



CERTIFICATE OF ACCREDITATION

In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-

ALS CHEMEX SOUTH AFRICA (PTY) LTD
Co. Reg. No.: 2001/025760/07

Facility Accreditation Number: **T0387**

is a South African National Accreditation System accredited Testing laboratory
provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying schedule of accreditation
Annexure "A", bearing the above accreditation number for


CHEMICAL ANALYSIS

The facility is accredited in accordance with the recognised International Standard

ISO/IEC 17025:2005

The accreditation demonstrates technical competency for a defined scope and the operation of a
laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the
relevant SANAS accreditation symbol to issue facility reports and/or certificates



Mr R Josias
Chief Executive Officer

Effective Date: 13 May 2013
Certificate Expires: 02 April 2018



ANNEXURE A


SCHEDULE OF ACCREDITATION

Facility Number: T0387

<p>Permanent Address of Laboratory: ALS Chemex SA (Pty) Ltd 53 Angus Crescent Long Meadow Business Park East Entrance Edenvale 1610</p> <p>Postal Address: Suite 38 Private Bag X10010 Edenvale 1610 Tel: (011) 608-0555 Fax: (011) 608-3163 E-mail: neeta.day@alsglobal.com</p>	<p>Technical Signatories: Ms N Daya Ms B Ntuli (Inc. Au-AA,Au-ICP,PGM-ICP,ME-ICP41, &61,ME-OG46&62) Ms S Bageloo (Inc Au-AA,Au-ICP,PGM-ICP,ME- ICP41&61,ME-OG46&62) Mr B Zondi (Inc.- Au-AA,Au-ICP,PGM-ICP,ME- ICP41&61,ME-OG46&62) Mr M Stone (ME-XRF21u, ME-XRF05(U) Mrs T Mokoena (C-IR07, S-1R08)</p> <p>Management Signatory Mr M Stone</p> <p>Nominated Representative: Ms N Daya</p> <p>Issue No.: 07 Date of Issue: 21 May 2013 Expiry Date: 02 April 2018</p>	
<p align="center">Materials / Products Tested</p>	<p align="center">Type of Tests / Properties Measured, Range of Measurement</p>	<p align="center">Standard Specifications, Equipment / Technique Used</p>
<p>Ore, Rock and Soil</p>	<p>Determination of Au and Ag by Lead Collection Fire Assay and Gravimetric Finish</p> <p>Determination of Au by Lead Collection Fire Assay and Atomic Absorption Spectrometry</p> <p>Determination of Au, Pt and Pd by Lead Collection Fire Assay and ICP-AES</p> <p>Multi-Element (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Ti, Tl, U, V, W, Zn) Determination by Aqua Regia Digestion and ICP-AES</p> <p>Multi-Element (Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, K, La, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Rb, S, Sb, Sc, Se, Si, Sn Sr, Ta, Te, Ti, Tl, U, V, W, Y, Zn, Zr) Determination by 4-Acid Digestion and ICP-AES</p>	<p>Au-GRA21, Au-GRA22</p> <p>Au-AA23, Au-AA24, Au-AA25, Au-AA26</p> <p>Au-ICP21, Au-ICP22, PGM-ICP23, PGM-ICP24, PGM-ICP27</p> <p>ME-ICP41</p> <p>ME-ICP61</p>

Original Date of Accreditation: 03 April 2008

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Field Manager

ANNEXURE A

Facility No.: T387
Date of Issue: 21 May 2013
Expiry Date: 02 April 2018

Materials / Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Equipment / Technique Used
Ore and Rock	Ag, Cu, Pb and Zn by Aqua Regia Digestion and ICP- AES	ME-OG46
	Ag, Cu, Pb and Zn by 4-Acid Digestion and ICP- AES	ME-OG62
Ores Rocks Soil	Determination of U by pressed pellet and Analysis by Wavelength Dispersive XPF Finish	ME-XRF05(U)
Ores Rocks	Iron Ore by XRF Fusion	ME-XRF21u
Ores Rocks Soil	Total Carbon by Leco furnace and Infrared Spectroscopy	C-IR07
Ores Rocks Soil	Total Sulphur by Leco furnace and Infrared Spectroscopy	S-IR08

Original Date of Accreditation: 03 April 2008

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ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM



Field Manager