



BAROSSA INFRASTRUCTURE LTD
ATTN: Paul Shanks
PO Box 665
TANUNDA
SA 5352 AUSTRALIA

18/10/2018

Dear Paul

Please find attached the Final Analytical Report for

Customer Service Request: 122622-2018-CSR-1
Account: 122622
Project: AWQC-129792 Barossa Infrastructure Ltd - Routine 18/19

This report has also been sent to: Patsy Biscoe Neville Skipworth

AWQC Sample Receipt hours are Monday and Tuesday 8:30am to 8pm and Wednesday, Thursday and Friday 8:30am to 4:30pm.

Yours sincerely,

Melanie Bolton
Supervisor Customer Services
Melanie.Bolton@sawater.com.au
+61 8 7424 2057





FINAL REPORT: 235620

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This report supercedes the following issued reports: 234671

Report Information

Project Name	AWQC-129792
Customer	BAROSSA INFRASTRUCTURE LTD
CSR_ID	122622-2018-CSR-1

Analytical Results

Sampling Point	84513-Barossa Infrastructure Ltd - Fromms Square Williamstown
Sampled Date	5/10/2018 10:31:39AM
Sample Received Date	5/10/2018 10:31:39AM
Sample Analysis Completed	17/10/2018 11:20:48AM
Sample ID	2018-007-2467
Status	Endorsed
GuidelineType	ECOLI
Collection Type	AWQC Collected

Bacteriology LOR Result

Sample temperature at time of receipt NA

E.coli & Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)

E.coli	^ 110961	14 cfu/100mL
Thermotolerant Coliforms		40 cfu/100mL

Inorganic Chemistry - Metals LOR Result

Sample temperature at time of receipt NA

Arsenic - Total TIC-006 W09-023(ADEL)

Arsenic - Total	0.0003	0.0014 mg/L
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Boron - Soluble TIC-006 W09-023(ADEL)

Boron - Soluble	0.020	0.038 mg/L
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Cadmium - Total TIC-006 W09-023(ADEL)

Cadmium - Total	0.0001	<0.0001 mg/L
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Calcium TIC-004 W09-023(ADEL)

Calcium	0.1	12.2 mg/L
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Chromium - Total TIC-006 W09-023(ADEL)

Chromium - Total	0.0001	0.0033 mg/L
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Iron - Total TIC-006 W09-023(ADEL)

Iron - Total	0.0005	2.377 mg/L
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Lead - Total TIC-006 W09-023(ADEL)

Lead - Total	0.0001	0.0015 mg/L
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Magnesium TIC-004 W09-023(ADEL)

Magnesium	0.05	9.40 mg/L
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Manganese - Total TIC-006 W09-023(ADEL)

Manganese - Total	0.0001	0.0484 mg/L
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Potassium TIC-004 W09-023(ADEL)

Potassium	0.05	3.36 mg/L
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Notes

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Sodium Adsorption Ratio W09-023(ADEL)

Sodium Adsorption Ratio - Calculation 2.66

Sodium TIC-004 W09-023(ADEL)

Sodium 0.1 50.8 mg/L

Sulphur TIC-004 W09-023(ADEL)

Sulphate 1.5 18.3 mg/L

Total Hardness as CaCO3 W09-023(ADEL)

Total Hardness as CaCO3 2.0 69 mg/L

Zinc - Total TIC-006 W09-023(ADEL)

Zinc - Total 0.0003 0.0124 mg/L

Inorganic Chemistry - Nutrients LOR Result

Sample temperature at time of receipt NA

Chloride T0104-02 W09-023(ADEL)

Chloride 4.0 89 mg/L

Nitrate + Nitrite as N T0161-01 W09-023(ADEL)

Nitrate + Nitrite as N 0.003 0.228 mg/L

Nitrogen - Total TMZ-M06 W09-023(ADEL)

Nitrogen - Total 0.78 mg/L

Phosphorus - Total T0109-01 W09-023(ADEL)

Phosphorus - Total 0.005 0.064 mg/L

TKN as N T0112-01 W09-023(ADEL)

TKN as Nitrogen 0.05 0.55 mg/L

Organic Chemistry LOR Result

Sample temperature at time of receipt NA

Organophosphorous and Triazine Pesticides T0800-01 W09-023(ADEL)

Atrazine 0.5 <0.5 µg/L

Azinphos-methyl 0.5 <0.5 µg/L

Diazinon 0.5 <0.5 µg/L

Fenitrothion 0.5 <0.5 µg/L

Hexazinone 0.5 <0.5 µg/L



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Organophosphorous and Triazine Pesticides T0800-01 W09-023(ADEL)

Malathion	0.5	<0.5 µg/L
Parathion	0.5	<0.5 µg/L
Parathion methyl	0.3	<0.3 µg/L
Prometryne	0.5	<0.5 µg/L
Simazine	0.5	<0.5 µg/L

Inorganic Chemistry - Physical LOR Result

Sample temperature at time of receipt NA

Conductivity & Total Dissolved Solids T0016-01 W09-023(ADEL)

Conductivity	1	442 µS/cm
Total Dissolved Solids (by EC)	1.0	240 mg/L

pH T0010-01 W09-023(ADEL)

pH	7.5 pH units
Temperature at which pH is measured	22.0 °C

Turbidity T0018-01 W09-023(ADEL)

Turbidity	0.1	30 NTU
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AWQC Signatories

Vickie Dalgleish - Snr Technical Officer

Andrew Ford - Technical Officer Chemistry

Andrew Kay - Technical Officer Chemistry

John Martini - Method Development Coordinator

Melissa Phillips - Technical Officer Chemistry

Julian Weidenbach - Snr Technical Officer



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Guidelines

ECOLI	Ecoli	Minimum Value	Maximum Value	Units
Guideline Version:2				
Health1				
110960, 110961, 110963, 110964, 120464, 120465, 120466, 120468, 120469, 122450	E.coli	-	0	cfu/100mL
122436, 122437	E.coli/F Coliforms - Presumptive	-	0	cfu/100mL
Primary Contact				
110965, 110967, 110968, 110970, 110972, 120470, 120471, 120472, 120475, 120476	E.coli	-	150	MPN/100mL
110969, 110971, 110973, 110974, 120473, 120474	Faecal coliforms	-	150	cfu/100mL

Analytical Method

Analytical Method Code	Description	Reference Method
T0010-01	Determination of pH	AP4500HB
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0081-01	E.Coli - Membrane filtration	USEPA1604_1H
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0800-01	Nitrogen and Phosphorous Containing Pesticides	USEPA507
TIC-004	Determination of Metals - ICP Spectrometry by ICP2	AP3120
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
W-052	Preparation of Samples for Metal Analysis	AP3030AD

Sampling Method

Sampling Method Code	Description
W09-023	Sampling Method for Chemical Analyses
WMZ-500	Sampling Method for Microbiological Analyses

When samples are taken by customers, samples are analysed as received.



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Laboratory Information

Laboratory	NATA accreditation ID
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Nutrients	1115
Organic Chemistry	1115
Bacteriology	1115
Inorganic Chemistry - Metals	1115



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