

## CERTIFICATE OF ANALYSIS

<b>Work Order</b> : <b>EW2202385</b> <b>Client</b> : <b>KIAMA COUNCIL</b> <b>Contact</b> : <b>MS JULIE MILEVSKI</b> <b>Address</b> : <b>11 MANNING STREET</b> <b>KIAMA NSW, AUSTRALIA 2533</b>  <b>Telephone</b> : <b>+61 02 4232 0557</b> <b>Project</b> : <b>Minnamurra Landfill</b> <b>Order number</b> : <b>PO00011918</b> <b>C-O-C number</b> : <b>----</b> <b>Sampler</b> : <b>Michael Santos, Robert DaLio</b> <b>Site</b> : <b>Minnamurra Landfill</b> <b>Quote number</b> : <b>WO/009/21</b> <b>No. of samples received</b> : <b>20</b> <b>No. of samples analysed</b> : <b>20</b>	<b>Page</b> : 1 of 11 <b>Laboratory</b> : Environmental Division NSW South Coast <b>Contact</b> : Aneta Prosaroski <b>Address</b> : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia  <b>Telephone</b> : 02 42253125 <b>Date Samples Received</b> : 24-May-2022 15:34 <b>Date Analysis Commenced</b> : 24-May-2022 <b>Issue Date</b> : 02-Jun-2022 11:55
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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Aneta Prosaroski	Client Liaison Officer	Laboratory - Wollongong, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW



## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting  
ø = ALS is not NATA accredited for these tests.  
~ = Indicates an estimated value.

