# Laboratory Accreditation Programmes

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# Schedule to CERTIFICATE OF ACCREDITATION



New Zealand Steel Limited		Client Number 39		
Private Bag 9212 131 Mission Bus	21, Victoria Street West, h Rd , RD 1, Waiuku, 26 375-8111	Auckland, 1142 81		
Telephone 03	575-0111	www.nz5t <del>66</del> 1.00.nz		
Authorised Repu Mr David Grange Laboratory Mana	r <b>esentative</b> r ger			
<b>Programme</b> Chemical Testing	Laboratory			
Accreditation Nu	<b>umber</b> 101	Initial Accreditation Date 18 July 1978		
<b>Conformance Standard</b> ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories				
Laboratory Services Summary				
2.01 2.04 2.41 2.81	Metals and Alloys Ores and Minerals Waters Other Specified Inorga	nic Material		
Key Technical Personnel				
Ms Jannie Doeve Mr David Grange Mr Ravi Rama Mr Paul Tupe	endans r	2.41 2.01 2.04, 2.81 2.01		

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IANZ; Level 1, 626 Great South Road, Ellerslie, Auckland 1051 Private Bag 28908, Remuera, Auckland 1541 Tel 09-525 6655 <u>info@ianz.govt.nz</u> ianz.govt.nz				

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New Zealand Steel Limited Chemical Testing Laboratory SCOPE OF ACCREDITATION

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## 2.01 Metals and Alloys

(a) Ferrous materials

(h) Other metals and alloys

### Carbon and low alloy steels

The following elements by optical emission vacuum spectrometric analysis in accordance with ASTM E415-21, and JIS G 1253

AluminiumBoronCobaltCopperMolybdenumNitrogenPhosphorusSiliconTitaniumTungsten

Carbon Lead Niobium Sulphur Vanadium

Chromium Manganese Nickel Tin Zirconium

### White irons

The following elements by optical emission vacuum spectrometric analysis.

Aluminium	Boron	Carbon	Chromium
Copper	Lead	Magnesium	Manganese
Molybdenum	Niobium	Nickel	Phosphorus
Silicon	Sulphur	Tin	Titanium
Vanadium	·		

#### Stainless and weathering steel

The following elements by optical emission vacuum spectrometric analysis in accordance with ASTM E415-21 (modified)

Aluminium	Boron	Carbon	Chromium
Cobalt	Copper	Lead	Manganese
Molybdenum	Nitrogen	Niobium	Nickel
Phosphorus	Silicon	Sulphur	Tin
Titanium	Tungsten	Vanadium	Zirconium
litanium	lungsten	Vanadium	Zirconium

## 2.04 Ores and Minerals

(a) Ferrous ores

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New Zealand Steel Li Chemical Testing Lab SCOPE OF ACCRED	mited oratory ITATION		Accreditation N	lumber 101
The following elemer (TA 3210.003)	nts by X Ray Fluorescence	spectrophotometric ana	llysis based on In-hou	ise methods
Aluminium Iron Potassium Vanadium	Calcium Manganese Silicon Zinc	Chromium Magnesium Sodium	Copper Phosphorus Titanium	
2.41 Waters				
(b) Non-pota	ble waters (ground waters	5)		
The following tests are in accordance with APHA "Standard Methods for the Examination of Water and Wastewater" (23 <sup>rd</sup> Edition)				
The following elemen accordance with APH	nts by inductively coupled pl HA 3120 A and 3120 B.	asma optical emission	spectroscopy (ICP-O	ES) in
Boron Copper Nickel	Cadmium Lead Phosphorus	Chromium Manganese Vanadium	Cobalt Molybdenum Zinc	
(d) Effluents and trade wastes				
The following tests are in accordance with APHA Standard Methods for the Examination of Water and Wastewater (23 <sup>rd</sup> Edition) except where otherwise indicated.				
Dissolved oxygen Oil and grease pH Temperature (0-140 °C) Total suspended solids		4500-O C In-house by non-dispersive Infra Red Spectroscopy 4500-H+ B In-house by digital thermometer 2540 D		
The following elements by inductively coupled plasma optical emission spectroscopy (ICP-OES) in accordance with APHA 3120 A and 3120 B.				
Cadmium Iron Zinc	Chromium (total) Lead	Cobalt Manganese	Copper Nickel	
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## 2.81 Other Specified Inorganic Material

#### (a) Steel making slags

The following elements by XRF spectrophotometric analysis in accordance with in-house methods

Aluminium Magnesium Silicon Calcium Phosphorus Titanium Iron Potassium Vanadium Manganese Sodium

#### **References:**

- APHA American Public Health Association
- ASTM American Society for Testing and Materials
- JIS Japanese Industrial Standard

Operations	Manager
Auth	orisation