PO Box 1751250 Victoria SquareAdelaide SA 5001Adelaide SA 5000

Tel: 1300 653 366 Fax: 1300 883 171



Internet: www.awqc.com.au

Email: awqc@sawater.com.au

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

08/08/2022

Dear Simon

Please find attached the Final Analytical Report for

Customer Service Request:	122622-2022-CSR-1
Account:	122622
Project:	AWQC-173240 Barossa Infrastructure Ltd - Routine 22/23

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,

10. Ala

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



AEN 69336525019

Abusiness unit of the South Australian Water Corporation Page 1 of 11

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FINAL REPORT: 344357

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Analytical Results	
Sampling Point	921120-Barossa Infrastructure CWMS Supply cnr Gomersal and
	Fromm Rd Tanunda
Sampled Date	22/07/2022 10:25:35AM
Sample Received Date	22/07/2022 10:25:35AM
Sample Analysis Completed	5/08/2022 3:55:17PM
Sample ID	*2022-005-6197
Status	Endorsed
Collection Type	AWQC Collected

Bacteriology	LOR	Result	Test Start Date
Sample temperature at time of rece E.coli & Thermotolerant Coliforms T			23/07/2022
E.coli		11 cfu/100mL	
Thermotolerant Coliforms		11 cfu/100mL	

Inorganic Chemistry - Metals	LOR	Result	Test Start Date
Sample temperature at time of receip Arsenic - Total TIC-006 W09-023(ADEL			25/07/2022
Arsenic - Total	0.0003	0.0006 mg/L	
Boron - Soluble TIC-006 W09-023(ADE	iL)		25/07/2022
Boron - Soluble	0.020	0.083 mg/L	
Cadmium - Total TIC-006 W09-023(ADI	EL)		25/07/2022
Cadmium - Total	0.0001	<0.0001 mg/L	
Calcium TIC-004 W09-023(ADEL)			25/07/2022
Calcium	0.1	24.5 mg/L	
Chromium - Total TIC-006 W09-023(AD)EL)		25/07/2022
Chromium - Total	0.0001	0.0009 mg/L	
Iron - Total TIC-006 W09-023(ADEL)			25/07/2022
Iron - Total	0.0005	0.1356 mg/L	
Lead - Total TIC-006 W09-023(ADEL)			25/07/2022
Lead - Total	0.0001	0.0008 mg/L	
Magnesium TIC-004 W09-023(ADEL)			25/07/2022
Magnesium	0.05	9.10 mg/L	
Manganese - Total TIC-006 W09-023(A	DEL)		25/07/2022
Manganese - Total	0.0001	0.0313 mg/L	
Potassium TIC-004 W09-023(ADEL)		•	25/07/2022
Potassium	0.05	26.6 mg/L	
Sodium Adsorption Ratio TMZ-M06 W	09-023(ADEL)	-	22/07/2022



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Analytical Results			
Sampling Point		ssa Infrastructure CWMS Supply cnr Gome	ersal and
Sampled Date	Fromm Rd Ta 22/07/2022		
Sample Received Date			
Sample Received Date 22/07/2022 10:25:35AM Sample Analysis Completed 5/08/2022 3:55:17PM			
Sample ID	*2022-005-6	197	
Status	Endorsed		
Collection Type	AWQC Colle	cted	
Sodium Adsorption Ratio TMZ-M06 W09-	023(ADEL)		22/07/2022
Sodium Adsorption Ratio - Calculation		3.87	
Sodium TIC-004 W09-023(ADEL)			25/07/2022
Sodium	0.1	88.4 mg/L	
Sulphur TIC-006 W09-023(ADEL)			25/07/2022
Sulphate	0.6	65.4 mg/L	
Sulphur	0.2	21.8 mg/L	
Total Hardness as CaCO3 TMZ-M06 W09	-023(ADEL)		22/07/2022
Total Hardness as CaCO3	2.0	99 mg/L	
Zinc - Total TIC-006 W09-023(ADEL)			25/07/2022
Zinc - Total	0.0003	0.0696 mg/L	
Inorganic Chemistry - Nutrients	LOR	Result	Test Start Date
Sample temperature at time of receipt N	Ά		
Chloride T0104-02 W09-023(ADEL)			25/07/2022
Chloride	4.0	91 mg/L	
Nitrate + Nitrite as N T0161-01 W09-023(A Nitrate + Nitrite as N	ADEL) 0.003	3.21 mg/L	03/08/2022
Nitrogen - Total TMZ-M06 W09-023(ADEL)	J.	22/07/2022
Nitrogen - Total	,	30.21 mg/L	
Phosphorus - Total T0109-01 W09-023(Al	DEL)	5	04/08/2022
Phosphorus - Total	0.005	9.57 mg/L	
TKN as N T0112-01 W09-023(ADEL)			04/08/2022
TKN as N TOTIZ-OT W03-023(ADEL)	0.05	07.0	

