PO Box 1751
Adelaide SA 5001

250 Victoria Square
Adelaide SA 5000

Tel: 1300 653 366
Fax: 1300 883 171

Internet: www.awqc.com.au

Email: producttesting@awqc.com.au

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Itron Australasia Pty Ltd
Attn: Shames Ud-Din
8 Rosberg Road
Wingfield
SA 5013
AUSTRALIA

22/08/2023

Dear Shames,

Please find the attached report to AS/NZS 4020:2018 (Incorporating Amendment No.1) for Intelis wSource V2 DN20 Ball Seat End Connection with Dual Check Valve submitted for testing.

Should you have any enquiries about the report or any other matters pertaining to the Standard please contact the laboratory on 61 8 7424 1512

Yours sincerely,

Michael Glasson
Supervisor Product Testing

PO Box 1751
Adelaide SA 5001

250 Victoria Square
Adelaide SA 5000

Tel: 1300 653 366
Fax: 1300 883 171

Internet: www.awqc.com.au

Email: producttesting@awqc.com.au

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FINAL REPORT

Report ID : 368462

Report Information

Submitting Organisation :	00109368 : Itron Australasia Pty Ltd
Account :	130346 : Itron Australasia Pty Ltd
AWQC Reference :	130346-2023-CSR-4 : Prod Test: Meter with Dual Check Valve
Project Reference :	PT-5233
Product Designation :	Intelis wSource V2 DN20 Ball Seat End Connection with Dual Check Valve
Composition of Product :	See attachment.
Product Manufacturer :	ITRON, FRANCE.
Use of Product :	In-Line/Water Meter.
Sample Selection:	As provided by the submitting organisation.
Testing Requested :	**AS/NZS 4020:2018 TESTING OF PRODUCTS FOR USE IN CONTACT WITH DRINKING WATER**
Product Type :	Composite
Samples :	Samples were prepared and controlled as described in Appendix A of AS/NZS 4020:2018 (Incorporating Amendment No.1)
Extracts :	Extracts were prepared as described in Appendix/Clause C, D, E, F, G, H, 6.8.
Project Completion Date :	22-Aug-2023
Project Comment :	Sample received 13-Apr-2023, testing commenced 15-Apr-2023.

THE RESULTS STATED IN THIS REPORT RELATE TO THE SAMPLE OF THE PRODUCT SUBMITTED FOR TESTING TO ASNZS 4020:2018. ANY CHANGES IN THE MATERIAL FORMULATION, PROCESS OF MANUFACTURE, THE METHOD OF APPLICATION, OR THE SURFACE AREA-TO-VOLUME RATIO IN THE END USE, COULD AFFECT THE SUITABILITY OF THE PRODUCT FOR USE IN CONTACT WITH DRINKING WATER

Notes

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Summary of Results

APPENDIX/CLAUSE	RESULTS
C – Taste	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
D – Appearance	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
E – Growth of Aquatic Micro-organisms	Passed at the end-use exposure.
F – Cytotoxic Activity	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
G – Mutagenic Activity	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
H – Metals	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.
6.8 – Organic Compounds	Passed at the in-the-product exposure with a scaling factor of 0.01 applied.

Test Methods

Test(s) in Appendix	AWQC Test Method	NATA Accredited
C	T0320-01	Y
D	TO029-01 & TO018-01	Y
E	TO014-03	Y
F	TM-001	Y
G	TM-002	Y
H	TIC-006	Y

Organic Test Methods

Test(s) in Clause	Test Method	NATA Accredited
Clause 6.8	TMZ-M36	Y
	EP239	Y
	EP132-LL	Y
	EP075C	Y
	EP075ASIM	Y

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Laboratory Information

Laboratory	NATA accreditation ID
Product Testing	1115
Australian Laboratory Services Pty Ltd - New South Wales	825,992
Inorganic Chemistry - Physical	1115
Protozoology	1115
Organic Chemistry	1115
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Waste Water	1115

Summary Comment : The AWQC is not NATA accredited for the following tests: Nitrosamines, Phenols, Phthalate Esters and Polycyclic Aromatic Hydrocarbons. These tests are subcontracted to testing facilities that are NATA accredited for these analyses.

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CLAUSE 6.2 Taste

Sample Description	The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.
Extraction Temperature	50°C ± 2°C.
Test Method	Taste (Appendix C)
Test Information	
Scaling Factor	A scaling factor of 0.01 was applied.
Results	Not detected (sample and controls).
Evaluation	The product passed the requirements of clause 6.2 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.
Number of Samples	2.
Test Comment	Not applicable.

