CERTIFICATE OF ACCREDITATION

Southern QA Limited **Client Number 1644**

PO Box 15120, Aranui, Christchurch, 8643
19 Helanca Avenue, Wainoni, Christchurch, 8061

Telephone **03 381-1670** **www.sqal.co.nz**

Authorised Representative
Mike Smith
QA Manager

Programme
Mechanical Testing Laboratory

Accreditation Number 400 **Initial Accreditation Date** 28 May 1990

Conformance Standard
ISO/IEC 17025:2017
General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

4.71	Coatings
4.75	Welder Qualification Tests
4.76	Metals and Metal Products
4.79	Metallographic Tests on Metals
4.81	Non Destructive Tests by Radiography
4.82	Non Destructive Tests by Ultrasonics
4.83	Non Destructive Tests by Visual Inspection
4.84	Non Destructive Tests by Dye Penetrant Methods
4.85	Non Destructive Tests by Magnetic Particle Methods
4.86	Non Destructive Tests by Eddy Current
4.87	Non Destructive Tests by Specialised Techniques

Key Technical Personnel

Mr Dean Aldridge	4.75, 4.81, 4.83, 4.84, 4.85
Mr Casey Ayers	4.75, 4.76, 4.79, 4.81, 4.82, 4.83, 4.84, 4.85
Mr Michael Bell	4.75, 4.76, 4.79, 4.81, 4.83
Mr Albert Caldwell	4.82, 4.83, 4.84, 4.85
Mr Ian Crawford	4.83
Mr Rick Cummins	4.82 (selected), 4.83, 4.85 (selected)
Mr Kevin Gibson	4.76, 4.85
Mr Shane Harvey	4.82 (a)(e), 4.83, 4.84, 4.85 (selected)

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Mrs Hendrina (Rene) Hill	4.71
Mr Ryan Isherwood	4.82, 4.83, 4.85
Mr David Leech	4.75, 4.83, 4.85, 4.86
Mr Milan Mehta	4.83, 4.84, 4.85 (selected)
Mr Rob Penney	4.75, 4.76, 4.79, 4.81, 4.82, 4.83, 4.85, 4.87(d)
Mr Grant Russell	4.75, 4.76, 4.79, 4.81, 4.83, 4.85
Mr Glen Shanks	4.75 (selected), 4.81, 4.82 (a)(e), 4.83, 4.84, 4.85, 4.86
Mr Greg Shea	4.75 (selected), 4.81, 4.82, 4.83, 4.85 (selected)
Mr Lee Smith	4.82, 4.83, 4.84, 4.85
Mr Paul Smith	4.81, 4.83, 4.85
Mr Peter Thomson	4.71
Mr Rob Van Loenhout	4.75, 4.79, 4.82 ((a)ii)(c)(e), 4.83, 4.85

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Christchurch, Hamilton, Invercargill, Wellington

4.71 Coatings

The following tests in accordance with the listed or similar standards:

ASTM D3359	Rating Adhesion by Tape Test
ASTM D4541	Pull-Off Strength of Coatings Using Portable Adhesion Testers Method E: Self Alignment
SSPC-PA2	Conformance to Dry Coating Thickness Requirements – Electronic Gauge
AS 3894.3	Site testing of protective coatings – Determination of dry film thickness
AS 3894.5	Site testing of protective coatings – Determination of surface profile
ISO 8501-1	Preparation of steel substrates – Visual assessment of surface cleanliness
ISO 8502-6	Tests for the assessment of surface cleanliness – Extraction of soluble contaminants

4.75 Welder Qualification Tests

Visual, macro-examination, bend and break tests in accordance with the following standards:

