

21 April 2016

MARCH 2016 QUARTERLY ACTIVITIES REPORT

HIGHLIGHTS

BAOBAB PHOSPHATE PROJECT

- Mining activities commenced during the March quarter – ASX announcement 22 March
- Groupe Mimran BMCC joint venture executed - ASX announcement 31 January
- Groupe Mimran BMCC joint venture completed - ASX announcement 2 March
- Project remains on schedule for second half 2016 production

JDCPHOSPHATE, INC.

- Successful operating run of the demonstration plant in January
- JDCP's capital raising to fund commercialisation continues, led by Macquarie Capital (USA) Inc.

CORPORATE

- Groupe Mimran placement transaction executed - ASX announcement 31 January
- Groupe Mimran investment transaction completed - ASX announcement 2 March
- Avenira de-listed from Toronto Stock Exchange
- Cash balance at 31 March 2016 of A\$32m

Cliff Lawrenson, Managing Director, commented *"The March quarter has been a very busy and productive period for Avenira. Substantial progress was made on site as mining activities commenced at the Baobab Phosphate Project. All works are currently on time and on budget and the Company remains on schedule to deliver first production during the second half of 2016. Getting to production in the second half of 2016 is our first priority, followed by moving from our current Small Mine Permit to a full Mine Permit to enable increased production."*

It has also been pleasing to settle the joint venture and share placement transaction with Groupe Mimran. We are pleased to have Groupe Mimran as a major shareholder and we welcome David Mimran to the Avenira Board of Directors."

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FOR FURTHER INFORMATION:

Mr Cliff Lawrenson

Managing Director and CEO, Avenira Limited

Mr Rod Wheatley

CFO and Company Secretary, Avenira Limited



1. BAOBAB PHOSPHATE PROJECT

1.1 PROJECT DEVELOPMENT FOR COMMENCEMENT OF MINING

Strong progress was made during the March quarter on the development of the first open pit within the Small Mine Permit (“SMP”) area at the Baobab Phosphate Project (“Project”).

Key activities completed during the March quarter are listed below.

Mining Contract

- Mining of the Stage 1 open pit overburden commenced at Gadde Bissik during March.
- Initial mining, undertaken on a 24-hour basis, utilised a 385C excavator and 3 of the 5 haul truck units on site. The mining rate continues to improve as mining conditions are better understood and resources are added.
- Two new 390 excavator units and the remaining trucking units were operational by the end of March.



Figure 1: Stage 1 Open pit access ramp establishment in progress



Figure 2: Stage 1 Mining in progress

Site Infrastructure

- Work on the Mining Contractor's maintenance facility advanced during February and March.
- The main site access road was completed in February.
- Site fencing work was 20% complete at the end of March and continues to progress.
- The first four accommodation units were delivered to site at the end of March. These complement the first shower block, three office units and a dining room unit which were established on site earlier in the March quarter.
- Permanent site building water supply, power supply and sewage works were in progress at the end of March.



Figure 3: Project access road construction



Figure 4: Project mine site facilities and offices being installed



Mine Design and Schedule

Further optimisation of the mine design and scheduling is currently in progress, based on the most recent Indicated Resource. This demonstrates little change to the original pit design, but shows extensions of the original open pit to the northeast and east. Ongoing optimisation will continue as we advance to production.

These extensions are currently being reviewed and evaluated.

Water Supply

- Initial water airlift flow rates from the first deep process water bore are encouraging and better than predicted from the Hydrogeological Study.
- Cleaning and extended airlift testing to determine the sustainable yield of this bore is underway.
- The large drill rig was moved to commence the second process water bore at the start of April.
- A second drill rig is being deployed for community water bores. Drilling is complete on the first of these bores and airlift testing commenced in the first week of April.



Figure 5: BAUER Resources Senegal water drilling rig operating at the Project



Processing

- The long lead ultrafine screening equipment has been fabricated in the U.S.A. and is ready for shipping to Dakar.
- The process plant steelwork and platework fabrication is near completion with the trial erection of the wet screening plant underway in Johannesburg.
- The site establishment and local resource procurement advance team from the process plant engineering contractor arrived on site at the end of the March quarter.



