ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EW2003642**	Page	: 1 of 11
Client	: **KIAMA COUNCIL**	Laboratory	: Environmental Division NSW South Coast
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Project	: Gerroa Landfill	Date Samples Received	: 13-Aug-2020 13:50
Order number	: 126590	Date Analysis Commenced	: 13-Aug-2020
C-O-C number	: ----	Issue Date	: 24-Aug-2020 12:29
Sampler	: Duncan McIntosh		
Site	: Gerroa Landfill		
Quote number	: WO/026/19		
No. of samples received	: 21		
No. of samples analysed	: 21		

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. 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.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
Ashesh Patel	Senior Chemist	Sydney Inorganics, Smithfield, NSW
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong, NSW
Ivan Taylor	Analyst	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 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: LOR raised for Nitrite, Nitrate and NOx on sample 2 due to sample matrix.
- ED041G: LOR raised for Sulfate on sample 2 due to sample matrix.
- TDS by method EA-015 may bias high for various samples due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EK055G/EK061G: It has been noted that Ammonia is greater than TKN for sample 6, 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.
- ORP (Oxidation Reduction Potential) performed by ALS Wollongong via in-house method EA075FD 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 accordace with in-house sampling method EN/67.6 Rivers and Streams.
- 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.
- 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)				Client sample ID	MW1D	MW1S	MW3	MW4	MW5
				Client sampling date / time	13-Aug-2020 10:00	13-Aug-2020 10:10	13-Aug-2020 10:40	13-Aug-2020 08:15	13-Aug-2020 10:55
Compound	CAS Number	LOR	Unit		EW2003642-001	EW2003642-002	EW2003642-003	EW2003642-004	EW2003642-005
					Result	Result	Result	Result	Result
EA005FD: Field pH									
pH	----	0.1	pH Unit		7.3	6.5	7.4	7.0	7.6
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm		1580	482	413	807	655
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		812	522	276	420	464
EA075FD: Field Redox Potential									
Redox Potential	----	0.1	mV		-129	-44.6	-132	22.9	-71.2
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		452	70	176	288	155
Total Alkalinity as CaCO3	----	1	mg/L		452	70	176	288	155
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		56	<10	<1	24	32
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		234	111	25	59	86
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		79	24	61	117	82
Magnesium	7439-95-4	1	mg/L		38	8	5	11	8
Sodium	7440-23-5	1	mg/L		116	61	12	25	31
Potassium	7440-09-7	1	mg/L		36	2	3	5	3
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L		0.018	0.013	0.049	0.074	0.004
Iron	7439-89-6	0.05	mg/L		4.26	10.6	3.58	0.70	0.26
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		0.2	0.3	0.2	0.2	0.1
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		27.8	<0.01	0.22	0.04	<0.01
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.10	<0.01	0.41	<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	6.32	<0.01

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	MW1D	MW1S	MW3	MW4	MW5
				Client sampling date / time	13-Aug-2020 10:00	13-Aug-2020 10:10	13-Aug-2020 10:40	13-Aug-2020 08:15	13-Aug-2020 10:55
Compound	CAS Number	LOR	Unit		EW2003642-001	EW2003642-002	EW2003642-003	EW2003642-004	EW2003642-005
					Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	<0.10	<0.01	6.73	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		27.9	4.3	0.5	1.8	0.2
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		27.9	4.3	0.5	8.5	0.2
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.21	0.28	0.12	0.19	0.04
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		16.8	4.53	4.22	7.92	6.19
ø Total Cations	----	0.01	meq/L		15.0	----	----	----	----
ø Total Cations	----	0.01	meq/L		----	4.56	4.05	7.96	6.18
ø Ionic Balance	----	0.01	%		5.61	----	----	----	----
ø Ionic Balance	----	0.01	%		----	0.34	2.02	0.26	0.11
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		19	124	11	5	7
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L		1.11	2.35	1.08	4.80	1.52
QWI-EN 67.11 Sampling of Groundwaters									
Depth	----	0.01	m		2.21	2.24	2.53	3.12	2.28

