILINGS

- Approached by **private**, US-based miner working in Colombia.
- Actlabs (Canada) assayed material provided by the miner from the tailings.
- **17 gpt** Gold and **34 gpt** Platinum in 100,000 tons (~$**200M** total metal)
  - Next step is **3rd party** verification as samples not arm's length
- Colombia currently inaccessible due to COVID-19 Pandemic
- Material has 1% arsenic which will exceed 10% after flotation
  - Potential feed for Ponce Enriquez
- **Low cost** to install flotation to produce high grade gold/platinum concentrate **for sale**
  - Approx. USD$2M capex



LONG TERM PROJECT POTENTIAL

- Colombia
- Central America
- Southern Peru-Puna
- Northern Peru- Piura
- Chile
- **Anywhere** arsenic is associated with gold/silver/copper

PROJECT LIFECYCLE

- **Engagement:** BacTech engages local parties to evaluate the potential for a project.
- **Feasibility:** BacTech performs assay testing, bioleaching test work and feasibility study to confirm the project is economically viable.
- **Build & Operation:** BacTech designs and builds the plant and operates it for its lifespan.
- **Decommissioning:** BacTech and its local partners arrange for the safe decommissioning of the plant and any minimal restoration efforts that may be required.

BacTech

BacTech Environmental Corporation
Suite 409, 37 King St. East
Toronto, Ontario M5C1E9

www.bactechgreen.com
Ross Orr, President & CEO
borr@bactechgreen.com
Office: 416-813-0303 ext. 222

THANK YOU!

CSE:BAC | OTCBB: BCCEF