

## PROVE Water Meter Testing Laboratory

Reference: BA1-19-1-SUM-99B163161-1

Date: 18-Oct-19

Company Name	Ballina Shire Council	Address	40 Cherry Street
Client Name	Marco Romanet	City/Suburb	Ballina
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Phone	(02) 6686 1299	Postal/Zip Code	2478
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Dear Marco,

Meter serial number 99B163161 – 20mm Elster water meter was tested in accordance with clauses 8 and 9 of NMI publication NITP 14 as per our NATA scope of accreditation.

The meter was tested at flow rates of 300, 600, 1200 and 2400 L/h as per Table 1 in WSA spec 11 - 2012 Compliance Testing of In-service Water Meters, with weightings of 27%, 42%, 23% and 8% respectively, as defined in AS 3565.4 – 2007 Table 2.

The results at each flow rate in report number BA1-19-1-REP-99B163161-1 show that the meter is within specification and falls into Criterion 1 limits ( $\pm 2\%$ ), with the average weighted error calculated as -0.70%.

After completion of the accuracy test a full mechanical inspection of meter 99B163161 (see Figure 1 below) was conducted, with the results as found below;



Figure 1- Exploded view of meter 99B163161

### Mechanical Inspection

Meter Serial No:	99B163161					
Seals	<input checked="" type="checkbox"/> Manufacturer	<input type="checkbox"/> Missing	<input type="checkbox"/> N/A			
Meter Body	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged				
Meter Index	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged				
Number Wheels	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged	<input type="checkbox"/> Excessive Play	<input type="checkbox"/> Faulty		
Under Gears	<input type="checkbox"/> N/A	<input checked="" type="checkbox"/> Good Condition	<input type="checkbox"/> Excessive Play	<input type="checkbox"/> Damaged	<input type="checkbox"/> Faulty	
Chamber	<input type="checkbox"/> N/A	<input type="checkbox"/> No Wear	<input checked="" type="checkbox"/> Normal Wear	<input type="checkbox"/> Major Wear	<input type="checkbox"/> Reverse Wear	<input type="checkbox"/> Damaged
Rotor/Impellor	<input type="checkbox"/> N/A	<input type="checkbox"/> No Wear	<input checked="" type="checkbox"/> Normal Wear	<input type="checkbox"/> Major Wear	<input type="checkbox"/> Reverse Wear	<input type="checkbox"/> Damaged
Corrosion	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Minor	<input type="checkbox"/> Major			
Non Return Valve(s)	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged			
Inlet Strainer	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Intact	<input type="checkbox"/> Damaged			
Comments	No mechanical faults were found, and the meter appeared to be in good working order.					

Yours sincerely,

**Anthony Bauduccio** (BApp.Sc (App.Phys))  
Senior Scientist- PROVE Water Meter Testing

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