Figure 6: Offsite Trial erection of Process Plant



Figure 7: Fabrication of Process Plant Feed Chute



Figure 8: Preparation of the Process Plant area underway incorporating compacted laterite

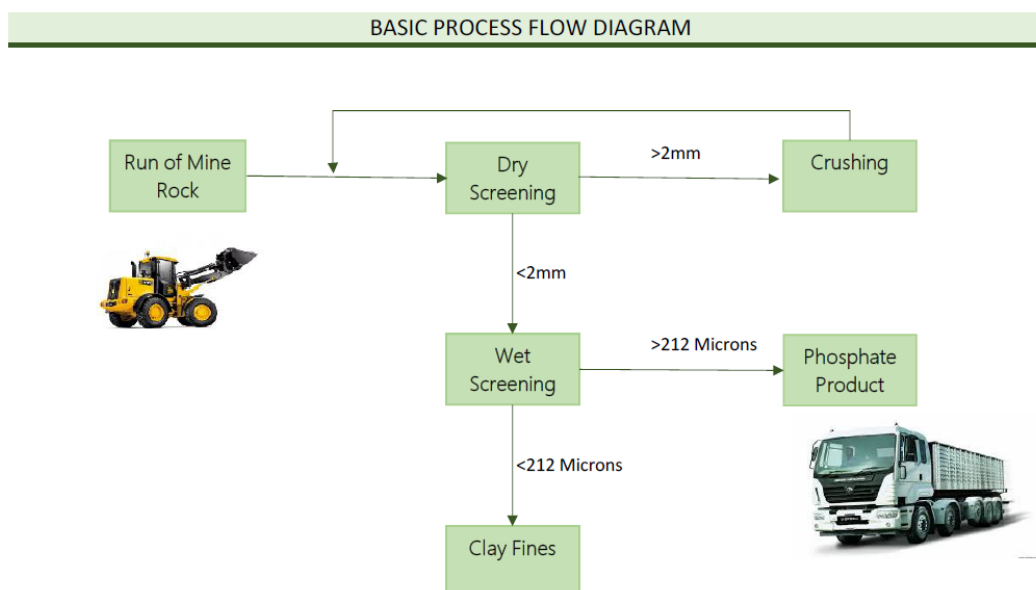


Figure 9: Gadde Bissik Basic Process Flow Diagram

Project Schedule

The project schedule shows the mining of overburden to access ore remains the critical path for the project. Remaining on schedule is the primary management focus in moving to production.

Marketing

The Company continues to advance discussions with existing offtake MOU parties as well as with other potential buyers. Marketing samples are being provided for laboratory analysis, and feedback to date is consistent with Company analysis. Site visits with potential offtake parties are being scheduled along with the expected steps that lead to definitive offtake agreements. These expected steps may include trial shipments for certain consumers.

Company representatives attended a key industry conference in Paris during the March quarter to continue networking within the phosphate industry and to further develop existing MOU's.

Transport

The company continues to improve its road transport options as the project develops.

A preferred contractor has been selected with contract negotiations progressing to plan.

Port of Dakar

The Company is evaluating the use of undercover storage of export product at the port and contracts are currently under review.



Local Community Relocation Consultation

Site surveys and subsequent area calculations for agricultural land now covered by mining operations at Gadde Bissik were completed and reviewed by the Compensation Commission during December. During the March quarter this process was completed and the agreed level of compensation paid to all affected parties.

Recruitment

Interviews continued during the March quarter, with two Junior Surveyors, a third Geologist and a Geological Technician appointed to the Gadde Bissik Team. All positions were filled by Senegalese nationals.

Contract Security Personnel also commenced work during the March quarter.

During April and May the recruitment program will focus on the process plant operating and maintenance team.

