



Barossa Infrastructure Ltd
ATTN: Simon Schutz
PO Box 665
TANUNDA
SA 5352 AUSTRALIA

27/05/2021

Dear Simon

Please find attached the Final Analytical Report for

Customer Service Request: 122622-2020-CSR-1
Account: 122622
Project: AWQC-158440 Barossa Infrastructure Ltd - Routine 20/21

This report has also been sent to: 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,

Jason Cutler
Customer Service Officer
Jason.Cutler@sawater.com.au





FINAL REPORT: 310010

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Report Information

Project Name AWQC-158440
Customer Barossa Infrastructure Ltd
CSR_ID 122622-2020-CSR-1

Analytical Results

Customer Sample Description BIL Connection point
Sampling Point 84513-Barossa Infrastructure Ltd - Fromms Square Williamstown
Sampled Date 14/05/2021 7:57:15AM
Sample Received Date 14/05/2021 7:57:15AM
Sample Analysis Completed 26/05/2021 3:57:24PM
Sample ID *2021-003-8932
Status Endorsed
Collection Type AWQC Collected

Bacteriology	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
E.coli & Thermotolerant Coliforms T0081-01 WMZ-500(ADEL)			14/05/2021
E.coli		0 cfu/100mL	
Thermotolerant Coliforms		0 cfu/100mL	

Inorganic Chemistry - Metals	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Arsenic - Total TIC-006 W09-023(ADEL)			17/05/2021
Arsenic - Total	0.0003	0.0004 mg/L	
Boron - Soluble TIC-006 W09-023(ADEL)			17/05/2021
Boron - Soluble	0.020	0.040 mg/L	
Cadmium - Soluble TIC-006 W09-023(ADEL)			17/05/2021
Cadmium - Soluble	0.0001	<0.0001 mg/L	
Calcium TIC-004 W09-023(ADEL)			19/05/2021
Calcium	0.1	9.3 mg/L	
Chromium - Total TIC-006 W09-023(ADEL)			17/05/2021
Chromium - Total	0.0001	0.0004 mg/L	
Iron - Total TIC-006 W09-023(ADEL)			17/05/2021
Iron - Total	0.0005	0.0383 mg/L	
Lead - Total TIC-006 W09-023(ADEL)			17/05/2021
Lead - Total	0.0001	0.0006 mg/L	
Magnesium TIC-004 W09-023(ADEL)			19/05/2021
Magnesium	0.05	5.47 mg/L	



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Manganese - Total TIC-006 W09-023(ADEL)			17/05/2021
Manganese - Total	0.0001	0.0062 mg/L	
Potassium TIC-004 W09-023(ADEL)			19/05/2021
Potassium	0.05	2.26 mg/L	
Sodium Adsorption Ratio W09-023(ADEL)			14/05/2021
Sodium Adsorption Ratio - Calculation		2.37	
Sodium TIC-004 W09-023(ADEL)			19/05/2021
Sodium	0.1	36.9 mg/L	
Sulphur TIC-004 W09-023(ADEL)			19/05/2021
Sulphate	1.5	21.9 mg/L	
Sulphur	0.5	7.3 mg/L	
Total Hardness as CaCO3 W09-023(ADEL)			14/05/2021
Total Hardness as CaCO3	2.0	46 mg/L	
Zinc - Total TIC-006 W09-023(ADEL)			17/05/2021
Zinc - Total	0.0003	0.0032 mg/L	

Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
<i>Sample temperature at time of receipt NA</i>			
Chloride T0104-02 W09-023(ADEL)			25/05/2021
Chloride	4.0	48 mg/L	
Nitrate + Nitrite as N T0161-01 W09-023(ADEL)			24/05/2021
Nitrate + Nitrite as N	0.003	0.054 mg/L	
Nitrogen - Total TMZ-M06 W09-023(ADEL)			14/05/2021
Nitrogen - Total		0.65 mg/L	
Phosphorus - Total T0109-01 W09-023(ADEL)			20/05/2021
Phosphorus - Total	0.005	0.008 mg/L	
TKN as N T0112-01 W09-023(ADEL)			20/05/2021
TKN as Nitrogen	0.05	0.60 mg/L	



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Collection Type	AWQC Collected

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receipt NA			
Conductivity & Total Dissolved Solids T0016-01 W09-023(ADEL)			17/05/2021
Conductivity	2	294 μ S/cm	
Total Dissolved Solids (by EC)	1	162 mg/L	
pH T0010-01 W09-023(ADEL)			17/05/2021
pH		8.5 pH units	
Temperature at which pH is measured		22.3 $^{\circ}$ C	
Turbidity T0018-01 W09-023(ADEL)			14/05/2021
Turbidity	0.1	0.52 NTU	



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AWQC Signatories

- Mira Banasiak - Supervisor Bacteriology
- Dzung Bui - Supervisor Metals and Physical
- Ivana Cech - Technical Officer Chemistry
- Vickie Dalgleish - Snr Technical Officer
- Thuy Diep - Technical Officer Chemistry
- David Evans - Customer Service Officer
- Aji John - Technical Officer Chemistry



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2021-003-8932	84513	BIL Connection point	14/05/2021	pH	Test not processed within holding time

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
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.

Laboratory Information

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



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- Notes
1. The last figure of the result value is a significant figure.
 2. # determination of the component is not covered by NATA Accreditation.
 3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
 4. * indicates an incident has been recorded against the sample. Refer to report footer.
 5. & Indicates the results have changed since the last issued report.
 6. 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>
 7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
 8. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
 9. Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services, the recording of temperature when samples arrive at the AWQC is out of scope.
 10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
 11. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.