

**Customer Information**

**Laboratory Information**

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<b>CSR ID</b>	122622-2024-CSR-1	<b>ABN</b>	69336525019 A business unit of the South Australian Water Corporation
<b>Account #</b>	122622	<b>AWQC Reference</b>	389996
<b>Project</b>	AWQC-195380 Barossa Infrastructure Ltd - Routine 24/25	<b>Date samples received</b>	12/07/2024
<b>Samples #</b>	2	<b>Date reported</b>	6/09/2024
<b>Purchase order #</b>		<b>Page</b>	Page 1 of 11

**Incidents**

Sample ID	S.Point	Description	Sampled Date	Analysis (where Applicable)	Incident Description
2024-004-5993	92112	Barossa Infrastructure	12/07/2024	Turbidity	Test not processed within holding time
2024-004-5993	92112	Barossa Infrastructure	12/07/2024	pH	Test not processed within holding time
2024-004-5993	92112	Barossa Infrastructure	12/07/2024	Suspended Solids	Test not processed within holding time
2024-004-5994	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	12/07/2024	Turbidity	Test not processed within holding time
2024-004-5994	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	12/07/2024	pH	Test not processed within holding time
2024-004-5994	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	12/07/2024	TKN as N	Dependent results are within acceptable analytical uncertainty
2024-004-5994	84513	Barossa Infrastructure Ltd - Fromms Square Williamstown	12/07/2024	Suspended Solids	Test not processed within holding time

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This report supercedes the following issued reports: 388749

**AWQC Signatories**

This document has been electronically signed by the authorised signatories below .

Name	Title
Mira Banasiak	Supervisor Bacteriology and Molecular Testing Se
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Dinh Nguyen	Technical Officer Chemistry
Gayle Polley	Supervisor Nutrients and Waste

Parameter	Description		BIL Water	CWMS Water
	LOR	Units	Result	Result
Sampling Point			84513-Barossa Infrastructure Ltd - Fromms Square Williamstown	92112-Barossa Infrastructure
Sample ID			*2024-004-5994	*2024-004-5993
Sampled Date			12/07/2024 08:37	12/07/2024 09:58
Collection Type			AWQC Collected	AWQC Collected

Australian Laboratory Services Pty Ltd - New South Wales

Bottle Temp (°C): NA NA

Multiresidue Pesticides Method: EP202LLEP206LLEP234 W09-023

Tested Date:

External Lab Report No.	-	ES2423303	ES2423303		
2 4 5-T	- µg/L	<0.01	<0.01		
2 4 6-T	- µg/L	<0.1	<0.1		
2 4-D	- µg/L	<0.01	<0.01		
2 4-DB	- µg/L	<0.01	<0.01		
2 4-DP	- µg/L	<0.01	<0.01		
2 6-D	- µg/L	<0.1	<0.1		
2-Aminobenzimidazole	- µg/L	<0.01	<0.01		
3-Hydroxy Carbofuran	- µg/L	<0.02	<0.02		
4-Chlorophenoxy acetic acid	- µg/L	<0.01	<0.01		
Abamectin	- µg/L	<0.1	<0.1		
Acephate	- µg/L	<0.5	<0.5		
Alachlor	- µg/L	<0.1	<0.1		
Aldicarb	- µg/L	<0.05	<0.05		
Ametryn	- µg/L	<0.01	<0.01		
Aminopyralid	- µg/L	<0.1	<0.1		
Amitraz	- µg/L	<100	<100		
Atrazine	- µg/L	<0.01	<0.01		
Atrazine-desethyl	- µg/L	<0.1	<0.1		
Atrazine-desisopropyl	- µg/L	<0.1	<0.1		
Azinphos-ethyl	- µg/L	<0.02	<0.02		
Azinphos-methyl	- µg/L	<0.02	<0.02		
Azoxystrobin	- µg/L	<0.1	<0.1		
Bendiocarb	- µg/L	<0.10	<0.10		
Benomyl	- µg/L	<0.01	<0.01		
Bensulfuron methyl	- µg/L	<0.1	<0.1		
Bensulide	- µg/L	<0.1	<0.1		
Boscalid	- µg/L	<0.1	<0.1		
Bromacil	- µg/L	<0.02	<0.02		
Bromophos-ethyl	- µg/L	<0.10	<0.10		
Butachlor	- µg/L	<0.1	<0.1		
Carbaryl	- µg/L	<0.01	<0.01		
Carbendazim (Thiophanate methyl)	- µg/L	<0.1	<0.1		
Carbofuran	- µg/L	<0.01	<0.01		
Carboxin	- µg/L	<0.1	<0.1		
Carfentrazone-ethyl	- µg/L	<0.1	<0.1		
Chlorantraniliprole	- µg/L	<0.1	<0.1		

