

## CERTIFICATE OF ANALYSIS

**Work Order** : **EW2100386**  
**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/029/19**  
**No. of samples received** : **22**  
**No. of samples analysed** : **20**

**Page** : 1 of 11  
**Laboratory** : Environmental Division NSW South Coast  
**Contact** : Glenn Davies  
**Address** : 1/19 Ralph Black Dr, North Wollongong 2500  
 4/13 Geary Pl, North Nowra 2541  
 Australia NSW Australia

**Telephone** : 02 42253125  
**Date Samples Received** : 01-Feb-2021 14:25  
**Date Analysis Commenced** : 01-Feb-2021  
**Issue Date** : 08-Feb-2021 16:48



Accreditation No. 825  
 Accredited for compliance with  
 ISO/IEC 17025 - Testing

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>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Dian Dao	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Ivan Taylor	Analyst	Sydney Inorganics, Smithfield, NSW
Robert DaLio	Sampler	Laboratory - Wollongong, 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 Contact 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.**
- EK057G/EK058G/EK059G: LOR raised for Nitrite, Nitrate and NOx on sample 12 due to sample matrix.
- 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.
- 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 EA016 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 1B	MD 2A	MD 2B	MD 2C	MD 4B
Sampling date / time				01-Feb-2021 11:50	01-Feb-2021 10:40	01-Feb-2021 10:45	01-Feb-2021 10:50	01-Feb-2021 10:10	
Compound	CAS Number	LOR	Unit	EW2100386-002	EW2100386-003	EW2100386-004	EW2100386-005	EW2100386-007	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.7	7.2	6.9	7.0	7.0	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	613	16000	30700	48600	19300	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	0.3	45.7	22.1	36.9	13.1	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	21.8	20.3	18.5	18.5	19.0	
<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	217	998	802	611	902	
Total Alkalinity as CaCO3	----	1	mg/L	217	998	802	611	902	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	17	524	1380	2120	618	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	47	4490	9810	16800	5620	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	59	202	426	492	434	
Magnesium	7439-95-4	1	mg/L	10	342	672	1110	383	
Sodium	7440-23-5	1	mg/L	36	2700	5360	8960	3010	
Potassium	7440-09-7	1	mg/L	14	161	243	324	170	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.050	0.049	0.110	0.152	0.117	
Iron	7439-89-6	0.05	mg/L	0.46	1.47	1.18	1.70	1.96	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.2	0.9	0.6	0.6	0.5	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	11.8	15.1	11.6	5.25	44.5	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.03	<0.01	<0.01	<0.01	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.30	0.23	0.08	0.08	0.04	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 1B	MD 2A	MD 2B	MD 2C	MD 4B
Sampling date / time				01-Feb-2021 11:50	01-Feb-2021 10:40	01-Feb-2021 10:45	01-Feb-2021 10:50	01-Feb-2021 10:10	
Compound	CAS Number	LOR	Unit	EW2100386-002	EW2100386-003	EW2100386-004	EW2100386-005	EW2100386-007	
				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	0.30	0.26	0.08	0.08	0.04	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	6.02	158	321	530	189	
∅ Total Cations	----	0.01	meq/L	5.69	160	316	514	188	
∅ Ionic Balance	----	0.01	%	2.77	0.72	0.87	1.56	0.26	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	6	61	29	21	33	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	7	62	33	20	37	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	1.26	1.40	1.10	1.53	1.15	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	14.4	15.4	11.6	16.1	12.3	
<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	0.37	0.36	0.63	0.65	1.08	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4C	MD 6A	MD 6B	MD 6C	MD 9A
Sampling date / time				01-Feb-2021 10:20	01-Feb-2021 11:15	01-Feb-2021 11:20	01-Feb-2021 11:30	01-Feb-2021 09:20	
Compound	CAS Number	LOR	Unit	EW2100386-008	EW2100386-009	EW2100386-010	EW2100386-011	EW2100386-012	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	6.9	7.2	7.1	7.3	6.4	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	49500	4690	1530	35300	6110	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	38.3	2.7	0.8	24.9	3.6	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	17.8	21.3	20.7	20.0	21.4	
<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	723	900	680	390	213	
Total Alkalinity as CaCO3	----	1	mg/L	723	900	680	390	213	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	2130	428	44	1570	169	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	15800	874	90	11500	1920	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	522	265	145	419	51	