1.2 GEOLOGY AND EXPLORATION

BAOBAB PROJECT

Exploration activity during the March quarter included the completion of a scout air-core drill program to the east of the Gadde Bissik project area. Nine holes were drilled for a total of 386 metres. Results for this drilling program are being assessed. Further proposed diamond drilling, aimed at increasing the Indicated Resource both within and adjacent to the SMP commenced on 26 March and two holes were completed by the end of the March quarter.

Resource definition diamond drilling has commenced within and adjacent to the SMP and further exploration air core drilling to the east and north of the current resource area is underway.

Purpose of drilling	Air core drilling		Diamond drilling	
	Holes	Metres	Holes	Metres
Regional exploration	9	386	-	-
Resource definition				
- Within SMP	-	-	2	91
- Outside SMP	-	-	-	-
TOTAL	9	386	2	91

Table 1: Drilling statistics – March 2016 Quarter

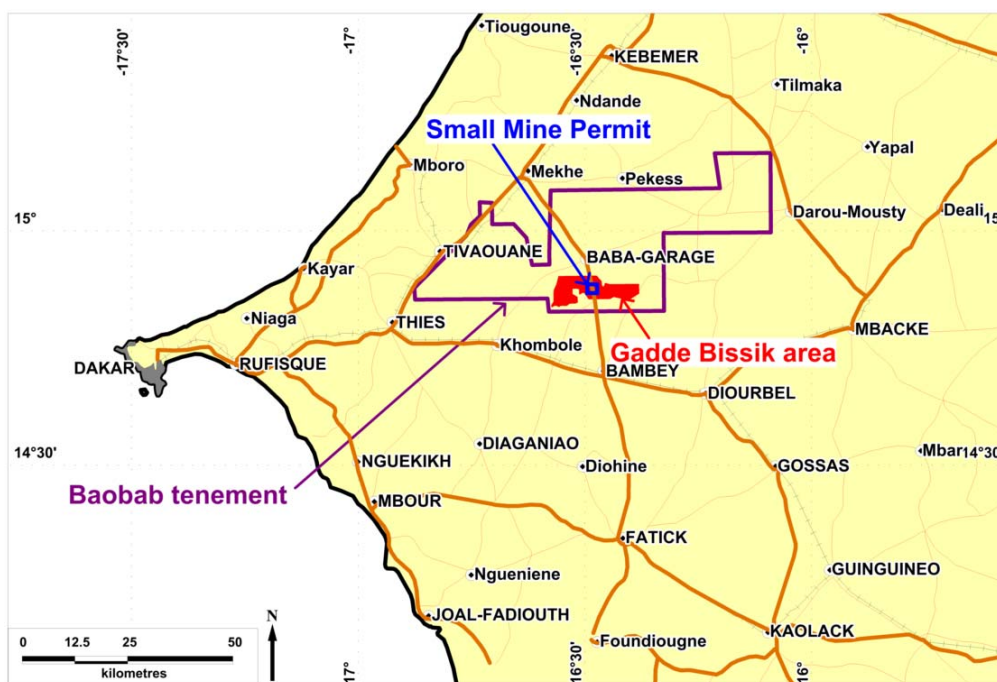


Figure 10: Baobab and Gadde Bissik location

Resource

There has been no change to the resource estimate during the March quarter. The Gadde Bissik resource outlines are shown in Figure 11.