Description	84513-Barossa	92112-Barossa
Sampling Point	Infrastructure Ltd - Fromms Square Williamstown	Infrastructure
Sample ID	*2024-004-5994	*2024-004-5993
Sampled Date	12/07/2024 08:37	12/07/2024 09:58
Collection Type	AWQC Collected	AWQC Collected

Parameter	LOR	Units	Result	Result
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Australian Laboratory Services Pty Ltd - New South Wales

Bottle Temp (°C): NA NA

Multiresidue Pesticides Method: EP202LLEP206LLEP234 W09-023

Tested Date:

Parameter	LOR	Units	Result	Result
Chlorfenvinphos	-	µg/L	<0.02	<0.02
Chloroxuron	-	µg/L	<0.1	<0.1
Chlorpyrifos	-	µg/L	<0.02	<0.02
Chlorpyrifos-methyl	-	µg/L	<0.2	<0.2
Chlorsulfuron	-	µg/L	<0.2	<0.2
Clopyralid	-	µg/L	<0.05	<0.05
Coumaphos	-	µg/L	<0.01	<0.01
Cyanazine	-	µg/L	<0.02	<0.02
Cyproconazole	-	µg/L	<0.02	<0.02
Cyprodinil	-	µg/L	<0.01	<0.01
Cyromazine	-	µg/L	<0.05	<0.05
Demeton-O	-	µg/L	<0.02	<0.02
Demeton-O & Demeton-S	-	µg/L	<0.02	<0.02
Demeton-S	-	µg/L	<0.02	<0.02
Demeton-S-methyl	-	µg/L	<0.02	<0.02
Diazinon	-	µg/L	<0.01	<0.01
Dicamba	-	µg/L	<0.01	<0.01
Dichlorvos	-	µg/L	<0.20	<0.20
Diclofop-methyl	-	µg/L	<0.05	<0.05
Difenoconazole	-	µg/L	<0.02	<0.02
Diffubenzuron	-	µg/L	<0.1	<0.1
Dimethoate	-	µg/L	<0.02	<0.02
Diphenamid	-	µg/L	<0.1	<0.1
Disulfoton	-	µg/L	<0.05	<0.05
Diuron	-	µg/L	<0.02	<0.02
EPN	-	µg/L	<0.05	<0.05
EPTC	-	µg/L	<0.1	<0.1
Ethion	-	µg/L	<0.02	<0.02
Ethoprophos	-	µg/L	<0.01	<0.01
Etridiazole	-	µg/L	<0.5	<0.5
Fenamiphos	-	µg/L	<0.01	<0.01
Fenarimol	-	µg/L	<0.02	<0.02
Fenchlorphos (Ronnell)	-	µg/L	<10	<10
Fenitrothion	-	µg/L	<2	<2
Fenoxycarb	-	µg/L	<0.1	<0.1
Fensulfothion	-	µg/L	<0.01	<0.01
Fenthion	-	µg/L	<0.05	<0.05
Flamprop methyl	-	µg/L	<0.1	<0.1
Fluometuron	-	µg/L	<0.01	<0.01