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	MW6D	MW6S	MW7D	MW7S	MW9
				Client sampling date / time	13-Aug-2020 08:50	13-Aug-2020 09:05	13-Aug-2020 11:15	13-Aug-2020 11:25	13-Aug-2020 13:10
Compound	CAS Number	LOR	Unit		EW2003642-006	EW2003642-007	EW2003642-008	EW2003642-009	EW2003642-010
					Result	Result	Result	Result	Result
EA005FD: Field pH									
pH	----	0.1	pH Unit		7.0	6.7	7.2	7.2	6.7
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm		1950	881	1150	734	9070
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		986	543	596	396	5490
EA075FD: Field Redox Potential									
Redox Potential	----	0.1	mV		-138	-79.9	-137	-24.0	-23.3
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		859	90	486	105	187
Total Alkalinity as CaCO3	----	1	mg/L		859	90	486	105	187
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L		9	26	21	18	363
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		150	214	64	153	2740
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		162	24	101	30	56
Magnesium	7439-95-4	1	mg/L		25	23	16	14	149
Sodium	7440-23-5	1	mg/L		100	102	60	81	1500
Potassium	7440-09-7	1	mg/L		56	2	27	<1	59
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L		0.138	0.005	0.057	0.003	0.010
Iron	7439-89-6	0.05	mg/L		12.8	0.61	3.38	0.22	1.26
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L		0.4	0.3	0.3	0.2	0.4
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		52.4	0.03	18.3	<0.01	0.25
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	0.03	<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	0.14	<0.01	0.02	<0.01

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	MW6D	MW6S	MW7D	MW7S	MW9
				Client sampling date / time	13-Aug-2020 08:50	13-Aug-2020 09:05	13-Aug-2020 11:15	13-Aug-2020 11:25	13-Aug-2020 13:10
Compound	CAS Number	LOR	Unit		EW2003642-006	EW2003642-007	EW2003642-008	EW2003642-009	EW2003642-010
					Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	0.17	<0.01	0.02	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		49.9	1.1	18.3	0.3	3.3
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		49.9	1.3	18.3	0.3	3.3
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		2.85	0.10	0.88	0.04	0.30
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		21.6	8.38	12.0	6.79	88.6
ø Total Cations	----	0.01	meq/L		19.7	----	11.0	----	----
ø Total Cations	----	0.01	meq/L		----	7.58	----	6.17	81.8
ø Ionic Balance	----	0.01	%		4.68	----	4.35	----	----
ø Ionic Balance	----	0.01	%		----	5.00	----	4.75	3.98
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		33	14	14	8	35
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L		1.42	3.51	1.13	2.15	3.59
QWI-EN 67.11 Sampling of Groundwaters									
Depth	----	0.01	m		3.43	3.17	3.18	3.03	1.16

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	MW10	MW11	MW12	MW13	MW14
			Client sampling date / time	13-Aug-2020 13:30	13-Aug-2020 01:30	13-Aug-2020 09:25	13-Aug-2020 09:45	13-Aug-2020 10:25
Compound	CAS Number	LOR	Unit	EW2003642-011	EW2003642-012	EW2003642-013	EW2003642-014	EW2003642-015
				Result	Result	Result	Result	Result
EA005FD: Field pH								
pH	----	0.1	pH Unit	5.3	7.4	7.2	7.3	7.2
EA010FD: Field Conductivity								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	3030	1800	2020	1580	2460
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	1490	908	948	728	1150
EA075FD: Field Redox Potential								
Redox Potential	----	0.1	mV	116	107	-116	-124	-121
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	10	396	635	516	785
Total Alkalinity as CaCO3	----	1	mg/L	10	396	635	516	785
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	138	53	53	70	52
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	817	332	292	179	348
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	14	60	107	78	91
Magnesium	7439-95-4	1	mg/L	44	32	47	47	54
Sodium	7440-23-5	1	mg/L	474	197	142	102	175
Potassium	7440-09-7	1	mg/L	21	43	51	45	77
EG020F: Dissolved Metals by ICP-MS								
Manganese	7439-96-5	0.001	mg/L	<0.001	0.006	0.021	0.015	0.019
Iron	7439-89-6	0.05	mg/L	1.68	0.32	7.82	4.45	7.09
EK040P: Fluoride by PC Titrator								
Fluoride	16984-48-8	0.1	mg/L	<0.1	0.3	0.1	0.2	0.2
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	17.0	36.8	27.8	69.9
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	<0.01	<0.01	<0.01	<0.01	<0.01

