## **Mindoro Resources Ltd**





#### **Disclaimer and qualified persons**



#### **Forward Looking Statements:**

This presentation may contain forward-looking statements including management's assessments of future plans and operations, expectations of future production, cash flow and earnings. These statements are based on current expectations that involve a number of risks and uncertainties, which could cause actual results to differ materially from those anticipated. These risks include, but are not limited to, the risks associated with the mining and exploration industry (e.g. operational risks in development, exploration and production; delays or changes in plans with respect to exploration or development projects or capital expenditures; the uncertainty of reserve estimates; the uncertainty of estimates and projections relating to production).

#### **Qualified / Competent Persons:**

Mindoro's exploration programs are prepared and/or designed and carried out under the supervision of Tony Climie, P.Geo., who is a Qualified Person as defined by National Instrument 43-101 and is a Competent Person as defined by the JORC Code, and who has reviewed and verified the pertinent disclosure of exploration related technical information contained in this news release. Mr Climie is an executive and a director of Mindoro and is a member of the Alberta Professional Engineers, Geologists and Geophysicists Association. Mr Climie has more than ten years of experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he has undertaken. Mr Climie has consented to the release of the pertinent exploration related technical information in the form and context in which it appears.

Dallas Cox, BE (Min), AusIMM Chartered Professional (Mining), an independent qualified person as defined by NI 43-101 and a Competent Person as defined by the JORC Code, has reviewed and verified the Mineral Resource and Reserve statements and statements of a development nature contained in this news release. Mr Dallas Cox has more than ten (27) years of experience in mineral resource and reserve calculation, open pit mine technical services, mine operations and management in Australia, China, Indonesia and the Philippines.

Boyd Willis, FAUSIMM, who is a Qualified Person as defined by National Instrument 43-101, and a Competent Person as defined by the JORC Code, has reviewed and verified the disclosure of a nickel processing nature contained in this news release. Mr. Willis has more than ten years of experience which is relevant to the activity which he has undertaken and he has consented to the release of the pertinent development related information in the form and context in which it appears.



## **Corporate Profile and Structure**

## **MINDORO CORPORATE PROFILE**



#### **CAPITALISATION** (\$CDN)

| Exchange & Symbol                      | TSX-V:IO, ASX: MDO, FFT: OLM |
|--|------------------------------|
| Shares outstanding                     | 297M                         |
| Fully diluted                          | 370M                         |
| Share price (Sept. 26 2013, TSXV)      | \$0.025                      |
| Market capitalisation (Sept. 26, 2013) | \$7.4M                       |
| Current treasury (June 2013)           | \$239,000                    |

#### **SHAREHOLDERS**

| TVI Pacific Inc            | 14.4% |  |
|----------------------------|-------|--|
| Acorn Capital              | 13.4% |  |
| IFC (World Bank)           | 8.4%  |  |
| Asian Lion Fund            | 6.3%  |  |
| Lion Selection             | 5.7%  |  |
| Directors and Officers     | 1.7%  |  |
| Top 20 registered holdings | 56.2% |  |

## **BOARD OF DIRECTORS**



#### Non-Executive Directors:

- Rob Garden, QC, Chairman: 38 yrs in natural resources law
- **Cliff James:** CEO & President of JV partner, TVI Pacific
- Larry Nagy: Geologist with 36 yrs in mineral resource industry

#### Executive Directors

- Tony Climie
- Penny Gould

## **MINDORO MANAGEMENT**



- Tony Climie, CEO: 40 years of international mineral exploration experience; founding director of Mindoro in 1996; served as CEO from 1996 – 2010; appointed again in 2012.
- **Clayton Northey, CFO**: 8 yrs in finance and admin; 6 yrs with Mindoro as accountant and financial controller before assuming CFO position.
- Penny Gould, Exec. VP, Corp. Sec.: 30 yrs in business admin, financing and marketing; variety of positions with Mindoro from 1996 2011, including Exec. VP, CFO and President; rejoined Mindoro in 2013.
- Edsel Abrasaldo, COO: VP of Philippine sub, MRL Nickel; major role in operations and sustainability programs, 36 yrs in Phils. mining industry and 16 yrs with Mindoro.



