

CERTIFICATE OF ANALYSIS

Work Order : **EW2300832**
Client : **KIAMA COUNCIL**
Contact : **MS JULIE MILEVSKI**
Address : **11 MANNING STREET**
 KIAMA NSW, AUSTRALIA 2533
Telephone : **+61 02 4232 0557**
Project : **Minnamurra Landfill**
Order number : **141275**
C-O-C number : **----**
Sampler : **Robert DaLio**
Site : **Minnamurra Landfill**
Quote number : **WO/009/21**
No. of samples received : **20**
No. of samples analysed : **20**

Page : 1 of 11
Laboratory : Environmental Division NSW South Coast
Contact : Aneta Prosaroski
Address : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia

Telephone : 02 42253125
Date Samples Received : 23-Feb-2023 14:00
Date Analysis Commenced : 23-Feb-2023
Issue Date : 06-Mar-2023 13:39



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	Environmental Services Representative	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 on a few samples due to sample matrix.
- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H+ to the Cations and Nitrate, SiO₂ and Fluoride to the Anions.
- EK057G, EK059G: LOR raised for NO_x and Nitrite on sample no:3 due to sample matrix.
- EK057G: LOR raised for Nitrite due to sample matrix sample #3,12 and 16
- ED041G: LOR raised for Sulfate due to sample matrix samples #12 and #16
- EK059G: LOR raised for NO_x due to sample matrix samples #12
- EK059G: LOR raised for NO_x due to sample matrix samples #16
- 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.
- 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				23-Feb-2023 00:00	23-Feb-2023 09:20	23-Feb-2023 12:10	23-Feb-2023 12:16	23-Feb-2023 12:28	
Compound	CAS Number	LOR	Unit	EW2300832-001	EW2300832-002	EW2300832-003	EW2300832-004	EW2300832-005	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	----	----	7.1	7.4	7.2	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	----	15500	10000	30900	
EA020FD: Field Salinity									
Salinity	----	0.2	g/L	----	----	10.4	6.8	23.4	
EA116: Temperature									
Temperature	----	0.5	°C	----	----	18.9	20.0	16.6	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	----	----	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	----	----	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	----	----	642	914	767	
Total Alkalinity as CaCO3	----	1	mg/L	----	----	642	914	767	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	----	----	701	441	1760	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	----	----	5780	3590	11900	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	----	----	184	197	340	
Magnesium	7439-95-4	1	mg/L	----	----	325	229	757	
Sodium	7440-23-5	1	mg/L	----	----	2930	1820	6270	
Potassium	7440-09-7	1	mg/L	----	----	123	110	264	
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L	----	----	0.143	0.033	0.099	
Iron	7439-89-6	0.05	mg/L	----	----	3.86	0.41	1.20	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	----	----	1.2	0.8	0.7	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	----	----	0.09	18.0	6.71	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	----	----	<0.10	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	----	----	<0.10	<0.01	<0.01	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 1A	MD 1B	MD 2A	MD 2B	MD 2C
Sampling date / time				23-Feb-2023 00:00	23-Feb-2023 09:20	23-Feb-2023 12:10	23-Feb-2023 12:16	23-Feb-2023 12:28	
Compound	CAS Number	LOR	Unit	EW2300832-001	EW2300832-002	EW2300832-003	EW2300832-004	EW2300832-005	
				Result	Result	Result	Result	Result	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	----	----	<0.10	<0.01	<0.01	
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L	----	----	190	129	388	
∅ Total Cations	----	0.01	meq/L	----	----	166	111	359	
∅ Ionic Balance	----	0.01	%	----	----	6.71	7.54	3.87	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	DESTROYED	NO ACCESS	----	----	----	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	----	----	48	41	31	
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L	----	----	47	41	30	
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L	----	----	2.29	1.82	3.05	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	----	----	25.9	19.3	35.5	
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L	----	----	<0.05	<0.05	<0.05	
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m	----	----	0.25	0.24	0.28	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4A	MD 4B	MD 4C	MD 6A	MD 6B
Sampling date / time				23-Feb-2023 11:30	23-Feb-2023 11:40	23-Feb-2023 11:53	23-Feb-2023 12:48	23-Feb-2023 12:57	
