

Liquid - Certificate of Analysis - E25-01-1566

Client:	Clarrich Farms Pty Ltd	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	P3, P4, P5 & P5 Liquid Samples	Request ID:	EAL /E25-01-1566
Number of samples:	4	Report ID:	E25-01-1566_EALP3_1
Date samples received:	17 October 2025	Issue date:	30 October 2025

Authorised by:	Matt Pocock
Position:	Technical Team Leader



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Samples arrived 17/10/25

Certificate of Analysis

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Client Sample ID:				P3-CR Upstream	P4-CR Downstream	P5-Effluent D.	P7-Lagoon
Sample Date:				16 October 2025	16 October 2025	16 October 2025	16 October 2025
EAL Sample ID:				E25-01-1566-0001	E25-01-1566-0002	E25-01-1566-0003	E25-01-1566-0004
Parameter	Unit	Method Reference	LOR	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.45	7.49	7.90	7.41
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.235	0.242	7.31	0.165
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	160	165	4974	112
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	70	70	3285	207
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	74	72	455	106
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	25.7	25.7	202	234
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	2.03	1.98	509	47.7
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	15.7	15.3	89.9	17.8
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	8.34	8.27	55.9	15.0
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	42.8	45.8	361	372
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	9.41	< 9	121	12.4
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	4.5	n.a.	3.0	30
Sodium Absorption Ratio	---	** Calculation	---	1.3	1.3	4.1	9.9
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.059	0.053	146	6.37
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.381	0.377	779	36.5
Phosphate	mg/L P	APHA 4500 P-G	<0.005	0.030	0.031	37.6	3.15
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.064	0.047	< 0.005	< 0.005
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	< 0.005	0.060	0.010
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	0.039	0.034	660	28.1
Total Oils and Grease	mg/L	APHA 5520-D (hexane extractable)	<2	< 2	< 2	54.0	2.55
Biochemical Oxygen Demand (BOD ₅)	mg/L O ₂	APHA 5210-B	<1	3.07	1.66	416	26.7
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	40	20	4	<100
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	---	---	2910	---
Total Dissolved Solids	mg/L	** APHA 2540C - Evaporation of filtrate	<1	---	---	2250	---

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- mg/L = ppm
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.