API 1104	Welding of pipelines and related facilities
AS 1554 parts 1 to 7	Structural steel welding
AS 1665	Welding of aluminium structures
ASME IX	Welding Qualifications
AS/NZS 2205.2.1	Methods for destructive testing of welds in metal Transverse butt tensile tests
AS/NZS 2205.3.1	Destructive tests on welds in metallic materials – Bend tests
AS/NZS 2205.4.1	Destructive testing of welds in metal – Fracture test
AS/NZS 2205.4.2	Methods for destructive testing of welds in metal Fillet break test
AS/NZS 2980	Qualification of welders for fusion welding of steels
AS/NZS 9606-1	Qualification testing of welders – Fusion welding – Part 1: Steels
BS EN ISO 15614	Welding procedure test – Arc and gas welding of steels and arc welding of nickel and nickel alloys
BS EN ISO 9606-1	Qualification testing of welders – Fusion welding Part 1: Steels
ISO 5173	Destructive tests on welds in metallic materials — Bend tests
ISO 9017	Destructive tests on welds in metallic materials — Fracture test
ISO 17639	Destructive tests on welds in metallic materials — Macroscopic and microscopic examination of welds

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4.76 Metals and Metal Products

(e) Hardness tests

In accordance with the following standards:

ASTM A956	Leeb Hardness Testing of Steel Products

4.79 Metallographic Tests on Metals

Test methods in accordance with the following standards:

AS 2205.5.1, Method 5.1	Macro Test – Cross-section examination
ISO 17639	Macroscopic and Microscopic examination of welds

4.81 Non Destructive Tests by Radiography

(a) Radiographic examination of metals

(i)	Single wall or rolled product - thickness measurement - corrosion pitting	
(ii)	Welded Joints	Aluminium, Iron Alloys, Stainless Steel
(iii)	Castings	Iron Alloys, Stainless Steel

4.82 Non Destructive Tests by Ultrasonics

(a) Ultrasonic examination of metals
(Aluminium, Copper, Iron Alloys, Nickel, Magnesium and Zinc)

(i)	Single wall or rolled product - thickness measurements - corrosion pitting
(ii)	Welded Joints
(iii)	Castings
(iv)	Forgings
(v)	Extruded products
(vi)	Nozzle and node welds

(c) Ultrasonic examination of components and assemblies

(ii)	Bonded assemblies
(iv)	Thickness measurement

(e) Manual Phased Array
(Aluminium, Copper, Iron Alloys, Nickel, Magnesium and Zinc)

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(i) Single wall or rolled product
- thickness measurements
- corrosion pitting

(ii) Welded Joints
(iii) Castings
(iv) Forgings
(v) Extruded products

4.83 Non Destructive Tests by Visual Inspection

(a) Visual inspection of metals
(Aluminium, Iron Alloys, Stainless Steel)

(i) Flat or rolled products
(ii) Welded joints
(iii) Castings
(iv) Forgings

4.84 Non Destructive Tests by Dye Penetrant Methods

Penetrant Testing in accordance with standards:
(Aluminium, Copper, Iron Alloys, Nickel, Magnesium, Zinc and Stainless Steel)

(a) Visible dye

(i) Water washable
(ii) Solvent removable method

(b) Fluorescent dye

(i) Water washable
(ii) Solvent removable method

4.85 Non Destructive Tests by Magnetic Particle Methods

Magnetic Particle Testing in accordance with standards:

(a) Magnetic flow method

(i) Welded joints
(ii) Forgings
(iii) Castings
(iv) Machined parts

(b) Current flow method **Amps AC/DC 5000 Amps**

(i) Welded joints

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(ii) Forgings
(iii) Castings
(iv) Machined parts

(c) Coil method **Amps AC/DC**

(i) Welded joints
(ii) Forgings
(iii) Castings
(iv) Machined parts

4.86 Non Destructive Tests by Eddy Current
(all metals)

(a) Surface flaw detection
(b) Metallic coating thickness measurement
(c) Sorting of materials and components
(d) Sub-surface flaw detection
(e) Weld testing

4.87 Non Destructive Tests by Specialised Techniques

(d) Encoded Phased Array (Thickness and weld tests)

BRANCH LABORATORIES

Christchurch
19 Helanca Drive
Wainoni
Christchurch 8061

Hamilton
51 Riverlea Road
Hamilton 3216

Invercargill
37 River Street
Prestonville
Invercargill 9810

Wellington
Unit 10
82 Eastern Hutt Road
Lower Hutt 5019

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