Description	84513-Barossa	92112-Barossa
Sampling Point	Infrastructure Ltd - Fromms Square Williamstown	Infrastructure
Sample ID	*2024-004-5994	*2024-004-5993
Sampled Date	12/07/2024 08:37	12/07/2024 09:58
Collection Type	AWQC Collected	AWQC Collected

Parameter	LOR	Units	Result	Result
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Australian Laboratory Services Pty Ltd - New South Wales

Bottle Temp (°C): NA NA

Multiresidue Pesticides Method: EP202LLEP206LLEP234 W09-023

Tested Date:

Fluroxypyr	-	µg/L	<0.05	<0.05
Flusilazole	-	µg/L	<0.02	<0.02
Formothion	-	µg/L	<20	<20
Fosetyl Aluminium	-	µg/L	<10	<10
Haloxypop	-	µg/L	<0.1	<0.1
Hexaconazole	-	µg/L	<0.02	<0.02
Hexazinone	-	µg/L	<0.02	<0.02
Imazapyr	-	µg/L	<10.0	<10.0
Imidacloprid	-	µg/L	<0.01	<0.01
Indoxacarb	-	µg/L	<0.1	<0.1
Iodosulfuron methyl	-	µg/L	<0.1	<0.1
Irgarol	-	µg/L	<0.002	<0.002
Isoproturon	-	µg/L	<0.1	<0.1
Malathion	-	µg/L	<0.02	<0.02
MCPA	-	µg/L	<0.01	<0.01
MCPB	-	µg/L	<0.01	<0.01
Mecoprop	-	µg/L	<0.01	<0.01
Metalaxyl	-	µg/L	<0.1	<0.1
Metalaxyl-M	-	µg/L	<0.1	<0.1
Metaldehyde	-	µg/L	<10	<10
Methidathion	-	µg/L	<0.1	<0.1
Methiocarb	-	µg/L	<0.01	<0.01
Methomyl	-	µg/L	<0.01	<0.01
Metolachlor	-	µg/L	<0.01	<0.01
Metribuzin	-	µg/L	<0.02	<0.02
Metsulfuron Methyl	-	µg/L	<0.10	<0.10
Mevinphos	-	µg/L	<0.02	<0.02
Molinate	-	µg/L	<0.1	<0.1
Monocrotophos	-	µg/L	<0.02	<0.02
Myclobutanil	-	µg/L	<0.1	<0.1
Naftalofos	-	µg/L	<1.0	<1.0
Napropamide	-	µg/L	<0.1	<0.1
Nitralin	-	µg/L	<0.1	<0.1
Norflurazon	-	µg/L	<0.1	<0.1
Novaluron	-	µg/L	<0.1	<0.1
Omethoate	-	µg/L	<0.01	<0.01
Oxamyl	-	µg/L	<0.01	<0.01
Oxyfluorfen	-	µg/L	<1.0	<1.0
Paclobutrazole	-	µg/L	<0.05	<0.05

Description	84513-Barossa	92112-Barossa
Sampling Point	Infrastructure Ltd - Fromms Square Williamstown	Infrastructure
Sample ID	*2024-004-5994	*2024-004-5993
Sample Date	12/07/2024 08:37	12/07/2024 09:58
Collection Type	AWQC Collected	AWQC Collected

Parameter	LOR	Units	Result	Result
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Australian Laboratory Services Pty Ltd - New South Wales

Bottle Temp (°C): NA NA

Multiresidue Pesticides Method: EP202LLEP206LLEP234 W09-023

Tested Date:

Parameter	LOR	Units	Result	Result
Parathion	-	µg/L	<0.2	<0.2
Parathion-methyl	-	µg/L	<0.5	<0.5
Pebulate	-	µg/L	<0.1	<0.1
Penconazole	-	µg/L	<0.01	<0.01
Pendimethalin	-	µg/L	<0.05	<0.05
Phorate	-	µg/L	<0.1	<0.1
Picloram	-	µg/L	<0.05	<0.05
Pirimicarb	-	µg/L	<0.1	<0.1
Pirimiphos-ethyl	-	µg/L	<0.01	<0.01
Pirimiphos-methyl	-	µg/L	<0.01	<0.01
Prochloraz	-	µg/L	<0.1	<0.1
Profenofos	-	µg/L	<0.01	<0.01
Promecarb	-	µg/L	<0.1	<0.1
Prometryn	-	µg/L	<0.01	<0.01
Propachlor	-	µg/L	<0.1	<0.1
Propamocarb	-	µg/L	<0.1	<0.1
Propargite	-	µg/L	<0.1	<0.1
Propazine	-	µg/L	<0.01	<0.01
Propiconazole	-	µg/L	<0.05	<0.05
Propyzamide	-	µg/L	<0.1	<0.1
Prothiofos	-	µg/L	<0.1	<0.1
Pyraclostrobin	-	µg/L	<0.1	<0.1
Pyrazophos	-	µg/L	<0.1	<0.1
Pyrimethanil	-	µg/L	<0.02	<0.02
Pyriproxyfen	-	µg/L	<0.1	<0.1
Pyroxsulam	-	µg/L	<0.1	<0.1
Quinclorac	-	µg/L	<0.1	<0.1
Rimsulfuron	-	µg/L	<0.1	<0.1
Siduron	-	µg/L	<0.1	<0.1
Silvex (2 4 5-TP/Fenoprop)	-	µg/L	<0.01	<0.01
Simazine	-	µg/L	<0.02	<0.02
Spirotetramat	-	µg/L	<0.1	<0.1
Sulfotep	-	µg/L	<0.005	<0.005
Sulprofos	-	µg/L	<0.05	<0.05
Tebuconazole	-	µg/L	<0.01	<0.01
Tebuthiuron	-	µg/L	<0.02	<0.02
Temephos	-	µg/L	<0.02	<0.02
Terbufos	-	µg/L	<0.01	<0.01
Terbutylazine	-	µg/L	<0.01	<0.01

Description	84513-Barossa	92112-Barossa
Sampling Point	Infrastructure Ltd - Fromms Square Williamstown	Infrastructure
Sample ID	*2024-004-5994	*2024-004-5993
Sampled Date	12/07/2024 08:37	12/07/2024 09:58
Collection Type	AWQC Collected	AWQC Collected

Parameter	LOR	Units	Result	Result
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**Australian Laboratory Services Pty Ltd - New South Wales**

Bottle Temp (°C): NA NA

**Multiresidue Pesticides Method: EP202LLEP206LLEP234 W09-023**

Tested Date:

Parameter	LOR	Units	Result	Result
Terbutryn	-	µg/L	<0.01	<0.01
Tetrachlorvinphos	-	µg/L	<0.01	<0.01
Tetraconazole	-	µg/L	<0.1	<0.1
Thiamethoxam	-	µg/L	<0.02	<0.02
Thiobencarb	-	µg/L	<0.01	<0.01
Thiodicarb	-	µg/L	<0.01	<0.01
Thiometon	-	µg/L	<0.5	<0.5
Toltrazuril	-	µg/L	<0.5	<0.5
Triadimefon	-	µg/L	<0.1	<0.1
Triadimenol	-	µg/L	<0.1	<0.1
Triazophos	-	µg/L	<0.005	<0.005
Trichlorfon	-	µg/L	<0.02	<0.02
Trichloronate	-	µg/L	<0.5	<0.5
Triclopyr	-	µg/L	<0.01	<0.01
Trifloxystrobin	-	µg/L	<0.1	<0.1
Trifloxysulfuron-sodium	-	µg/L	<0.1	<0.1
Trifluralin	-	µg/L	<10.0	<10.0
Trinexapac Ethyl	-	µg/L	<1	<1
Vernolate	-	µg/L	<0.1	<0.1