Compound	CAS Number	LOR	Unit	EW2300832-006	EW2300832-007	EW2300832-008	EW2300832-009	EW2300832-010	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	7.0	7.3	7.1	7.4	7.1	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	1580	2520	21800	1830	1400	
EA020FD: Field Salinity									
Salinity	----	0.2	g/L	0.9	1.6	15.8	1.0	0.8	
EA116: Temperature									
Temperature	----	0.5	°C	18.4	16.7	16.7	19.6	18.9	
ED037P: Alkalinity by PC Titrator									
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	624	1020	912	870	696	
Total Alkalinity as CaCO3	----	1	mg/L	624	1020	912	870	696	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	139	126	1080	<10	37	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	196	385	8430	143	115	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	119	119	314	68	144	
Magnesium	7439-95-4	1	mg/L	69	79	525	34	46	
Sodium	7440-23-5	1	mg/L	154	307	4320	273	86	
Potassium	7440-09-7	1	mg/L	37	76	201	124	40	
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L	0.061	0.033	0.103	0.036	0.100	
Iron	7439-89-6	0.05	mg/L	0.36	0.60	1.11	0.76	0.20	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.5	0.5	0.9	1.2	0.4	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	5.42	58.2	19.6	7.27	24.5	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02	<0.01	<0.01	0.04	<0.01	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4A	MD 4B	MD 4C	MD 6A	MD 6B
Sampling date / time				23-Feb-2023 11:30	23-Feb-2023 11:40	23-Feb-2023 11:53	23-Feb-2023 12:48	23-Feb-2023 12:57	
Compound	CAS Number	LOR	Unit	EW2300832-006	EW2300832-007	EW2300832-008	EW2300832-009	EW2300832-010	
				Result	Result	Result	Result	Result	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.03	<0.01	<0.01	0.04	<0.01	
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L	20.9	33.9	278	21.4	17.9	
∅ Total Cations	----	0.01	meq/L	19.3	27.7	252	21.2	15.7	
∅ Ionic Balance	----	0.01	%	4.06	9.94	5.01	0.42	6.49	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	32	47	33	64	33	
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L	29	46	38	67	30	
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L	1.59	1.56	1.31	2.46	2.38	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	16.8	16.1	14.6	26.6	25.3	
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m	1.67	0.82	0.80	0.94	0.91	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 6C	MD 9A	MD 9B	MD 9C	MD 10A
Sampling date / time				23-Feb-2023 13:06	23-Feb-2023 10:20	23-Feb-2023 10:39	23-Feb-2023 10:55	23-Feb-2023 09:55	
Compound	CAS Number	LOR	Unit	EW2300832-011	EW2300832-012	EW2300832-013	EW2300832-014	EW2300832-015	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	7.5	6.7	7.0	7.0	6.3	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	20000	952	2650	2640	38200	
EA020FD: Field Salinity									
Salinity	----	0.2	g/L	13.7	0.5	1.6	1.6	26.2	
EA116: Temperature									
Temperature	----	0.5	°C	18.9	19.5	18.4	18.1	21.5	
ED037P: Alkalinity by PC Titrator									
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	423	340	1000	1060	363	
Total Alkalinity as CaCO3	----	1	mg/L	423	340	1000	1060	363	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1040	<100	<10	<10	2110	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	7280	138	484	447	13400	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	324	14	157	150	916	
Magnesium	7439-95-4	1	mg/L	459	16	76	73	1060	
Sodium	7440-23-5	1	mg/L	3780	217	283	270	6380	
Potassium	7440-09-7	1	mg/L	122	16	75	84	172	
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L	0.058	0.019	0.186	0.157	1.50	
Iron	7439-89-6	0.05	mg/L	12.1	0.12	2.42	3.64	16.6	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.4	0.2	0.6	0.5	0.4	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	18.4	2.44	42.7	63.0	0.90	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.10	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.10	<0.01	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				23-Feb-2023 13:06	23-Feb-2023 10:20	23-Feb-2023 10:39	23-Feb-2023 10:55	23-Feb-2023 09:55	
Compound	CAS Number	LOR	Unit	EW2300832-011	EW2300832-012	EW2300832-013	EW2300832-014	EW2300832-015	
				Result	Result	Result	Result	Result	
EPK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.10	<0.01	0.01	<0.01	
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L	235	10.7	33.6	33.8	429	
∅ Total Cations	----	0.01	meq/L	----	----	----	31.9	----	