## **CEO REPORT**





## Agata Nickel Laterite Project 2-Phase Development Strategy 1. Direct Shipping Ore (DSO) 2. Processing (Acid Leach)

Garnierite (nickel) mineralization

## PHASE 1 - AGATA DSO - KEY POINTS



- TVI to earn 60% by carrying project to production
- MIO finalised acquisition of Minimax 25%
- At production, interests:
  - TVI 60%
  - MIO 40%
- Final feasibility study (43-101) completed
- Highly robust economics for high-iron DSO



### **AGATA RESOURCE**





#### **RESOURCE – SOLID DATA BASE**



- ✤ NUMBER OF DRILL HOLES 593 (10,851.8 METERS)
- ✤ NOMINAL DRILL SPACING : 50 X 50 METERS
- **AVERAGE DEPTH 18.3 METERS**



#### TWO-PHASE DEVELOPMENT PLAN OF THE LATERITE PROFILE





## **DSO STATUS**



- Final Feasibility Study and related development planning complete
- At development stage, subject to permitting
- Key permits obtained:
  - extension of ECC for Agata DSO granted
  - ECC for pier facilities granted
  - ECC for Payong-payong Village Relocation
  - most local permits granted

## **DSO STATUS**



- Main permits awaited:
  - Declaration of Mining Project Feasibility approval (DENR)
  - Clearance to Develop Port

## **Estimated Cash Flow for Agata DSO**

|                                | 2012  | 2014   | 2015   | 2010   | 2017+       |         |
|--------------------------------|-------|--------|--------|--------|-------------|---------|
| (All amounts in million 055)   | 2013  | 2014   | 2015   | 2016   | (per annum) | LOIVI   |
| Cash Receipts                  | -     | 44.0   | 55.0   | 39.6   | 11.0-8.8    | 213.4   |
| Capital Expenditure ("Cap Ex") | (6.9) | (4.7)  | (0.2)  | (0.2)  | (0.2)       | (12.5)  |
| Operating Expenditure          | -     | (23.0) | (26.5) | (18.8) | (7.6)-(5.9) | (127.4) |
| Tax Paid                       | -     | (5.7)  | (7.7)  | (5.6)  | (1.6)-(0.6) | (22.8)  |
| Estimated Total Free           |       |        |        |        |             |         |
| Cash Flow for 100% of Project  | (6.9) | 10.6   | 20.6   | 15.0   | 1.7 – 1.1   | 50.7    |

- TVI 60%: sole fund the US\$12.5M Cap Ex to earn interest (TVI operator)
- Mindoro 40%: to calculate Mindoro value, Cap Ex deduction would be <u>excluded</u>.

The above table, showing 100% of free cash flows from DSO operation, is taken from page 171 of the NI 43-101 compliant Feasibility Study; Technical Report available at www.sedar.com and www.mindoro.com

## **Additional Economic Considerations**



Free Cash Flow in FS and previous table does not include following expenditures by Mindoro:

- Purchase 25% from Philippine partner:
  - US\$200,000
  - US\$4M over 4 years
- Payments to Panoro Minerals Ltd.:
  - CDN\$500,000 after 1MT of DSO product shipped
  - further CDN\$500,000 on the 1<sup>st</sup> anniversary.

## AGATA PHASE 2 - PROCESSING KEY POINTS



• TVI may earn 60% by completing Definitive Feasibility Study (DFS) - in progress

- Processing concept is <u>low-capex</u>:
  - Atmospheric Leaching (ATL) ("tank leaching") for primary feed
  - low pressure autoclave for secondary feed

## **AGATA PROCESSING – KEY POINTS**



- Contrast very high capex High Pressure Acid Leach (HPAL) process

   typically \$1 billion plus
- ATL being carried out commercially by Chinese
  - at least 2 viable ATL operations
  - with < \$100M capex</p>
  - targeting < \$150 million capex for 7,000 tpa Ni</p>

#### AGATA: TWO-PHASE DEVELOPMENT OF THE LATERITE PROFILE





#### **KEY DEVELOPMENT ELEMENTS FOR A NICKEL PROCESSING PLANT ALL NEARBY**







#### **PROGRESS – PROCESSING FEASIBILITY STUDY**



| Disciplines            | Current Status   |
|------------------------|--|
| Mining &<br>Geology    | <ul> <li>Final Mining Schedule Complete.</li> <li>Costing for ore and limestone mining underway</li> </ul>   |
| Metallurgy<br>Testwork | <ul> <li>Bench-scale leach testwork completed</li> <li>Pilot plant (rigorous and continuous leaching) testwork completed in Beijing – excellent results</li> <li>Duplicating and validating pilot testing in-house <ul> <li>to produce sample for off-taker evaluation</li> <li>will be in operation next week.</li> </ul> </li> </ul> |