- **Analytical work for this work order will be conducted at ALS Sydney.**
- ED041G: LOR raised for Sulfate due to sample matrix
- EK057G: LOR raised for Nitrite due to sample matrix.
- EK059G: LOR raised for NOx due to sample matrix.
- It has been noted that Nitrite is greater than NOx, however this difference is within the limits of experimental variation.
- EP002: It has been noted that DOC is greater than TOC for various samples, however this difference is within the limits of experimental variation.
- pH performed by ALS Wollongong via in-house method EA005FD and EN67 PK.
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- Sampling and groundwater depth measurements completed by ALS Wollongong via inhouse sampling method EN/67.11 Groundwater Sampling Via High Flow Method.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.6 Rivers and Streams.
- Temperature performed by ALS Wollongong via in-house method EA116 and EN67 PK.
- Dissolved oxygen (DO) performed by ALS Wollongong via in-house method EA025FD and EN67 PK.
- All field analysis performed by ALS Wollongong were completed at the time of sampling.
- Salinity performed by ALS Wollongong via in-house method EA020FD and EN67 PK.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 1A	MD 1B	MD 2A	MD 2B	MD 2C
Sampling date / time				24-May-2022 13:10	24-May-2022 13:13	24-May-2022 12:05	24-May-2022 12:10	24-May-2022 12:15	
Compound	CAS Number	LOR	Unit	EW2202385-001	EW2202385-002	EW2202385-003	EW2202385-004	EW2202385-005	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	----	7.6	7.4	7.2	7.1	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	590	13500	8150	29000	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	----	0.3	9.4	5.4	21.7	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	----	19.6	16.8	17.5	16.8	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	----	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	----	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	----	192	832	933	672	
Total Alkalinity as CaCO3	----	1	mg/L	----	192	832	933	672	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	24	581	338	1460	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	----	74	5140	2440	10100	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	----	55	207	184	395	
Magnesium	7439-95-4	1	mg/L	----	10	311	193	707	
Sodium	7440-23-5	1	mg/L	----	43	2510	1360	5920	
Potassium	7440-09-7	1	mg/L	----	11	134	104	252	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	----	0.049	0.087	0.033	0.112	
Iron	7439-89-6	0.05	mg/L	----	0.48	1.22	0.41	1.08	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	----	0.2	1.0	0.7	0.6	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	----	8.43	4.86	27.5	6.88	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	----	<0.01	0.19	<0.01	<0.01	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	----	0.07	3.79	0.04	<0.01	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 1A	MD 1B	MD 2A	MD 2B	MD 2C
Sampling date / time				24-May-2022 13:10	24-May-2022 13:13	24-May-2022 12:05	24-May-2022 12:10	24-May-2022 12:15	
Compound	CAS Number	LOR	Unit	EW2202385-001	EW2202385-002	EW2202385-003	EW2202385-004	EW2202385-005	
				Result	Result	Result	Result	Result	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	----	0.07	3.98	0.04	<0.01	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	----	6.42	174	94.5	329	
∅ Total Cations	----	0.01	meq/L	----	6.32	----	----	----	
∅ Total Cations	----	0.01	meq/L	----	----	148	86.9	342	
∅ Ionic Balance	----	0.01	%	----	0.83	----	----	----	
∅ Ionic Balance	----	0.01	%	----	----	7.81	4.20	1.96	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	DESTROYED	----	----	----	----	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	----	6	86	51	34	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	----	6	95	51	33	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	----	1.24	1.50	1.15	1.02	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	----	13.3	16.0	12.1	11.8	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	----	<0.05	<0.05	<0.05	<0.05	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	----	1.07	0.24	0.46	0.56	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4A	MD 4B	MD 4C	MD 6A	MD 6B
Sampling date / time				24-May-2022 11:30	24-May-2022 11:40	24-May-2022 11:45	24-May-2022 12:40	24-May-2022 12:45	
Compound	CAS Number	LOR	Unit	EW2202385-006	EW2202385-007	EW2202385-008	EW2202385-009	EW2202385-010	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.6	7.3	7.2	7.6	6.9	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	781	3420	16200	2690	1820	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	0.4	2.2	11.4	1.6	1.0	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	17.2	17.2	16.8	19.2	19.8	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	457	964	896	996	761	
Total Alkalinity as CaCO3	----	1	mg/L	457	964	896	996	761	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<10	90	681	<10	108	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	39	699	5530	360	158	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	63	110	278	102	172	
Magnesium	7439-95-4	1	mg/L	54	83	387	41	52	
Sodium	7440-23-5	1	mg/L	51	497	3040	440	136	
Potassium	7440-09-7	1	mg/L	22	84	161	138	49	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.076	0.035	0.083	0.032	0.122	
Iron	7439-89-6	0.05	mg/L	0.48	0.61	0.96	1.41	0.24	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.7	0.6	0.8	1.9	0.5	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	0.32	42.6	16.0	3.60	19.4	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	0.01	<0.01	<0.01	<0.10	0.01	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	0.01	0.02	1.81	0.17	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4A	MD 4B	MD 4C	MD 6A	MD 6B
Sampling date / time				24-May-2022 11:30	24-May-2022 11:40	24-May-2022 11:45	24-May-2022 12:40	24-May-2022 12:45	
Compound	CAS Number	LOR	Unit	EW2202385-006	EW2202385-007	EW2202385-008	EW2202385-009	EW2202385-010	
				Result	Result	Result	Result	Result	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.01	0.02	1.81	0.18	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	10.2	40.8	188	30.0	21.9	
∅ Total Cations	----	0.01	meq/L	10.4	36.1	182	31.1	20.0	
∅ Ionic Balance	----	0.01	%	0.67	6.19	1.62	1.76	4.48	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	26	59	42	204	44	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	31	58	42	211	45	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	1.59	2.08	1.35	2.64	1.14	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	16.0	21.2	14.5	28.1	12.2	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	1.70	0.85	0.86	0.96	1.02	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 6C	MD 9A	MD 9B	MD 9C	MD 10A