Peter Christopoulos
APPROVED SIGNATORY

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CLAUSE 6.3 Appearance

Sample Description

The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature

50°C ± 2°C.

Test Method

Appearance (Appendix D)

Scaling Factor

A scaling factor of 0.01 was applied.

Results

	Test (- Blank)	Maximum Allowed	Units
Colour	1	5	HU
Turbidity	<0.1	0.5	NTU

Evaluation

The product passed the requirements of clause 6.3 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.

Number of Samples

1.

Test Comment

Not applicable.

Andrew Ford
APPROVED SIGNATORY

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CLAUSE 6.4 Growth of Aquatic Micro-organisms

Sample Description

The non-metallic components were immersed at the in-use exposure. The surface area was in the range 1000 mm² per Litre and 15,000 mm² per Litre. Extracts were prepared using 2000 mL volumes of test water.

Test Method

Growth of Aquatic Micro-organisms (Appendix E)

Inoculum

The volume of the inoculum was 200 mL

Scaling Factor

Not applicable

Results

Mean Dissolved Oxygen	Control	7.5	mg/L
Mean Dissolved Oxygen Difference	Positive Reference	5.3	mg/L
	Negative Reference	<0.1	mg/L
	Test	<0.10	mg/L

Evaluation

The product passed the requirements of clause 6.4 when tested at the end-use exposure.

Number of Samples

1.

Test Comment

The positive reference value is outside the specified range in E10.2, however, the value indicates the organic substance (paraffin) is capable of being utilised by aquatic micro-organi sms.

Thuy Diep
APPROVED SIGNATORY

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CLAUSE 6.5 Cytotoxic Activity

Sample Description

The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature

50°C ± 2°C.

Test Method

Cytotoxic Activity (Appendix F)

Scaling Factor

A scaling factor of 0.01 was applied.

Results

24 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death
48 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death
72 HR	Non-cytotoxic response, healthy cell morphology with <30% cell death

Blank Control Results

Blank; non-cytotoxic response, healthy cell morphology with <30% cell death

Positive Control Results

Positive control; Cytotoxic response, unhealthy cell morphology with >70% cell death

The test extracts and blank extracts were used to prepare nutrient growth medium and subsequently used to grow a cell line (ATCC Number CCL 81) in the analysis. In addition zinc sulphate (0.4 mmol) was used for the positive control in the analysis.

Evaluation

The product passed the requirements of clause 6.5 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.

Number of Samples

1.

Test Comment

Not applicable.

Mira Maric
APPROVED SIGNATORY

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CLAUSE 6.6 Mutagenic Activity

Sample Description The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 50°C ± 2°C.

Test Method Mutagenic Activity (Appendix G)

Scaling Factor A scaling factor of 0.01 was applied.

Results

Bacteria Strain	S9	Number of Revertants per Plate: Blank	Sample Extract	Positive Controls	
Salmonella typhimurium TA98	-	31, 33, 38	31, 31, 29	3430, 3349, 3242	NPD (20µg)
Mean ± Standard deviation		34.0 ± 3.6	30.3 ± 1.2	3340.3 ± 94.3	
	+	31, 28, 27	29, 29, 32	2789, 3037, 2690	2-AF (20µg)
Mean ± Standard deviation		28.7 ± 2.1	30.0 ± 1.7	2838.7 ± 178.8	
Salmonella typhimurium TA102	-	465, 492, 492	501, 511, 450	2862, 2574, 2284	Mitomycin C(10µg)
Mean ± Standard deviation		483.0 ± 15.6	487.3 ± 32.7	2573.3 ± 289.0	
	+	540, 504, 552	485, 506, 524	1628, 1747, 1540	
Mean ± Standard deviation		532.0 ± 25.0	505.0 ± 19.5	1638.3 ± 103.9	

The differences in the mean number of revertants between the blank and test extracts do not exceed two standard deviations; accordingly, there is no evidence of a mutagenic response.

Comments S9 was used as the metabolic activator. NPD (4-nitro-o-phenylenediamine) and Mitomycin C are specific positive controls for strains TA98 - and TA102 (- and +) respectively, while 2-AF (2-aminofluorene) when used in conjunction with S9 is a positive control for TA98+.

Evaluation The product passed the requirements of clause 6.6 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.

Number of Samples 1.

Test Comment Not applicable.

Peter Christopoulos
APPROVED SIGNATORY

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CLAUSE 6.7 Metals

Sample Description
The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature
50°C ± 2°C.

Test Method
Metals (Appendix H)

Scaling Factor
A scaling factor of 0.01 was applied.

