

ANNEXURE A  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0685**

**Permanent Address of Laboratory:**

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**Technical Signatories:**

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 14, 15, 16 & 29)

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<b>Material or Products Tested</b>	<b>Type of Tests/ Properties Measured, Range of Measurement</b>	<b>Standard Specifications, Techniques / Equipment Used</b>
<b>CHEMICAL</b>		
Water (Including waste and process)	Total Alkalinity	ALM 01
	Chloride (Cl)	ALM 02
	Sulphate (SO <sub>4</sub> )	ALM 03
	Orthophosphate (PO <sub>4</sub> )	ALM 04
	Ammonium (NH <sub>4</sub> )	ALM 05
	Nitrate (NO <sub>3</sub> )	ALM 06
	Nitrite (NO <sub>2</sub> )	ALM 07
	Fluoride (F)	ALM 08
	Hexavalent chromium (Cr <sup>6+</sup> )	ALM 09
	Chemical oxygen demand (COD)	ALM 10
	Determination of pH and electrical conductivity @ 25°C by potentiometric	ALM 20
Turbidity (Nephelometric method)	ALM 21	

Water (Including waste and process)	Total dissolved solids (TDS) @ 180°C	ALM 24
	Total suspended solids (TSS) @ 103-105°C	ALM 25
	<b>Calculations:</b> Total hardness Magnesium hardness Calcium hardness Sodium adsorption ratio (SAR) Total dissolved solids (TDS) Cations Anions Cations & Anions balance Bicarbonate Alkalinity (HCO <sub>3</sub> ) Carbonate Alkalinity (CO <sub>3</sub> ) Hydroxide Alkalinity (OH) Free carbon dioxide (CO <sub>2</sub> ) Total carbon dioxide Langlier saturation index (LSI) pHs Converting PO <sub>4</sub> as P, to PO <sub>4</sub> Converting NO <sub>2</sub> as N, to NO <sub>2</sub> Converting NO <sub>3</sub> as N, to NO <sub>3</sub> Converting NH <sub>4</sub> as N, to NH <sub>4</sub>	ALM 26

**Determination of dissolved (ALM), Acid Soluble (ALMA) and Total Metals (ALMT) by ICP OES**

Water (Including waste and process)	Calcium (Ca)	ALM/ALMA/ALMT 30
	Magnesium (Mg)	ALM/ALMA/ALMT 30
	Sodium (Na)	ALM/ALMA/ALMT 30
	Potassium (K)	ALM/ALMA/ALMT 30
	Aluminium (Al)	ALM/ALMA/ALMT 31
	Cadmium (Cd)	ALM/ALMA/ALMT 31
	Cobalt (Co)	ALM/ALMA/ALMT 31
	Chromium (Cr)	ALM/ALMA/ALMT 31
	Copper (Cu)	ALM/ALMA/ALMT 31
	Iron (Fe)	ALM/ALMA/ALMT 31
	Manganese (Mn)	ALM/ALMA/ALMT 31
	Nickel (Ni)	ALM/ALMA/ALMT 31
	Lead (Pb)	ALM/ALMA/ALMT 31
	Zinc (Zn)	ALM/ALMA/ALMT 31
	Boron (B)	ALM/ALMA/ALMT 33
	Barium (Ba)	ALM/ALMA/ALMT 33

Water (Including waste and process)	Beryllium (Be)	ALM/ALMA/ALMT 33
	Molybdenum (Mo)	ALM/ALMA/ALMT 33
	Silicon (Si)	ALM/ALMA 33
	Strontium (Sr)	ALM/ALMA/ALMT 33
	Vanadium (V)	ALM/ALMA/ALMT 33
	Arsenic (As)	ALM/ALMA 34
	Selenium (Se)	ALM/ALMA 34
	Uranium (U)	ALM/ALMA 37
	Total Organic Carbon (TOC)	ALM 63
	Screening for Cyanide (CN)	ALM 13
	Free Cyanide (CN)	ALM 14
	Weak Acid Dissociable Cyanide (WAD)	ALM 15
	Total Oil and Grease (TOG)	ALM 29
Water (Including waste and Process) and Soil	Total Cyanide (CN)	ALM 16
<b>MICROBIOLOGY</b>		
Water (Including waste and process)	Enumeration of coliforms and <i>Escherichia coli</i> by membrane filtration	ALM 40
	Heterotrophic plate count	ALM 43
<b>ENVIRONMENTAL</b>		
Atmospheric dust fall (Including Sampling)	Dust deposition (rate)	ALM 27
	Dust deposition (solute)	ALM 27
	Dust deposition (insoluble)	ALM 27

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Original Date of Accreditation: 25 March 2015

ISSUED BY THE SOUTH AFRICAN NATIONAL ACCREDITATION SYSTEM

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**Acting Accreditation Manager**