**Bacteriology**

Bottle Temp (°C): NA NA

**E.coli & Thermotolerant Coliforms Method: T0081-01 WMZ-500**

Tested Date: 12/07/2024 12/07/2024

Parameter	LOR	Units	Result	Result
E.coli	-	cfu/100mL	0	0
Thermotolerant Coliforms	-	cfu/100mL	0	0

**Inorganic Chemistry - Metals**

Bottle Temp (°C): NA NA

**Metals Method: TIC-006 W09-023**

Tested Date: 15/07/2024 15/07/2024

Parameter	LOR	Units	Result	Result
Aluminium - Total	0.001	mg/L	0.020	0.027
Arsenic - Total	0.00006	mg/L	0.00035	0.00041
Bismuth - Total	0.0001	mg/L	<0.0001	<0.0001
Boron - Soluble	0.020	mg/L	0.056	0.059
Cadmium - Total	0.0001	mg/L	<0.0001	<0.0001
Calcium	0.05	mg/L	13.8	14.6
Chromium - Total	0.0001	mg/L	<0.0001	<0.0001
Cobalt - Total	0.0001	mg/L	<0.0001	<0.0001
Copper - Total	0.0001	mg/L	0.0031	0.0037

Description		84513-Barossa		92112-Barossa	
Sampling Point		Infrastructure Ltd - Fromms Square Williamstown		Infrastructure	
Sample ID		*2024-004-5994		*2024-004-5993	
Sample Date		12/07/2024 08:37		12/07/2024 09:58	
Collection Type		AWQC Collected		AWQC Collected	
Parameter	LOR	Units	Result	Result	

### Inorganic Chemistry - Metals

Bottle Temp (°C): NA NA

#### Metals Method: TIC-006 W09-023

Tested Date: 15/07/2024 15/07/2024

Iron - Total	0.0005	mg/L	0.0125	0.0030	
Lead - Total	0.0001	mg/L	<0.0001	<0.0001	
Lithium - Total	0.0002	mg/L	0.0020	0.0020	
Magnesium	0.05	mg/L	10.0	10.00	
Manganese - Total	0.0001	mg/L	0.0088	0.0066	
Mercury - Total	0.00003	mg/L	<0.00003	<0.00003	
Molybdenum - Total	0.0001	mg/L	0.0003	0.0003	
Nickel - Total	0.0002	mg/L	0.0006	0.0005	
Potassium	0.05	mg/L	3.67	3.79	
Selenium - Soluble	0.0001	mg/L	<0.0001	<0.0001	
Sodium	0.1	mg/L	59.4	60.5	
Sulphate	0.6	mg/L	42.6	43.2	
Sulphur	0.2	mg/L	14.2	14.4	
Uranium - Soluble	0.0001	mg/L	<0.0001	<0.0001	
Vanadium - Soluble	0.0001	mg/L	0.0003	0.0004	
Zinc - Total	0.0003	mg/L	0.0016	0.0028	

#### Metals Method: TMZ-M06 W09-023

Tested Date: 12/07/2024 12/07/2024

Sodium Adsorption Ratio - Calculation	-		2.97	2.99	
Total Hardness as CaCO3	2.0	mg/L	76	78	

### Inorganic Chemistry - Nutrients

Bottle Temp (°C): NA NA

#### Ammonia as N Method: T0100-01 W09-023

Tested Date: 17/07/2024 17/07/2024

Ammonia as N	0.005	mg/L	0.792	0.819	
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#### Chloride Method: T0104-02 W09-023

Tested Date: 16/07/2024 16/07/2024

Chloride	4.0	mg/L	90	89	
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#### Fluoride Method: T0105-01 W09-023

Tested Date: 15/07/2024 15/07/2024

Fluoride	0.10	mg/L	0.91	0.91	
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#### Nitrate + Nitrite as N Method: T0161-01 W09-023

Tested Date: 17/07/2024 17/07/2024

Nitrate + Nitrite as N	0.003	mg/L	0.083	0.051	
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#### Nitrogen - Total Method: TMZ-M06 W09-023