Magnesium	7439-95-4	1	mg/L	1120	76	43	736	95	
Sodium	7440-23-5	1	mg/L	9020	561	89	5950	972	
Potassium	7440-09-7	1	mg/L	319	105	39	226	60	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.144	0.068	0.106	0.070	0.026	
Iron	7439-89-6	0.05	mg/L	1.67	1.17	0.22	16.1	0.18	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.8	0.7	0.4	0.4	<0.1	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	2.58	33.0	27.1	43.4	7.34	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.15	<0.01	<0.01	<0.10	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.07	1.32	0.07	0.08	<0.10	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 4C	MD 6A	MD 6B	MD 6C	MD 9A
Sampling date / time				01-Feb-2021 10:20	01-Feb-2021 11:15	01-Feb-2021 11:20	01-Feb-2021 11:30	01-Feb-2021 09:20	
Compound	CAS Number	LOR	Unit	EW2100386-008	EW2100386-009	EW2100386-010	EW2100386-011	EW2100386-012	
				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	1.47	0.07	0.08	<0.10	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	504	51.5	17.0	365	61.9	
∅ Total Cations	----	0.01	meq/L	519	46.6	15.6	346	54.2	
∅ Ionic Balance	----	0.01	%	1.39	5.08	4.28	2.64	6.68	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	22	60	24	9	98	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	22	58	23	13	97	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	2.24	2.11	1.95	2.01	1.18	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	23.6	23.6	21.6	21.8	13.5	
<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	1.10	1.10	1.11	1.15	0.5	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 9B	MD 9C	MD 10A	MD 10B	Rocklow Down
Sampling date / time				01-Feb-2021 09:25	01-Feb-2021 09:35	01-Feb-2021 08:55	01-Feb-2021 09:00	01-Feb-2021 07:50	
Compound	CAS Number	LOR	Unit	EW2100386-013	EW2100386-014	EW2100386-015	EW2100386-016	EW2100386-017	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.0	7.0	6.8	7.1	7.3	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	3760	10600	34000	1880	14700	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	2.2	6.8	22.4	1.0	9.2	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	21.1	19.4	22.7	21.2	21.4	
<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	1080	1030	479	683	174	
Total Alkalinity as CaCO3	----	1	mg/L	1080	1030	479	683	174	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	36	221	1570	<1	539	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	636	2830	10800	201	4260	
<b>ED093F: Dissolved Major Cations</b>									
Calcium	7440-70-2	1	mg/L	203	247	747	102	----	
Magnesium	7439-95-4	1	mg/L	86	163	698	32	----	
Sodium	7440-23-5	1	mg/L	315	1530	5450	101	----	
Potassium	7440-09-7	1	mg/L	115	139	147	69	----	
<b>ED093T: Total Major Cations</b>									
Calcium	7440-70-2	1	mg/L	----	----	----	----	136	
Magnesium	7439-95-4	1	mg/L	----	----	----	----	303	
Sodium	7440-23-5	1	mg/L	----	----	----	----	2480	
Potassium	7440-09-7	1	mg/L	----	----	----	----	94	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.223	0.142	0.408	0.321	----	
Iron	7439-89-6	0.05	mg/L	3.06	2.94	2.45	0.72	----	
<b>EG020T: Total Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	----	----	----	----	0.102	
Iron	7439-89-6	0.05	mg/L	----	----	----	----	0.55	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MD 9B	MD 9C	MD 10A	MD 10B	Rocklow Down
Sampling date / time				01-Feb-2021 09:25	01-Feb-2021 09:35	01-Feb-2021 08:55	01-Feb-2021 09:00	01-Feb-2021 07:50	
Compound	CAS Number	LOR	Unit	EW2100386-013	EW2100386-014	EW2100386-015	EW2100386-016	EW2100386-017	
				Result	Result	Result	Result	Result	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.6	0.5	0.6	0.8	0.5	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	79.3	92.9	1.03	77.0	0.94	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.03	<0.01	<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	0.01	0.02	0.09	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.01	0.04	0.02	0.09	
<b>EN055: Ionic Balance</b>									
∅ Total Anions	----	0.01	meq/L	40.3	105	347	19.3	----	
∅ Total Cations	----	0.01	meq/L	----	----	----	19.4	----	
∅ Total Cations	----	0.01	meq/L	33.8	95.8	336	----	----	
∅ Ionic Balance	----	0.01	%	----	----	----	0.13	----	
∅ Ionic Balance	----	0.01	%	8.66	4.56	1.66	----	----	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	26	45	58	41	10	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	38	44	61	37	10	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	0.51	0.41	2.65	0.62	6.04	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	5.6	4.4	22.7	7.0	68.4	
<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	0.82	0.62	0.5	0.76	----	