Sampling date / time				24-May-2022 12:50	24-May-2022 10:53	24-May-2022 10:58	24-May-2022 11:05	24-May-2022 10:30	
Compound	CAS Number	LOR	Unit	EW2202385-011	EW2202385-012	EW2202385-013	EW2202385-014	EW2202385-015	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.4	6.8	7.0	7.1	6.8	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	22200	1200	3090	3150	29400	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	15.5	0.7	1.8	1.9	21.2	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	18.5	17.7	19.0	18.8	18.2	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	424	206	1030	1060	570	
Total Alkalinity as CaCO3	----	1	mg/L	424	206	1030	1060	570	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1040	48	21	<10	1260	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	7410	292	539	544	10200	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	365	19	169	155	660	
Magnesium	7439-95-4	1	mg/L	507	20	74	73	747	
Sodium	7440-23-5	1	mg/L	4040	257	322	288	5260	
Potassium	7440-09-7	1	mg/L	140	21	93	105	120	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.073	0.030	0.190	0.136	0.684	
Iron	7439-89-6	0.05	mg/L	15.3	0.36	2.35	2.42	1.54	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.4	0.2	0.6	0.5	0.6	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	19.4	1.49	55.4	84.2	1.05	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.10	<0.01	<0.01	0.04	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.01	<0.10	0.08	<0.01	<0.01	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 6C	MD 9A	MD 9B	MD 9C	MD 10A
Sampling date / time				24-May-2022 12:50	24-May-2022 10:53	24-May-2022 10:58	24-May-2022 11:05	24-May-2022 10:30	
Compound	CAS Number	LOR	Unit	EW2202385-011	EW2202385-012	EW2202385-013	EW2202385-014	EW2202385-015	
				Result	Result	Result	Result	Result	
<b>EP059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	<0.10	0.08	<0.01	<0.01	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	239	13.4	36.2	36.5	325	
∅ Total Cations	----	0.01	meq/L	----	----	----	35.0	----	
∅ Total Cations	----	0.01	meq/L	239	14.3	30.9	----	326	
∅ Ionic Balance	----	0.01	%	----	----	----	2.20	----	
∅ Ionic Balance	----	0.01	%	0.02	3.46	7.91	----	0.14	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	20	359	58	67	66	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	21	394	57	68	67	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	1.29	1.26	1.05	1.20	1.75	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	14.7	13.0	11.2	12.6	20.6	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	1.17	0.38	0.60	0.59	0.46	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 10B	Rocklow Down	Rocklow Middle	Rocklow Up	BLANK
Sampling date / time				24-May-2022 10:40	24-May-2022 09:30	24-May-2022 10:10	24-May-2022 09:55	24-May-2022 08:00	
Compound	CAS Number	LOR	Unit	EW2202385-016	EW2202385-017	EW2202385-018	EW2202385-019	EW2202385-020	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.0	7.4	7.3	7.1	----	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	1520	666	610	254	----	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	0.8	0.4	0.3	<0.2	----	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	20.4	15.0	15.0	14.5	----	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	611	86	82	60	----	
Total Alkalinity as CaCO3	----	1	mg/L	611	86	82	60	----	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<10	45	42	15	----	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	156	180	159	53	----	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	72	----	----	----	----	
Magnesium	7439-95-4	1	mg/L	28	----	----	----	----	
Sodium	7440-23-5	1	mg/L	92	----	----	----	----	
Potassium	7440-09-7	1	mg/L	66	----	----	----	----	
<b>ED093T: Total Major Cations</b>									
Calcium	7440-70-2	1	mg/L	----	23	19	11	----	
Magnesium	7439-95-4	1	mg/L	----	16	15	7	----	
Sodium	7440-23-5	1	mg/L	----	101	90	32	----	
Potassium	7440-09-7	1	mg/L	----	6	6	4	----	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.274	----	----	----	<0.001	
Iron	7439-89-6	0.05	mg/L	0.56	----	----	----	<0.05	
<b>EG020T: Total Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	----	0.048	0.043	0.030	----	
Iron	7439-89-6	0.05	mg/L	----	1.07	0.96	1.38	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 10B	Rocklow Down	Rocklow Middle	Rocklow Up	BLANK
Sampling date / time				24-May-2022 10:40	24-May-2022 09:30	24-May-2022 10:10	24-May-2022 09:55	24-May-2022 08:00	
Compound	CAS Number	LOR	Unit	EW2202385-016	EW2202385-017	EW2202385-018	EW2202385-019	EW2202385-020	
				Result	Result	Result	Result	Result	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.9	0.1	0.1	<0.1	----	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	65.0	0.28	0.18	0.08	----	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.10	0.02	0.02	<0.01	----	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	<0.10	0.59	0.57	0.34	----	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.10	0.61	0.59	0.34	----	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	16.6	----	----	----	----	
∅ Total Cations	----	0.01	meq/L	16.2	----	----	----	----	
∅ Ionic Balance	----	0.01	%	1.19	----	----	----	----	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	55	9	10	10	<1	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	53	10	10	10	----	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	1.60	8.10	8.40	5.95	----	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	17.3	78.4	81.5	57.1	----	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	----	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	0.59	----	----	----	----	



### ***Inter-Laboratory Testing***

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) ED041G: Sulfate (Turbidimetric) as SO<sub>4</sub> 2- by DA

(WATER) EP002: Dissolved Organic Carbon (DOC)

(WATER) EP005: Total Organic Carbon (TOC)

(WATER) EP035G: Total Phenol by Discrete Analyser

(WATER) EK058G: Nitrate as N by Discrete Analyser

(WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NO<sub>x</sub>) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser

(WATER) EG020F: Dissolved Metals by ICP-MS

(WATER) ED093F: Dissolved Major Cations

(WATER) EN055: Ionic Balance

(WATER) ED045G: Chloride by Discrete Analyser

(WATER) ED037P: Alkalinity by PC Titrator

(WATER) EK040P: Fluoride by PC Titrator

(WATER) EG020T: Total Metals by ICP-MS

(WATER) ED093T: Total Major Cations