

Certificate of Analysis

Request ID: EAL/E25-00-1759 Report ID: E25-00-1759_EALP3_1 Issue date: 24 March 2025

				Client Sample ID:	LD	TWP
				Sample Date:	17 February 2025	17 February 2025
				Sampled By:	TS	TS
				EAL Sample ID:	E25-00-1759-0001	E25-00-1759-0002
Parameter	Unit	Method Reference	LOR	---	---	---
pH	---	APHA 4500-H+ B	---	8.36	7.97	
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	2.82	1.56	
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	1918	1061	
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	1076	570	
Chemical Oxygen Demand	mg/L	** APHA 5220-D	<1	1000	120	
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	353	175	
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	137	70.4	
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	66.5	117	
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	36.0	35.3	
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	344	198	
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	80.3	96.3	
Arsenic	mg/L	Total Available - APHA 3125 ICPMS	<0.001	0.013	0.007	
Total Nitrogen	mg/L N	Inhouse W4	<0.01	295	12.9	
Total Phosphorus	mg/L P	Inhouse W4	<0.01	5.86	2.15	
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	< 0.005	< 0.005	
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	122	10.3	
Fluoride	mg/L	** Ion Selective Electrode	<0.1	0.67	0.68	
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	240000	350000	
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	148	54.7	
Turbidity	NTU	APHA 2130	<1	180	38	

Notes:

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- 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.
- For conductivity 1 dS/m = 1 mS/cm = 1000 µS/cm.
- mg/L = ppm

Certificate of Analysis

Request ID: EAL/E25-00-1760 Report ID: E25-00-1760_EALP3_2 Issue date: 14 March 2025

				Client Sample ID:	MCS01	MCS02	MCS03	MCS04	MCS05
				Sample Date:	17 February 2025	17 February 2025	17 February 2025	17 February 2025	17 February 2025
				Sampled By:	TS	TS	TS	TS	TS
				EAL Sample ID:	E25-00-1760-0001	E25-00-1760-0002	E25-00-1760-0003	E25-00-1760-0004	E25-00-1760-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.25	7.61	7.52	7.66	7.44	
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.377	0.518	0.471	0.453	0.586	
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	256	352	320	308	398	
Dissolved Oxygen	mg/L	** APHA 4500-O-G (Onsite method preferable)	<1	6.38	6.59	6.36	5.25	5.86	
Temperature	Celsius	** Inhouse W40	---	26.7	27.2	26.4	26.0	27.3	
Redox Potential	mV	Redox	---	238	247	265	253	255	
Turbidity	NTU	APHA 2130	<1	8.9	9.9	14	14	19	
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	7	22	33	16	22	
Biochemical Oxygen Demand (BOD5)	mg/L	APHA 5210-B	<1	2.00	2.70	7.60	5.30	3.30	
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.486	5.43	5.40	4.94	5.64	
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.176	1.03	0.847	0.825	0.873	
Nitrate	mg/L N	APHA 4500 NO3-F	<0.005	0.005	3.75	4.24	6.94	3.76	
Nitrite	mg/L N	APHA 4500 NO2-I	<0.005	< 0.005	0.053	0.037	0.054	0.082	
Ammonia	mg/L N	APHA 4500 NH3-H	<0.005	0.017	0.466	0.227	0.466	0.767	
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	8200	<10	17800	20600	12200	
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	7.83	7.35	6.15	7.56	5.94	
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025	
Benzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
Toluene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
Ethylbenzene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
m/p-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<1	<1	<1	<1	<1	
o-xylene	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
Total Xylenes	µg/L	** Subcontracted SGS Laboratories Australia	---	<1.5	<1.5	<1.5	<1.5	<1.5	
Total BTEX	µg/L	** Subcontracted SGS Laboratories Australia	---	<3	<3	<3	<3	<3	
Napthalene (VOC)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025	
TRH C6-C9	µg/L	** Subcontracted SGS Laboratories Australia	---	<40	<40	<40	<40	<40	
Benzene (F0)	µg/L	** Subcontracted SGS Laboratories Australia	---	<0.5	<0.5	<0.5	<0.5	<0.5	
TRH C6-C10	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50	
TRH C6-C10 minus BTEX (F1)	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50	
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE279025	SE279025	SE279025	SE279025	SE279025	
LLTRH C10-C14	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50	
LLTRH C15-C28	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	120	120	
LLTRH C29-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	<50	<50	<50	<50	<50	
LLTRH >C10-C16	µg/L	** Subcontracted SGS Laboratories Australia	---	60	<50	<50	<50	<50	
LLTRH >C16-C34 (F3)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	120	120	130	
LLTRH >C34-C40 (F4)	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100	

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				EAL Sample ID:	E25-00-1760-0001	E25-00-1760-0002	E25-00-1760-0003	E25-00-1760-0004	E25-00-1760-0005
Parameter	Unit	Method Reference	LOR	---	---	---	---	---	---
TRH Sum C10-C36	µg/L	** Subcontracted SGS Laboratories Australia	---	150	<100	170	170	190	
LLTRH C37-C40	µg/L	** Subcontracted SGS Laboratories Australia	---	<100	<100	<100	<100	<100	

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