MATERIAL CHANGE REPORT UNDER SECTION 7.1 OF

NATIONAL INSTRUMENT 51-102

Name and Address of Company

Archean Star Resources Inc. (the "Company")
410 - 744 West Hastings Street
Vancouver, BC V6C 1A5

Date of Material Change

June 23, 2011

News Release

The news release was disseminated on June 23, 2011, by Marketwire and posted on the Company's website and SEDAR with the British Columbia Securities Commission, the Alberta Securities Commission, and the Ontario Securities Commission.

Summary of Material Change

The Company reports that two additional tenements have been granted by the WA Department of Mines to Teck Australia Pty, Ltd, ("Teck") on the Gnaweeda Gold Project, ("Gnaweeda") Meekatharra, Western Australia.

The Company has granted 400,000 incentive stock options to consultants and employees exercisable for five years at $0.15 cents.

Full Description of Material Change

ARCHEAN STAR RESOURCES INCREASES SIZE OF GNAWEEDA CLAIMS:

Archean Star Resources Inc. and its wholly owned subsidiary, Archean Star Resources Australia Pty Ltd (together "Archean" or the "Company") report that, two additional tenements have been granted by the WA Department of Mines to Teck Australia Pty, Ltd, ("Teck") on the Gnaweeda Gold Project, ("Gnaweeda") Meekatharra, Western Australia.

The two tenements, E51/1419 and E51/1420, were applied for after a 2009 geophysical program identified geophysical anomalies at Gnaweeda that extended beyond the original tenement boundaries.

E51/1419 consists of two blocks and is located at the northwest corner of tenement E51/927 to cover the extension of a large structural/alteration target striking generally from the center of the new tenement to the northeast. E51/1420 also consists of two blocks and is located approximately halfway up the eastern boundary of Tenement E51/926 and was located to cover a portion of the large magnetic low anomaly that extends beyond the eastern boundary of E51/926 to the center of tenement E51/1420.

The Company is currently conducting an IP program at the St. Anne's prospect, projected to be completed by the end of July, 2011, to assist in targeting diamond drill collars.

Under the terms of the Underlying Agreement between Teck and Chalice Gold Mines Ltd (“Chalice”), as of February 2011, Chalice’s interest in Gnaweeda has been diluted from 30% to 20.26%. Chalice elected not to participate in the funding for the 2010 – 2011 Joint Venture work program and has also elected to not participate in the 2011 – 2012 Joint Venture work program.

The Company has granted 400,000 incentive stock options to consultants and employees exercisable for five years at $0.15 cents.

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Archean Star Resources Inc. is a junior exploration company that, through its wholly owned subsidiary, Archean Star Resources Australia Pty Ltd, has entered into an Option Agreement, subject to a 75% back in right, to earn 100% of Teck Australia Pty Ltd’s (“Teck”) interest in Chalice Gold Mines Limited’s Gnaweeda Gold Project in West Australia. Kent Exploration Inc. (TSX-V: KEX) with approximately 10,000,000 shares or 35% of the outstanding common shares, is the controlling shareholder of Archean.

This News Release has been prepared on behalf of the Archean Star Resources Inc. Board of Directors, which accepts full responsibility for its contents.

Reliance on Subsection 7.1(2) of National Instrument 51-102

Not applicable

Omitted Information

No information has been omitted on the basis that it is confidential information.

Executive Officer

Graeme O’Neill, President

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Fax: 1-888-282-7763

Date of Report

Dated at Vancouver, BC, this 24th day of June, 2011.

By Archean Star Resources Inc.

“Graeme O’Neill”

Graeme O’Neill, President