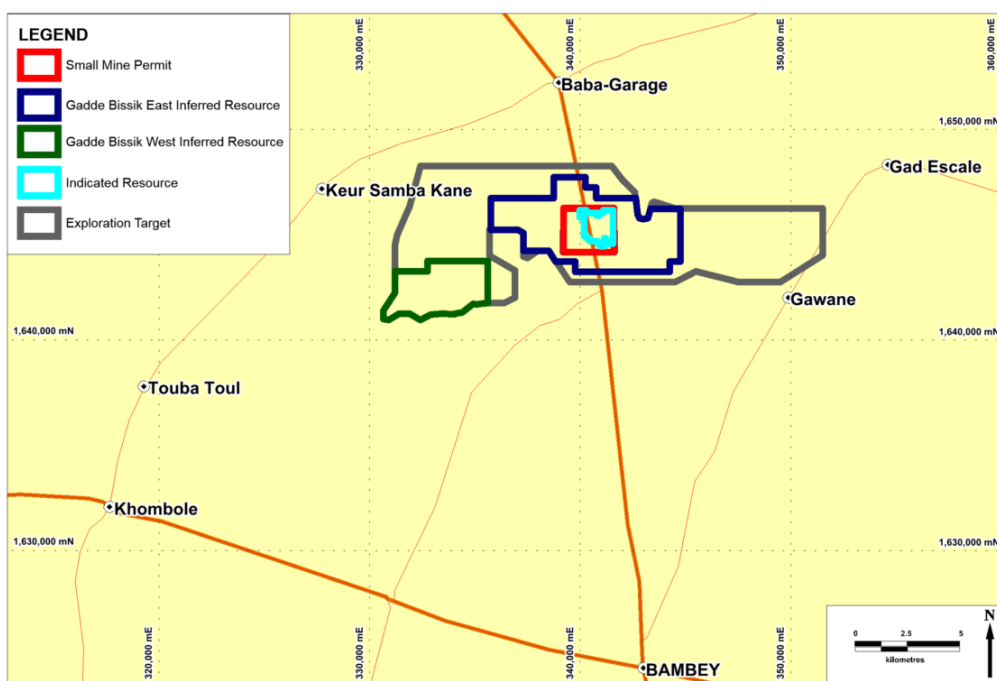


Figure 11: Gadde Bissik resource outlines



GOSSAS PROJECT

As part of the Groupe Mimran investment in Avenira and Baobab Mining and Chemicals Corporation ("BMCC"), the 2016km² Gossas exploration tenement will be transferred to BMCC and exploration on the tenement will be undertaken by the BMCC team. The tenement lies to the south-east of Baobab (Figure 12) and the eastern part of the tenement covers an area of high prospectivity for phosphate with numerous historical records of phosphate occurrences, mainly in water wells. Initial exploration of the tenement will comprise a study of all relevant documentation held by the BRGM in France to produce a prospectivity plan of the tenement. Based on the outcome of the desktop study, a scout air core drilling program will be implemented.