#### **PROGRESS – PROCESSING FEASIBILITY STUDY**



| Disciplines   | Current Status   |
|---------------|--|
| Process Plant | <ul> <li>METSIM model and Process Flowsheet defined</li> </ul>   |
|               | <ul> <li>Process Design Criteria essentiality complete -a major<br/>part of feasibility study</li> </ul> |
| Engineering   | <ul> <li>Bids for engineering component of feasibility study<br/>being evaluated</li> </ul>              |
|               | <ul> <li>Remaining process plant infrastructure requirements<br/>designed to concept stage</li> </ul>    |
|               |  |

#### **PROGRESS- PROCESSING FEASIBILITY STUDY**



| Disciplines           | Current Status  |
|-----------------------|---|
|                       |   |
| Project<br>Financials | <ul> <li>Preliminary financials have been estimated</li> <li>Final Production Model, CAPEX, OPEX &amp; Financial</li> </ul> |
|                       | Model is underway   |

#### **LEACH FEED DISTRIBUTION & CLASSIFICATION**





#### **FROM LEACH TO PRODUCT**





#### **PILOT TESTING IN PROGRESS**





#### **SITE ENGINEERING & DESIGN**





# PROCESS PLANT 3D-MODEL



#### **KEY DEVELOPMENT ELEMENTS FOR A NICKEL PROCESSING PLANT ALL NEARBY**





## **PROCESSING PROJECT ECONOMICS**



- Potential economics promising:
  - objective of < US\$ 150M capex</p>
  - target for opex of < \$3 per lb nickel</p>
- Model using PDA pyrite for sulphuric acid particularly encouraging
- High NPV and cash flows anticipated

## **PAN DE AZUCAR JOINT VENTURE**



- TVI can earn 60% in each of:
  - DSO, by carrying MIO to production
  - Processing operation by spending initial \$6M

 Concept is to use PDA pyrite to produce sulphuric acid for Agata processing plant

#### **PAN DE AZUCAR PROJECT (75%)**



- Massive sulphide sulphur-copper-gold deposit
- Defined Exploration Target:
  - 8 12.7 million tonnes,
  - 35 40% sulphur,
  - 0.4 0.6% copper
  - 0.5 0.7 g/t gold
- Metallurgy for acid (Ni) and copper-gold leach
- Plunging shallowly north, open north and east
- More drilling and metallurgy required for resource

Pabilona

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Valde

Caution, the Valderama massive sulphide is currently an Exploration Target only. Detailed drilling will be required to convert the Exploration Target into NI 43-101-compliant resources. There is no guarantee that these resources, if delineated, will be economic or sufficient to support a commercial mining operation. Until a feasibility study has been completed there is no certainty that the company's projections will be economically viable.

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#### MAP KEY

- Quaternary alluvium
- Andesitic flow dome
- Andesite and dacite tuffs & volcanics
- Dacitic volcanics & volcaniclastics
- Interpreted fault
- Collapsed features / ring faults
  - Creek
- Dill hole (2001-2002)
- Drill hole (2011)
- MPSA boundary

#### Valderama zone

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- Boundary defined from drilling
   Boundary defined from geophysical and geochemical data
   Vuggy, leached, quartz alunite altered boulders
   Dark grey – dark red ferruginous boulders
  - Topography



## **TVI JOINT VENTURES (1)**

Secure and maintain our 40% interest of:

## **DIRECT SHIPPING OPERATIONS (DSO) > CASH FLOW**

- Agata high-iron limonite
- potentially, DSO of Agata limestone
- and Pan de Azucar pyrite



## **TVI JOINT VENTURES** (2) – 40% interest

#### **PROCESSING OPERATIONS**

- planned Agata Atmospheric Leach Operation
- potentially, processing of Agata Limestone
- and Pan de Azucar sulphuric acid (> Agata nickel)



## **TVI JOINT VENTURES (3)**

40% participation in many promising porphyry copper-gold targets, including:

- Agata (American Tunnels)
- Surigao Bolobolo
- Pan de Azucar



## Acquire a cornerstone project (100%) for rebuild of Mindoro.



Batangas gold assets

100% Red Mountain
 20.8% Mindoro owned

• Red Mountain operating.

## Drill rig operating at Agata. Simple yet effective

41

## Sampling test pit on Agata Project

## Children of Agata Grade School - Adopted by Mindoro

in ndur.

DaBbC



Mindoro team being awarded Presidential Award for top junior exploration company in the Philippines for its social and environmental programs





# **MANY THANKS TO OUR LOYAL AND PATIENT(!) SHAREHOLDERS**