Method of Analysis
Concentration of the metals described in Table 2 of the AS/NZS 4020:2018 are determined as follows:
Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium and Silver by Inductively Coupled Plasma Mass Spectrometry.

Results

Final Extract	Limit of Reporting mg/L	Blank mg/L	Test 1 mg/L	Test 2 mg/L	Max Allowed mg/L
Aluminium	0.001	0.001	0.033	0.030	0.2
Antimony	0.0003	<0.0003	<0.0003	<0.0003	0.003
Arsenic	0.00006	<0.00006	0.00040	0.00043	0.01
Barium	0.0003	<0.0003	0.0275	0.0274	0.7
Boron	0.020	<0.020	0.118	0.109	1.4
Cadmium	0.0001	<0.0001	<0.0001	<0.0001	0.002
Chromium	0.0001	<0.0001	0.0004	0.0004	0.05
Copper	0.0001	0.0004	0.0396	0.0391	2.0
Iron	0.0005	0.0013	0.0060	0.0069	0.3
Lead	0.0001	<0.0001	0.0001	0.0002	0.01
Manganese	0.0001	<0.0001	0.0020	0.0020	0.1
Mercury	0.00003	<0.00003	<0.00003	<0.00003	0.001
Molybdenum	0.0001	<0.0001	0.0003	0.0003	0.05
Nickel	0.0002	<0.0002	0.0010	0.0010	0.02
Selenium	0.0001	<0.0001	<0.0001	<0.0001	0.01
Silver	0.00002	<0.00002	<0.00002	<0.00002	0.1

Evaluation
The product passed the requirements of clause 6.7 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.

Number of Samples
1.

Test Comment
Not applicable.

Dzung Bui
APPROVED SIGNATORY

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CLAUSE 6.8 Organic Compounds

Sample Description The meter was tested at the in-the-product exposure. Each meter held approximately 80 mL of water. Extracts were prepared using 1000 mL volumes of 50 mg/L hardness water.

Extraction Temperature 50°C ± 2°C.

Test Method Organic Compounds (Clause 6.8). The maximum allowed (Max Allowed) values are taken from the Australian Drinking Water Guidelines and Drinking-water Standards for New Zealand. Please note, some reported compounds have no guideline value.

Scaling Factor A scaling factor of 0.01 was applied.

Results

Organic Compound Nitrosamines	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2105258	ES2317948	
1-Nitrosopiperidine (NPip)	<0.003	<0.003	
1-Nitrosopyrrolidine (NPyr)	<0.01	<0.01	
Nitrosomorpholine (NMor)	<0.003	0.005	
N-Nitrosodiethylamine (NDEA)	<0.01	<0.01	
N-Nitrosodimethylamine (NDMA)	<0.003	0.006	0.1 µg/L
N-Nitrosodi-n-propylamine (NDPA)	<0.003	<0.003	
N-Nitrosomethylethylamine (NMEA)	<0.003	<0.003	

Organic Compound Phenols	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2105258	ES2317948	
2 4 5-trichlorophenol	<1.0	<1.0	
2 4 6-trichlorophenol	<1.0	<1.0	20 µg/L
2 4-dichlorophenol	<1.0	<1.0	200 µg/L
2 4-dimethylphenol	<1.0	<1.0	
2 6-dichlorophenol	<1.0	<1.0	
2-chlorophenol	<1.0	<1.0	300 µg/L
2-nitrophenol	<1.0	<1.0	
4-chloro-3-methylphenol	<1.0	<1.0	
m+p cresol	<2.0	<2.0	
o-cresol	<1.0	<1.0	
pentachlorophenol	<2.0	<2.0	9 µg/L
phenol	<1.0	<1.0	

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Organic Compound **Phthalate Esters**	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2105258	ES2317948	
Bis(2-ethylhexyl) phthalate	<10	<10	10 µg/L
Butyl benzyl phthalate	<2	<2	
Di(2-ethylhexyl) adipate	<2	<2	
Diethyl phthalate	<2	<2	
Dimethyl phthalate	<2	<2	
Di-n-butyl phthalate	<2	<2	
Di-n-octyl phthalate	<2	<2	

Organic Compound **Polycyclic Aromatic Hydrocarbons**	Blank µg/L	Test µg/L	Max Allowed
!External Lab Report No.	ES2105258	ES2317948	
Acenaphthene	<0.02	<0.02	
Acenaphthylene	<0.02	<0.02	
Anthracene	<0.02	<0.02	
Benzo(a)anthracene	<0.02	<0.02	
Benzo(a)pyrene	<0.005	<0.005	0.01 µg/L
Benzo(a)pyrene TEQ	<0.005	<0.005	
Benzo(b+j)fluoranthene	<0.02	<0.02	
Benzo(ghi)perylene	<0.02	<0.02	
Benzo(k)fluoranthene	<0.02	<0.02	
Chrysene	<0.02	<0.02	
Dibenzo(a-h)anthracene	<0.02	<0.02	
Fluoranthene	<0.02	<0.02	
Fluorene	<0.02	<0.02	
Indeno(123-cd)pyrene	<0.02	<0.02	
Naphthalene	<0.02	<0.02	
PAH - Total	<0.005	<0.005	
Phenanthrene	<0.02	<0.02	
Pyrene	<0.02	<0.02	