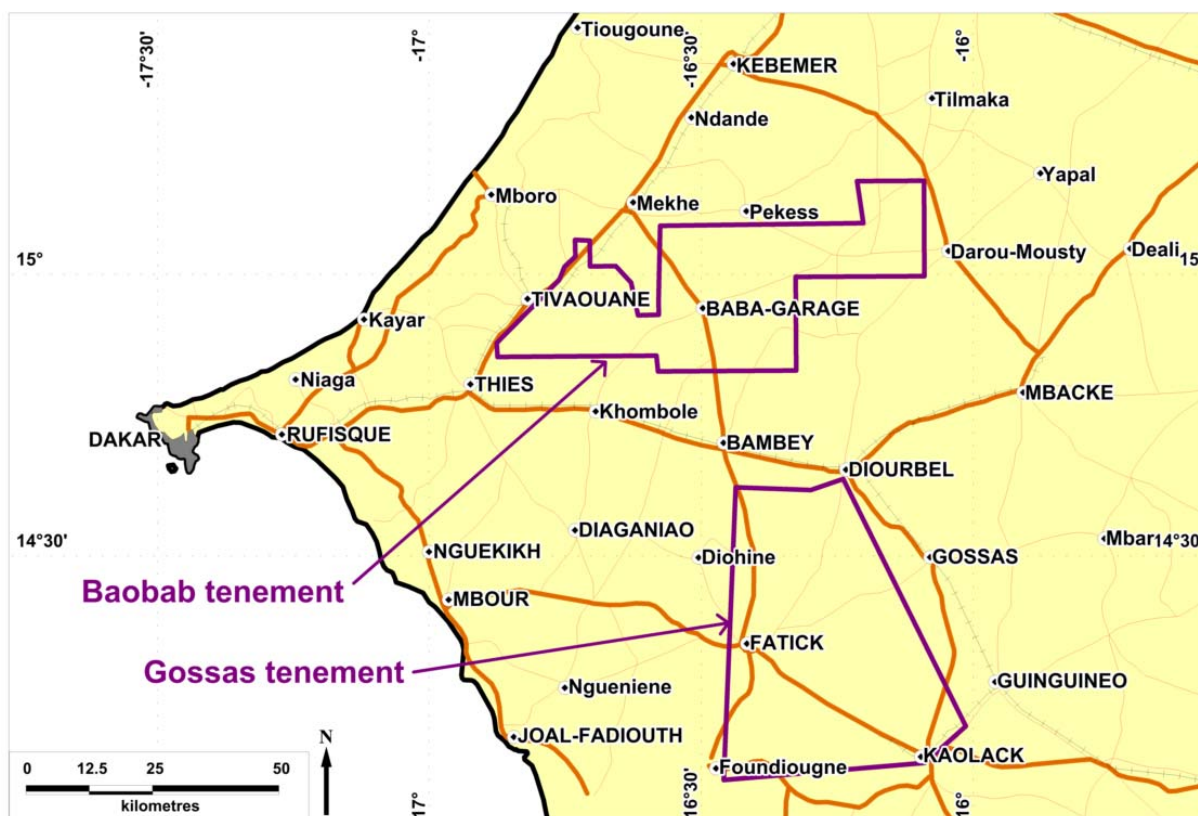


Figure 12: Gossas tenement location

2. JDCPHOSPHATE, INC.

Avenira owns approximately 8.0% of JDCP and has an exclusive licence to utilise the Improved Hard Process (IHP) technology in Australia for an extensive period of time. In addition, via Avenira's recently acquired ownership of Baobab Fertilizer Africa, Avenira now has an exclusive licence to utilise the Improved Hard Process (IHP) technology in Senegal for an extensive period of time.

JDCP has constructed a demonstration plant in Fort Meade, Florida. This plant is a 1:18 scale of an anticipated full-scale plant. Tip Fowler, CEO of JDCP commented *"Since the December 2015 Quarterly Report, JDCP successfully concluded an operating run of the demonstration plant in January 2016, which yielded phosphoric acid that exhibited commercial-grade qualities. The results of the operating run have been well received from potential investors from whom JDCP is pursuing financing. The aforementioned operating*



run employed newly devised methods of agglomeration and further validated JDCP's methods for ameliorating problematic dust in the kiln. JDCP filed for patent protection for these novel techniques in September 2015 and the U.S. patent office published this application in March, a necessary step toward patent issuance.

JDCP continues to enjoy the support of its investors and is focused on deploying its resources to further validate the Improved Hard Process technology and broaden JDCP's intellectual property footprint. JDCP, with the support of Macquarie Capital, continues to pursue a capital financing that will continue to fund technology development at the demonstration plant and the ultimate commercialization of the technology at full commercial scale. Shareholders are encouraged to view the JDCP website <http://jdcphosphate.com/>.

In other matters, JDCP presented a paper on the status of its technology at the CRU Phosphates 2016 conference in Paris.

3. WONARAH PHOSPHATE PROJECT, NORTHERN TERRITORY

The Company will continue to review the holding costs of the Wonarah project until the commercial validation of the IHP technology.

4. CORPORATE AND INVESTMENTS

4.1 GROUPE MIMRAN INVESTMENT

On the 2 March 2016 the Company announced that the joint venture and placement transactions with Groupe Mimran companies had achieved financial close.

Avenira received approximately A\$28 million in proceeds which ensures funding for:

- Development of the Baobab Phosphate Project small mine to production.
- Exploration and project development towards a full mine permit.
- Flexibility for Avenira to consider new investment opportunities.