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Rocklow Middle	Rocklow Up	BLANK	MD 1A	MD 4A
Sampling date / time				01-Feb-2021 08:45	01-Feb-2021 08:20	01-Feb-2021 07:55	01-Feb-2021 00:00	01-Feb-2021 00:00	
Compound	CAS Number	LOR	Unit	EW2100386-018	EW2100386-019	EW2100386-020	EW2100386-021	EW2100386-022	
				Result	Result	Result	Result	Result	
<b>EA005FD: Field pH</b>									
pH	----	0.1	pH Unit	7.0	7.3	----	----	----	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	24600	4420	----	----	----	
<b>EA020FD: Field Salinity</b>									
Salinity	----	0.2	g/L	16.2	2.5	----	----	----	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	21.3	22.1	----	----	----	
<b>ED037P: Alkalinity by PC Titrator</b>									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	180	150	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	180	150	----	----	----	
<b>ED041G: Sulfate (Turbidimetric) as SO4 2- by DA</b>									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	866	151	----	----	----	
<b>ED045G: Chloride by Discrete Analyser</b>									
Chloride	16887-00-6	1	mg/L	7460	1280	----	----	----	
<b>ED093T: Total Major Cations</b>									
Calcium	7440-70-2	1	mg/L	202	48	----	----	----	
Magnesium	7439-95-4	1	mg/L	521	87	----	----	----	
Sodium	7440-23-5	1	mg/L	4360	673	----	----	----	
Potassium	7440-09-7	1	mg/L	161	28	----	----	----	
<b>EG020F: Dissolved Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	----	----	<0.001	----	----	
Iron	7439-89-6	0.05	mg/L	----	----	<0.05	----	----	
<b>EG020T: Total Metals by ICP-MS</b>									
Manganese	7439-96-5	0.001	mg/L	0.094	0.297	----	----	----	
Iron	7439-89-6	0.05	mg/L	0.44	1.63	----	----	----	
<b>EK040P: Fluoride by PC Titrator</b>									
Fluoride	16984-48-8	0.1	mg/L	0.6	0.3	----	----	----	
<b>EK055G: Ammonia as N by Discrete Analyser</b>									
Ammonia as N	7664-41-7	0.01	mg/L	1.46	0.37	----	----	----	
<b>EK057G: Nitrite as N by Discrete Analyser</b>									



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Rocklow Middle	Rocklow Up	BLANK	MD 1A	MD 4A
Sampling date / time				01-Feb-2021 08:45	01-Feb-2021 08:20	01-Feb-2021 07:55	01-Feb-2021 00:00	01-Feb-2021 00:00	
Compound	CAS Number	LOR	Unit	EW2100386-018	EW2100386-019	EW2100386-020	EW2100386-021	EW2100386-022	
				Result	Result	Result	Result	Result	
<b>EK057G: Nitrite as N by Discrete Analyser - Continued</b>									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	----	----	----	
<b>EK058G: Nitrate as N by Discrete Analyser</b>									
Nitrate as N	14797-55-8	0.01	mg/L	0.10	0.05	----	----	----	
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>									
Nitrite + Nitrate as N	----	0.01	mg/L	0.10	0.05	----	----	----	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	----	----	----	DESTROYED	DESTROYED	
<b>EP002: Dissolved Organic Carbon (DOC)</b>									
Dissolved Organic Carbon	----	1	mg/L	8	16	<1	----	----	
<b>EP005: Total Organic Carbon (TOC)</b>									
Total Organic Carbon	----	1	mg/L	8	18	----	----	----	
<b>EP025FD: Field Dissolved Oxygen</b>									
Dissolved Oxygen	----	0.01	mg/L	4.15	6.32	----	----	----	
Dissolved Oxygen - % Saturation	----	0.1	% saturation	46.8	71.8	----	----	----	
<b>EP035G: Total Phenol by Discrete Analyser</b>									
Phenols (Total)	----	0.05	mg/L	<0.05	<0.05	----	----	----	



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

Analysis conducted by ALS Sydney, NATA accreditation no. 825.

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

(WATER) EG020T: Total Metals by ICP-MS

(WATER) ED093T: Total Major Cations