

LORIS H HASSALL TRADING PTY LTD

TREATED BRINE EFFLUENT TEST RESULTS 2023-2024



EPA LOCATION ID 1

EPA LICENSE NUMBER: 12765

\*Not Tested (NT) No Sample (NS)

ANALYSIS	LOR	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	HIGH	LOW	AVE
pH - pH Units	-	9.85	9.32	9.24	9.99	9.9	6.97	6.57	6.56	6.44	6.89	6.77	6.71	9.99	6.44	7.93
EC (Electrical Conductivity) - µS/cm	5	235000	236000	238000	223000	214000	225000	212000	234000	303000	172000	235000	237000	303000	172000	230333.33
TKN - N (Total Kjeldahl Nitrogen as N) - mg/L	0.05	400	490	400	710	510	410	400	570	730	350	150	390	730	150	459.17
Total P (Phosphorus) - mg/L	0.01	7.9	11	7.7	7.3	6.2	5.4	7.5	6.9	5.4	1.9	4.5	4.6	11	1.9	6.36
Total Suspended Solids - mg/L	1	110	160	230	330	680	450	830	600	30	6	390	10	830	6	318.83
TDS (Total Dissolved Solids) - mg/L	1	252000	246000	238000	232000	205000	231000	176000	251000	249000	256000	2790000	321000	2790000	176000	453916.67
BOD (Biological Oxygen Demand) - mg/L	2	1600	1700	2500	2700	2900	3100	2800	3800	1300	2300	750	1800	3800	750	2270.83
COD (Chemical Oxygen Demand) - mg/L	2	12200	14500	19300	7200	10200	19500	15600	20100	4700	12600	18500	2100	20100	2100	13041.67
Nitrate - mg/L	0.005	0.05	0.042	0.005	0.005	0.005	0.005	0.005	0.02	0.16	0.005	0.005	0.069	0.16	0.005	0.03
Nitrite N - mg/L	0.005	0.55	0.4	0.061	0.046	0.018	0.005	0.005	0.02	0.16	0.005	0.067	0.005	0.55	0.005	0.11
DEM (Oil & Grease) - mg/L	2	2	2	18	26	15	21	36	4	17	11	23	9	36	2	15.33
Sulphide as S2 - mg/L	0.02	1.93	14.1	5.2	0.94	8.67	0.54	7.44	3.56	0.79	0.41	0.83	1.24	14.1	0.41	3.80
Sulphur as S - mg/L	0.1	370	370	400	370	290	390	290	320	260	320	340	370	400	260	340.83
Sulphite as SO3 2- mg/L	0.5	5	2	2	2	3	2	1	0.5	2	2	2	2	5	0.5	2.13
Chloride - mg/L	2	170000	140000	150000	170000	140000	170000	120000	150000	170000	170000	190000	180000	190000	120000	160000.00
Sodium - mg/L	1	92100	131000	93700	92100	74400	103000	66900	106000	93800	94400	99500	96700	131000	66900	95300.00
Potassium - mg/L	0.2	1510	1010	1140	1040	900	940	780	1310	1080	1160	910	1200	1510	780	1081.67
Calcium - mg/L	0.1	45	63	99	72	46	100	22	30	17	66	83	140	140	17	65.25
Magnesium - mg/L	0.05	81	76	54	81	56	36	25	39	41	56	56	100	100	25	58.42
SAR	0.8	1900	2630	1880	1770	1740	2240	2320	3000	2810	2060	2050	1520	3000	1520	2160.00
Sulphate - mg/L	5	790	860	910	740	670	910	760	860	610	1000	780	1200	1200	610	840.83
Total N (Nitrogen) - mg/L	0.05	400	490	400	710	510	410	400	570	730	350	150	390	730	150	459.17

Items in grey are additional testing not required by EPA licence.