

Licensee's Name: Iluka Resources Limited
Premises: Karra Station, Balranald, NSW 2715
Environment Protection Licence # 20795
NSW EPA Public Registers: [Public registers \(nsw.gov.au\)](http://PublicRegisters.nsw.gov.au)



Pollutant	Unit of measure	Site	Sample point	Sample Date	Value	Required frequency
Alkalinity (Total) as CaCO ₃	mg/kg	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	433	Pre-T3 Trial
Chloride	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	18200	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:17	14.99	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:17	43463	Pre-T3 Trial
Iron (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	2.37	Pre-T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	1570	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:17	6.69	Pre-T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	45	Pre-T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	11000	Pre-T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	3660	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:17	30134.5	Pre-T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	557	Pre-T3 Trial
Sulfide (as S ₂ ⁻)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	23/04/2020 10:15	<0.1	Pre-T3 Trial
Iron (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	1.87	Pre-T3 Trial
Alkalinity (Total) as CaCO ₃	mg/kg	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	387	Pre-T3 Trial
Chloride	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	18000	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 14:56	14.17	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 14:56	45561	Pre-T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	1600	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 14:56	6.8	Pre-T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	48	Pre-T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	11100	Pre-T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	3690	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 14:56	20010.5	Pre-T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	622	Pre-T3 Trial
Sulfide (as S ₂ ⁻)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	23/04/2020 15:00	<0.1	Pre-T3 Trial

Iron (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	1.51	Pre-T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	436	Pre-T3 Trial
Chloride	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	17400	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:07	15.5	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:07	42831	Pre-T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	1510	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:07	6.56	Pre-T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	46	Pre-T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	10500	Pre-T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	3580	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:07	29477.5	Pre-T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	524	Pre-T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	22/04/2020 12:10	<0.1	Pre-T3 Trial
Iron (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	0.7	Pre-T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	436	Pre-T3 Trial
Chloride	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	18500	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	14.03	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	46842	Pre-T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	1640	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	6.78	Pre-T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	48	Pre-T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	11400	Pre-T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	3710	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	33455	Pre-T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	574	Pre-T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	23/04/2020 8:40	<0.1	Pre-T3 Trial
Iron (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	1.4	Pre-T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	428	Pre-T3 Trial
Chloride	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	17000	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	13.17	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	39660	Pre-T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	1540	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	6.59	Pre-T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	47	Pre-T3 Trial

Sodium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	10200	Pre-T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	3750	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	28497.5	Pre-T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	568	Pre-T3 Trial
Sulfide (as S ²⁻)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	21/04/2020 12:30	<0.1	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	25/04/2020 15:12	14.94	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M2D (EPA Point 7)	25/04/2020 15:12	57267	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M2D (EPA Point 7)	25/04/2020 15:12	7.17	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M2D (EPA Point 7)	25/04/2020 15:12	35815	Pre-T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	26/04/2020 8:30	14.98	Pre-T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M4D (EPA Point 8)	26/04/2020 8:30	49693	Pre-T3 Trial
pH (Field)	pH units	Trial Site	UGM-M4D (EPA Point 8)	26/04/2020 8:30	7.13	Pre-T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M4D (EPA Point 8)	26/04/2020 8:30	35314	Pre-T3 Trial