In accordance with the terms of the MOU, settlement of the transaction has allowed the following to occur:

- the issue of 20% of the capital in Baobab Mining and Chemicals Corporation ("BMCC") to Mimran Natural Resources for consideration of US\$11.25 million (A\$16m) and the transfer of a phosphate exploration permit in the Republic of Senegal to BMCC.
- the issue of 104,750,000 fully paid ordinary Avenira shares (19.9% of Avenira Limited) to Tablo Corporation at a price of A\$0.117 per share.

4.2 CAPITAL RAISING

In accordance with the Groupe Mimran MOU, on 2 March 2016 the Company issued 104,750,000 fully paid ordinary Avenira shares (19.9% of Avenira Limited) to Tablo Corporation at a price of A\$0.117 per share, raising A\$12.3m.

4.3 BOARD CHANGES

Following completion of the Groupe Mimran transaction, Mr David Mimran was appointed to the boards of both BMCC and Avenira Limited, effective 2 March 2016.



On 14 March 2016 Mr Richard O'Shannassy resigned as a director of the Company.

4.4 TORONTO STOCK EXCHANGE LISTING

During the March quarter, the Company voluntarily delisted from the Toronto Stock Exchange (TSX). Subsequent to the delisting, the Company has applied to the Ontario Securities Commission for a decision that the Company is no longer a reporting issuer in the province of Ontario.

4.5 CASH POSITION

At the end of the March 2016 Quarter, Avenira had cash of \$32 million.

Breakdown of cash spend for the March quarter:

Tenement cost and maintenance	(\$0.47m)
Wonarah Project and JDCP	-
Baobab Phosphate Project	(\$5.68m)
Net Admin and Corporate	(\$0.96m)
Net proceeds from Mimran transaction	\$27.69m

Cliff Lawrenson
Managing Director



Schedule of Avenira Limited Tenements as at 31 March 2016

Location	Tenement Name	Tenement	Nature of Company's Interest
Northern Territory	Wakaya	EL24607	100%
Northern Territory	Arruwurra	EL29840	100%
Northern Territory	Wonarah	EL29841	100%
Northern Territory	Dalmore	EL29849	100%
Northern Territory	West Wonarah	EL23767	100%
Northern Territory	Wonarah Mineral Lease	ML27244	100%
Senegal	Baobab	14626/MIM/DMG	80%
Senegal	Gadde Bissik	09810/MIM/DMG	80%

Compliance Statement

Information in this report relating to Exploration Results or estimates of Mineral Resources or Ore Reserves has been extracted from the reports listed below. The reports are available to be viewed on the company website at: www.avenira.com

Baobab Project:

27 April 2015: Minemakers to acquire a potential near-term production rock phosphate project in the Republic of Senegal

11 May 2015: Minemakers delivers maiden Inferred Resource for Baobab Rock Phosphate Project in Republic of Senegal

22 September 2015: Baobab project update

7 December 2015: Maiden Indicated Mineral Resource at Baobab Phosphate Project

7 January 2016: Technical Report Mineral Resource Estimation for the Gadde Bissik Phosphate Deposit, Republic of Senegal

Wonarah Project:

15 March 2013: Technical Report Mineral Resource Estimation for the Wonarah Phosphate Project, Northern Territory, Australia

30 April 2014: Quarterly activities report

The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

Cautionary Statement Regarding Forward-Looking Information

All statements, trend analysis and other information contained in this document relative to markets for Avenira trends in resources, recoveries, production and anticipated expense levels, as well as other statements about anticipated future events or results constitute forward-looking statements. Forward-looking statements are often, but not always, identified by the use of words such as "seek", "anticipate", "believe", "plan", "estimate", "expect" and "intend" and statements that an event or result "may", "will", "should", "could" or "might" occur or be achieved and other similar expressions. Forward-looking statements are subject to business and economic risks and uncertainties and other factors that could cause actual results of operations to differ materially from those contained in the forward-looking statements. Forward-looking statements are based on estimates and opinions of management at the date the statements are made. Avenira does not undertake any obligation to update forward-looking statements even if circumstances or management's estimates or opinions should change. Investors should not place undue reliance on forward-looking statements.