∅ Total Cations	----	0.01	meq/L	221	11.9	28.3	----	415	
∅ Ionic Balance	----	0.01	%	----	----	----	2.93	----	
∅ Ionic Balance	----	0.01	%	3.06	5.22	8.58	----	1.70	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	16	196	53	58	37	
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L	14	206	54	62	40	
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L	1.35	2.08	1.00	1.51	2.03	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	15.5	22.4	10.6	15.9	26.6	
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05	
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m	0.98	0.33	0.68	0.62	0.36	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 10B	Rocklow Down	Rocklow Middle	Rocklow Up	BLANK
Sampling date / time				23-Feb-2023 10:10	23-Feb-2023 08:50	23-Feb-2023 09:30	23-Feb-2023 09:10	23-Feb-2023 09:00	
Compound	CAS Number	LOR	Unit	EW2300832-016	EW2300832-017	EW2300832-018	EW2300832-019	EW2300832-020	
				Result	Result	Result	Result	Result	
EA005FD: Field pH									
pH	----	0.1	pH Unit	7.0	----	7.2	7.1	----	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	1370	----	3140	613	----	
EA020FD: Field Salinity									
Salinity	----	0.2	g/L	0.8	----	1.8	0.3	----	
EA116: Temperature									
Temperature	----	0.5	°C	21.0	----	19.5	19.5	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	----	<1	<1	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	----	<1	<1	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	596	----	121	98	----	
Total Alkalinity as CaCO3	----	1	mg/L	596	----	121	98	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<10	----	162	39	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	121	----	1010	149	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	64	----	----	----	----	
Magnesium	7439-95-4	1	mg/L	32	----	----	----	----	
Sodium	7440-23-5	1	mg/L	86	----	----	----	----	
Potassium	7440-09-7	1	mg/L	54	----	----	----	----	
ED093T: Total Major Cations									
Calcium	7440-70-2	1	mg/L	----	----	42	18	----	
Magnesium	7439-95-4	1	mg/L	----	----	68	14	----	
Sodium	7440-23-5	1	mg/L	----	----	548	101	----	
Potassium	7440-09-7	1	mg/L	----	----	23	6	----	
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L	0.282	----	----	----	<0.001	
Iron	7439-89-6	0.05	mg/L	0.56	----	----	----	<0.05	
EG020T: Total Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L	----	----	0.084	0.088	----	
Iron	7439-89-6	0.05	mg/L	----	----	1.38	1.85	----	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 10B	Rocklow Down	Rocklow Middle	Rocklow Up	BLANK
Sampling date / time					23-Feb-2023 10:10	23-Feb-2023 08:50	23-Feb-2023 09:30	23-Feb-2023 09:10	23-Feb-2023 09:00
Compound	CAS Number	LOR	Unit		EW2300832-016	EW2300832-017	EW2300832-018	EW2300832-019	EW2300832-020
					Result	Result	Result	Result	Result
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		0.9	----	0.3	0.2	----
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		60.5	----	0.65	0.10	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.10	----	0.02	<0.01	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.10	----	0.04	0.01	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.10	----	0.06	0.01	----
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		15.3	----	----	----	----
∅ Total Cations	----	0.01	meq/L		15.3	----	----	----	----
∅ Ionic Balance	----	0.01	%		0.20	----	----	----	----
EN67 PK: Field Tests									
Field Observations	----	0.01	--		----	NO ACCESS	----	----	----
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		38	----	8	8	<1
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L		41	----	8	8	----
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L		0.99	----	6.61	5.83	----
Dissolved Oxygen - % Saturation	----	0.1	% saturation		10.9	----	72.2	62.9	----
EP035SF: Total Phenol by Segmented Flow Analyser									
Phenols (Total)	----	0.05	mg/L		<0.05	----	<0.05	<0.05	----
FWI-EN/001: Groundwater Sampling - Depth									
Depth	----	0.01	m		0.69	----	----	----	----



Inter-Laboratory Testing

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

(WATER) EP002: Dissolved Organic Carbon (DOC)

(WATER) EP005: Total Organic Carbon (TOC)

(WATER) EK058G: Nitrate as N by Discrete Analyser

(WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) 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) ED041G: Sulfate (Turbidimetric) as SO₄²⁻ by DA

(WATER) EP035SF: Total Phenol by Segmented Flow Analyser

(WATER) EG020T: Total Metals by ICP-MS

(WATER) ED093T: Total Major Cations