Inorganic Chemistry - Physical	LOR	Result	Test Start Date
Sample temperature at time of receips Conductivity & Total Dissolved Solids		ADEL)	25/07/2022
Conductivity	2	897 µS/cm	

27.0 mg/L

0.05



TKN as Nitrogen

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Analytical Results				
Sampling Point		921120-Barossa Infrastructure CWMS Supply cnr Gomersal and		
Impled Date Fromm Rd Tanunda 22/07/2022 10:25:35AM				
Sample Received Date	22/07/2022			
Sample Analysis Completed				
Sample ID	5/08/2022 3 *2022-005-6			
Status	Endorsed			
Collection Type	AWQC Colle	ected		
Conductivity & Total Dissolved Solids To	016-01 W09-023(/	ADEL)	25/07/2022	
Note		Conductivity measurement is corrected to 25°C		
Total Dissolved Solids (by EC)	1	497 mg/L		
pH T0010-01 W09-023(ADEL)			25/07/2022	
pH		7.4 pH units		
Temperature at which pH is measured		22.1 °C		
Turbidity T0018-01 W09-023(ADEL)			25/07/2022	
Turbidity	0.1	4.4 NTU		
Sampling	LOR	Result	Test Start Date	
Sample temperature at time of receipt N	A			
Chlorine T0012-01 W09-023(ADEL)			22/07/2022	
Chlorine - Free	0.1	<0.1 mg/L		
Chlorine - Total	0.1	<0.1 mg/L		
Monochloramine	0.1	<0.1 mg/L		
Inorganic Chemistry - Waste Water	LOR	Result	Test Start Date	
Sample temperature at time of receipt N				
Biochemical Oxygen Demand - Total T01 Biochemical Oxygen Demand	53-01 W09-023(A) 2	DEL) 7 mg/L	22/07/2022	
Suspended Solids T0160-01 W09-023(AD			22/07/2022	
	,			



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AWQC Signatories

Dzung Bui - Supervisor Metals and Physical

Vickie Dalgleish - Senior Technical Officer Bacteriology & Molecular Testing

Thuy Diep - Technical Officer Chemistry

David Evans - Technical Officer Chemistry

Kerrie Jooste - Manager Chemistry Services

Aji John - Technical Officer Chemistry

Melissa Phillips - Technical Officer Chemistry

Gayle Polley - Supervisor Nutrients and Waste

Kamilla Springer - Senior Technical Officer Chemistry

Sam Williams - Senior Field Technician



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Incidents

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2022-005-6196	84513	Barossa Infrastucture Ltd - Fromms Square Williamstown	22/07/2022	Turbidity	Test not processed within holding time
2022-005-6196	84513	Barossa Infrastucture Ltd - Fromms Square Williamstown	22/07/2022	рН	Test not processed within holding time
2022-005-6196	84513	Barossa Infrastucture Ltd - Fromms Square Williamstown	22/07/2022	TKN as N	Dependent results are within acceptable analytical uncertainty
2022-005-6197	921120	Barossa Infrastructure CWMS Supply cnr Gomersal and Fromm Rd Tanunda	22/07/2022	Turbidity	Test not processed within holding time
2022-005-6197	921120	Barossa Infrastructure CWMS Supply cnr Gomersal and Fromm Rd Tanunda	22/07/2022	рН	Test not processed within holding time

Analytical Method

Analytical Method Code	Description	Reference Method
W-052	Preparation of Samples for Metal Analysis	AP3030AD
T0800-01	Nitrogen and Phosphorous Containing Pesticides	USEPA507
TMZ-M06	Derived Results and Data Checks	
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
T0160-01	Suspended Solids 103C to 105C	AP4500
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0050-01	Trihalomethanes	IH
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0153-01	Biochemical Oxygen Demand	AP5210B
T0081-01	E. coli - Membrane filtration	USEPA1604_1H
T0012-01	Chlorine by classical and portable meter (field test)	AP4500CLF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
TMZ-M06	Derived Results and Data Checks	APHA2340B
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
T0161-01	Nitrate + Nitrate (NOx) - Automated Flow Colorimetry	AP4500NO3I
T0010-01	Determination of pH	AP4500HB
TIC-004	Determination of Metals - ICP Spectrometry by ICP2	AP3120





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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 - Waste Water	1115	
Sampling	1115	
Inorganic Chemistry - Nutrients	1115	
Organic Chemistry	1115	
Bacteriology	1115	
Inorganic Chemistry - Metals	1115	



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.awgc.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.