Tested Date: 12/07/2024 12/07/2024

Nitrogen - Total	-	mg/L	0.85	0.93	
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#### Phosphorus - Total Method: T0109-01 W09-023

Tested Date: 18/07/2024 18/07/2024

Phosphorus - Total	0.005	mg/L	0.017	0.034	
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Description		84513-Barossa Infrastructure Ltd - Fromms Square Williamstown		92112-Barossa Infrastructure	
Sampling Point		84513-Barossa Infrastructure Ltd - Fromms Square Williamstown		92112-Barossa Infrastructure	
Sample ID		*2024-004-5994		*2024-004-5993	
Sample Date		12/07/2024 08:37		12/07/2024 09:58	
Collection Type		AWQC Collected		AWQC Collected	
Parameter	LOR	Units	Result	Result	

### Inorganic Chemistry - Nutrients

Bottle Temp (°C): NA NA

#### TKN as N Method: T0112-01 W09-023

Tested Date: 18/07/2024 18/07/2024

TKN as Nitrogen	0.05	mg/L	0.77	0.88		
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### Inorganic Chemistry - Physical

Bottle Temp (°C): NA NA

#### Alkalinity Carbonate Bicarbonate and Hydroxide Method: T0101-01 W09-023

Tested Date: 16/07/2024 16/07/2024

Alkalinity as Calcium Carbonate	-	mg/L	60	61		
Bicarbonate	-	mg/L	70	68		
Carbonate	-	mg/L	2	3		
Hydroxide	-	mg/L	0	0		

#### Conductivity & Total Dissolved Solids Method: T0016-01 W09-023

Tested Date: 16/07/2024 16/07/2024

Conductivity	2	µS/cm	520	518		
Note	-		Conductivity measurement is corrected to 25°C	Conductivity measurement is corrected to 25°C		
Total Dissolved Solids (by EC)	1	mg/L	288	287		

#### pH Method: T0010-01 W09-023

Tested Date: 16/07/2024 16/07/2024

pH	-	pH units	8.3	8.4		
Temperature at which pH is measured	-	°C	22.1	21.9		

#### Turbidity Method: T0018-01 W09-023

Tested Date: 15/07/2024 15/07/2024

Turbidity	0.1	NTU	0.27	0.13		
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### QLD Health Forensic & Scientific Services

Bottle Temp (°C): NA NA

#### Uranium 238 Method: QIS32317 W09-023

Tested Date:

# IExternal Lab Report No.	-		24PQ73	24PQ72		
# Uranium - 238	0.003	Bq/L	<0.003	<0.003		

### Inorganic Chemistry - Radiation

Bottle Temp (°C): NA NA

#### Gross Alpha and Beta Activity (K-40 Corrected) Method: TM493-03 W09-023

Tested Date: 12/07/2024 12/07/2024

Gross Alpha Activity	-	Bq/L	<0.30	<0.26		
Gross Beta Activity (K-40 corrected)	-	Bq/L	<0.15	<0.14		

### Sampling

Bottle Temp (°C): NA NA





Description		84513-Barossa		92112-Barossa	
Sampling Point		Infrastructure Ltd - Fromms Square Williamstown		Infrastructure	
Sample ID		*2024-004-5994		*2024-004-5993	
Sample Date		12/07/2024 08:37		12/07/2024 09:58	
Collection Type		AWQC Collected		AWQC Collected	
Parameter	LOR	Units	Result	Result	

**Sampling**

Bottle Temp (°C): NA NA

**Chlorine Method: T0012-01 W09-023**

Tested Date: 12/07/2024 12/07/2024

Chlorine - Free	0.1	mg/L	<0.1	<0.1		
Chlorine - Total	0.1	mg/L	3.6	3.4		
Monochloramine	0.1	mg/L	3.6	3.4		

**SGS Radiation Services (VIC)**

Bottle Temp (°C): NA NA

**Radium 226 and 228 Method: ME-AU-ENV-NHRQUAS301 W09-023**

Tested Date:

