

Security Class

Holder Account Number

Fold

Form of Proxy - Annual General and Special Meeting to be held on December 15, 2014

This Form of Proxy is solicited by and on behalf of Management.

Notes to proxy

1. Every holder has the right to appoint some other person or company of their choice, who need not be a holder, to attend and act on their behalf at the meeting or any adjournment or postponement thereof. If you wish to appoint a person or company other than the persons whose names are printed herein, please insert the name of your chosen proxyholder in the space provided (see reverse).
2. If the securities are registered in the name of more than one owner (for example, joint ownership, trustees, executors, etc.), then all those registered should sign this proxy. If you are voting on behalf of a corporation or another individual you must sign this proxy with signing capacity stated, and you may be required to provide documentation evidencing your power to sign this proxy.
3. This proxy should be signed in the exact manner as the name(s) appear(s) on the proxy.
4. If this proxy is not dated, it will be deemed to bear the date on which it is mailed by Management to the holder.
5. The securities represented by this proxy will be voted as directed by the holder, however, if such a direction is not made in respect of any matter, this proxy will be voted as recommended by Management.
6. The securities represented by this proxy will be voted in favour or withheld from voting or voted against each of the matters described herein, as applicable, in accordance with the instructions of the holder, on any ballot that may be called for and, if the holder has specified a choice with respect to any matter to be acted on, the securities will be voted accordingly.
7. This proxy confers discretionary authority in respect of amendments or variations to matters identified in the Notice of Meeting or other matters that may properly come before the meeting or any adjournment or postponement thereof.
8. This proxy should be read in conjunction with the accompanying documentation provided by Management.

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Proxies submitted must be received by 2:00 PM, Pacific Standard Time, on December 11, 2014.

VOTE USING THE TELEPHONE OR INTERNET 24 HOURS A DAY 7 DAYS A WEEK!



To Vote Using the Telephone

- Call the number listed BELOW from a touch tone telephone.

1-866-732-VOTE (8683) Toll Free



To Vote Using the Internet

- Go to the following web site:
www.investorvote.com
- **Smartphone?**
Scan the QR code to vote now.



If you vote by telephone or the Internet, DO NOT mail back this proxy.

Voting by mail may be the only method for securities held in the name of a corporation or securities being voted on behalf of another individual.

Voting by mail or by Internet are the only methods by which a holder may appoint a person as proxyholder other than the Management nominees named on the reverse of this proxy. Instead of mailing this proxy, you may choose one of the two voting methods outlined above to vote this proxy.

To vote by telephone or the Internet, you will need to provide your CONTROL NUMBER listed below.

CONTROL NUMBER



Appointment of Proxyholder

I/We, being holder(s) of Niocorp Developments Ltd. hereby appoint(s):
Mark A. Smith, Chief Executive Officer of the Company, or failing him, Peter
Dickie, President of the Company,

OR

Print the name of the person you are
appointing if this person is someone
other than the Chairman of the
Meeting.

as my/our proxyholder with full power of substitution and to attend, act and to vote for and on behalf of the shareholder in accordance with the following direction (or if no directions have been given, as the proxyholder sees fit) and all other matters that may properly come before the Annual General and Special Meeting of shareholders of Niocorp Developments Ltd. to be held at Suite 700, 595 Burrard Street, Vancouver, British Columbia, Canada, on December 15, 2014, at 2:00 PM (Pacific Standard Time) and at any adjournment or postponement thereof.

VOTING RECOMMENDATIONS ARE INDICATED BY **HIGHLIGHTED TEXT** OVER THE BOXES.

For

Against

1. Number of Directors

To set the number of Directors at six (6).

2. Election of Directors

For Withhold

For Withhold

For Withhold

Fold

01. Mark A. Smith

02. Peter Dickie

03. Michael Morris

04. David Beling

05. Joe D. Cecil

06. Tony Fulton

For

Withhold

3. Appointment of Auditors

Appointment of Davidson & Company LLP as Auditors of the Company for the ensuing year and authorizing the Directors to fix their remuneration.

For

Against

4. Stock Option Plan

To approve by ordinary resolution the adoption of the 2014 Stock Option Plan.

For

Against

Fold

5. Amendment to Articles

To approve by ordinary resolution an amendment to the Company's Articles by adding Advance Notice Provisions.

Authorized Signature(s) - This section must be completed for your instructions to be executed.

I/We authorize you to act in accordance with my/our instructions set out above. I/We hereby
revoke any proxy previously given with respect to the Meeting. If no voting instructions are
indicated above, this Proxy will be voted as recommended by Management.

Signature(s)

Date

DD / MM / YY

Interim Financial Statements - Mark this box if you would
like to receive Interim Financial Statements and
accompanying Management's Discussion and Analysis by
mail.

Annual Financial Statements - Mark this box if you would
like to receive the Annual Financial Statements and
accompanying Management's Discussion and Analysis by
mail.

Information Circular - Mark this box if you would like to
receive the Information Circular by mail for the next
securityholders' meeting.

If you are not mailing back your proxy, you may register online to receive the above financial report(s) by mail at www.computershare.com/maillinglist.



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