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	MW10	MW11	MW12	MW13	MW14
				Client sampling date / time	13-Aug-2020 13:30	13-Aug-2020 01:30	13-Aug-2020 09:25	13-Aug-2020 09:45	13-Aug-2020 10:25
Compound	CAS Number	LOR	Unit		EW2003642-011	EW2003642-012	EW2003642-013	EW2003642-014	EW2003642-015
					Result	Result	Result	Result	Result
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		2.2	19.0	40.1	29.4	70.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		2.2	19.0	40.1	29.4	70.1
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.15	0.16	0.22	0.24	0.22
EN055: Ionic Balance									
ø Total Anions	----	0.01	meq/L		26.1	18.4	22.0	16.8	26.6
ø Total Cations	----	0.01	meq/L		----	----	19.3	15.3	23.6
ø Total Cations	----	0.01	meq/L		25.5	15.3	----	----	----
ø Ionic Balance	----	0.01	%		----	----	6.59	4.68	6.06
ø Ionic Balance	----	0.01	%		1.25	9.16	----	----	----
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		31	25	23	22	34
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L		3.90	2.75	1.52	1.39	1.07
QWI-EN 67.11 Sampling of Groundwaters									
Depth	----	0.01	m		1.39	1.36	1.93	2.16	1.65

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	ML-1	ML-2	ML-3	ML-4	ML-5
			Client sampling date / time	13-Aug-2020 12:20	13-Aug-2020 14:20	13-Aug-2020 12:45	13-Aug-2020 12:30	13-Aug-2020 13:20
Compound	CAS Number	LOR	Unit	EW2003642-016	EW2003642-017	EW2003642-018	EW2003642-019	EW2003642-020
				Result	Result	Result	Result	Result
EA005FD: Field pH								
pH	----	0.1	pH Unit	6.5	6.4	6.4	6.4	6.2
EA010FD: Field Conductivity								
Electrical Conductivity (Non Compensated)	----	1	µS/cm	150	449	110	125	223
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	88	245	82	86	135
EA075FD: Field Redox Potential								
Redox Potential	----	0.1	mV	83.9	144	118	102	104
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	17	15	13	12	13
Total Alkalinity as CaCO3	----	1	mg/L	17	15	13	12	13
ED093T: Total Major Cations								
Calcium	7440-70-2	1	mg/L	4	6	4	4	5
Magnesium	7439-95-4	1	mg/L	3	8	2	3	4
Sodium	7440-23-5	1	mg/L	17	64	12	14	29
Potassium	7440-09-7	1	mg/L	3	5	3	3	3
EG020T: Total Metals by ICP-MS								
Manganese	7439-96-5	0.001	mg/L	0.011	0.012	0.010	0.011	0.011
Iron	7439-89-6	0.05	mg/L	0.54	0.65	0.57	0.62	0.62
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.06	0.02	0.02	0.04
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	0.10	0.10	0.10	0.10	0.10
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.10	0.10	0.10	0.10	0.10
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.7	0.6	0.6	0.7
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	0.7	0.8	0.7	0.7	0.8

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	ML-1	ML-2	ML-3	ML-4	ML-5
				Client sampling date / time	13-Aug-2020 12:20	13-Aug-2020 14:20	13-Aug-2020 12:45	13-Aug-2020 12:30	13-Aug-2020 13:20
Compound	CAS Number	LOR	Unit		EW2003642-016	EW2003642-017	EW2003642-018	EW2003642-019	EW2003642-020
					Result	Result	Result	Result	Result
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**0.10**	**0.09**	**0.10**	**0.09**	**0.11**
EP025FD: Field Dissolved Oxygen									
Dissolved Oxygen	----	0.01	mg/L		**4.91**	**5.08**	**4.87**	**4.90**	**4.80**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	Blank	----	----	----	----
				Client sampling date / time	12-Aug-2020 11:35	----	----	----	----
Compound	CAS Number	LOR	Unit		EW2003642-021	--------	--------	--------	--------
					Result	----	----	----	----
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L		<1	----	----	----	----
Magnesium	7439-95-4	1	mg/L		<1	----	----	----	----
Sodium	7440-23-5	1	mg/L		<1	----	----	----	----
Potassium	7440-09-7	1	mg/L		<1	----	----	----	----
EG020F: Dissolved Metals by ICP-MS									
Manganese	7439-96-5	0.001	mg/L		<0.001	----	----	----	----
Iron	7439-89-6	0.05	mg/L		<0.05	----	----	----	----