# IExternal Lab Report No.	-		ME354524	ME354524		
Radium - 226	0.04	Bq/L	<0.04	<0.04		
Radium - 228	0.1	Bq/L	<0.1	<0.11		

**Inorganic Chemistry - Waste Water**

Bottle Temp (°C): NA NA

**Biochemical Oxygen Demand - Total Method: T0153-01 W09-023**

Tested Date: 12/07/2024 12/07/2024

Biochemical Oxygen Demand	2	mg/L	<2	<2		
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**Suspended Solids Method: T0160-01 W09-023**

Tested Date: 24/07/2024 24/07/2024

Suspended Solids	1.0	mg/L	<1	<1		
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### Analytical Methods

Analytical Method Code	Description	Reference Method
EP202LLEP206LLEP234	Phenoxy Acid Herbicides / Sulfonylurea Herbicides / Multiresidue Pesticides	
ME-AU-ENV-NHRQUAS301	ME-AU-ENV-NHR-QU-AS301-Measurement by high-resolution gamma ray spectrometry	
QIS32317	QIS32317 QHFSS in-house method	
T0010-01	Determination of pH	AP4500HB
T0012-01	Chlorine by classical and portable meter (field test)	AP4500CLF
T0016-01	Determination of Conductivity - Corrected to 25C	AP2510B
T0018-01	Turbidity - Nephelometric Measurement	APAWWA-WEF
T0081-01	E. coli - Membrane filtration	USEPA1604_1H
T0100-01	Ammonia/Ammonium - Automated Flow Colorimetry	AP4500NH3G
T0101-01	Alkalinity - Automated Acidimetric Titration	AP2320B
T0104-02	Chloride - Discrete Analyser	AP4500CLE
T0105-01	Fluoride by ISE	AP4500FC
T0109-01	Phosphorus - total by discrete analyser	AP4500PF
T0112-01	Nitrogen- Total Kjeldahl by discrete analyser	AP4500NORGA
T0153-01	Biochemical Oxygen Demand	AP5210B
T0160-01	Suspended Solids 103C to 105C	AP4500
T0161-01	Nitrate + Nitrite (NOx) - Automated Flow Colorimetry	AP4500NO3I
TIC-006	Elemental Analysis By ICP- MS	EPA200.8
TM493-03	TM493-03 Water quality - Gross alpha and gross beta activity - Test method using liquid scintillation counting	
TMZ-M06	Derived Results and Data Checks	
TMZ-M06	Derived Results and Data Checks	AP4500NORGA
TMZ-M06	Derived Results and Data Checks	APHA2340B
W-052	Preparation of Samples for Metal Analysis	AP3030AD

### Sampling Methods

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

Sampling Point and Sampled Date are provided when collected by customers. Validity of results are based on information and samples supplied by customers. Unless it is reported that sampling has been performed by AWQC, the samples have been analysed as received.

### Laboratory Information

Laboratory	NATA accreditation ID
Australian Laboratory Services Pty Ltd - New South Wales	825.992
Bacteriology	1115
Customer Service Unit	-
Inorganic Chemistry - Metals	1115
Inorganic Chemistry - Nutrients	1115
Inorganic Chemistry - Physical	1115
Inorganic Chemistry - Radiation	1115
Inorganic Chemistry - Waste Water	1115
QLD Health Forensic & Scientific Services	41
Sampling	1115
SGS Radiation Services (VIC)	2562

## Notes

1. The last figure of the result value is a significant figure.
2. # Indicates determination of the component is not covered by NATA Accreditation .
3. ^ Indicates result is out of specification according to the reference guideline.
4. \* Indicates an incident has been recorded against the sample.
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. Radon-222 analysis. The result has been corrected for decay between sampling and counting date time.
12. Gross alpha activity is referenced to Th230 and traceable via NIST 4342A SRM
13. Gross beta activity is referenced to Sr90/Y90 and traceable via NIST 4919I SRM