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Organic Compound **Volatile Organic Compounds GCMS**	Blank µg/L	Test µg/L	Max Allowed
1 1 1 2-Tetrachloroethane	<1	<1	
1 1 1-Trichloroethane	<1	<1	
1 1 2 2-Tetrachloroethane	<1	<1	
1 1 2-Trichloroethane	<1	<1	
1 1-Dichloropropene	<1	<1	
1 2 3-Trichlorobenzene	<1	<1	
1 2 3-Trichloropropane	<1	<1	
1 2 4-Trichlorobenzene	<1	<1	
1 2 4-Trimethylbenzene	<1	<1	
1 2-Dibromo-3-chloropropane	<1	<1	1 µg/L
1 2-Dibromoethane	<1	<1	1 µg/L
1 2-Dichlorobenzene	<1	<1	1500 µg/L
1 2-Dichloroethane	<1	<1	3 µg/L
1 2-Dichloropropane	<1	<1	
1 3 5-Trimethylbenzene	<1	<1	
1 3-Dichlorobenzene	<1	<1	
1 3-Dichloropropane	<1	<1	
1 4-Dichlorobenzene	<1	<1	40 µg/L
1,1-Dichloroethane	<1	<1	
1,1-Dichloroethene	<1	<1	30 µg/L
2,2-Dichloropropane	<1	<1	
2-Chlorotoluene	<1	<1	
4-Chlorotoluene	<1	<1	
4-Isopropyltoluene	<1	<1	
Benzene	<1	<1	1 µg/L
Bromobenzene	<1	<1	
Bromochloromethane	<1	<1	
Bromodichloromethane	48	27	60 µg/L
Bromoform	9	6	100 µg/L
Bromomethane	<4	<4	
Carbon tetrachloride	<1	<1	3 µg/L
Chlorobenzene	<1	<1	300 µg/L
Chloroethane	<4	<4	
Chloroform	37	23	400 µg/L
Chloromethane	<4	<4	
cis-1 3-Dichloropropene	<1	<1	
cis-1,2-Dichloroethene	<1	<1	
Dibromochloromethane	46	24	150 µg/L
Dibromomethane	<1	<1	
Dichlorodifluoromethane	<1	<1	
Dichloromethane	<4	<4	4 µg/L
Ethylbenzene	<1	<1	300 µg/L
Hexachlorobutadiene	<0.7	<0.7	0.7 µg/L
Isopropylbenzene	<1	<1	
m+p-Xylenes - Total	<2	<2	

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Organic Compound

Volatile Organic Compounds GCMS	Blank µg/L	Test µg/L	Max Allowed
Naphthalene	<1	<1	
n-Butylbenzene	<1	<1	
n-Propylbenzene	<1	<1	
o-Xylene	<1	<1	
sec-Butylbenzene	<1	<1	
Styrene	<1	<1	30 µg/L
tert-Butylbenzene	<1	<1	
Tetrachloroethene	<1	<1	50 µg/L
Toluene	<1	<1	800 µg/L
Total 1 2-dichloroethene	<2	<2	60 µg/L
Total 1 3-dichloropropene	<2	<2	20 µg/L
Total Trichlorobenzene	<2	<2	30 µg/L
Total Xylene	<3	<3	600 µg/L
trans-1 3-Dichloropropene	<1	<1	
trans-1,2-Dichloroethene	<1	<1	
Trichloroethene	<1	<1	
Trichlorofluoromethane	<1	<1	
Trihalomethanes - Total	140	80	250 µg/L
Vinyl chloride	<0.3	<0.3	0.3 µg/L

Evaluation The product passed the requirements of clause 6.8 when tested at the in-the-product exposure with a scaling factor of 0.01 applied.

Number of Samples

Test Comment Not applicable.

Qiong Huang

APPROVED SIGNATORY

NATA
WORLD RECOGNISED ACCREDITATION

Corporate Accreditation No.1115
Chemical and Biological Testing
Accredited for compliance with ISO/IEC 17025 - Testing

ilac-MRA

Notes

1. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
2. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>