

**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 <sub>3</sub>	mg/kg	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	422	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	21200	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 15:19	14.81	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 15:29	53927.3	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	1600	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 15:29	6.8	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	56	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	11500	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	4620	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 15:29	35052.8	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	563	Post- T3 Trial
Sulfide (as S <sub>2</sub> <sup>-</sup> )	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 16:00	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	4/02/2021 15:29	2.5	Post- T3 Trial
Alkalinity (Total) as CaCO <sub>3</sub>	mg/kg	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	381	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	20700	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 7:48	13.91	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:02	53201.2	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	1580	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:02	6.97	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	57	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	11300	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	4400	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:02	34580.8	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	606	Post- T3 Trial
Sulfide (as S <sub>2</sub> <sup>-</sup> )	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:15	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	5/02/2021 9:02	3.3	Post- T3 Trial

Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	421	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	18200	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 8:10	15.31	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:08	47392.2	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	1570	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:08	6.66	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	58	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	10800	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	4090	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:08	30804.9	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	535	Post- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:30	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	3/02/2021 9:08	2.8	Post- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	429	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	19600	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 13:24	13.85	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:25	54554.7	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	1630	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:25	6.72	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	56	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	11300	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	4380	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:25	35460.5	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	573	Post- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:35	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	3/02/2021 14:25	3.5	Post- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	421	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	17900	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 10:58	12.97	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 11:50	51462.5	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	1580	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 11:50	6.68	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	56	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	10400	Post- T3 Trial

Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	4250	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 11:50	33450.6	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	597	Post- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M25D (EPA Point 12)	2/02/2021 12:30	<0.1	Post- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	394	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	21200	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 10:00	14.74	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:20	54150.1	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	1590	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:20	6.82	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	54	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	11500	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	4500	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:20	35197.6	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	578	Post- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:30	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	5/02/2021 11:20	3	Post- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	385	Post- T3 Trial
Chloride	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	21400	Post- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 13:57	14.69	Post- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:15	48382.6	Post- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	1600	Post- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:15	6.81	Post- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	55	Post- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	11500	Post- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	4510	Post- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:15	31448.7	Post- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	576	Post- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:40	<0.1	Post- T3 Trial
Iron (Total)	mg/L	Trial Site	UGM-M4D (EPA Point 8)	5/02/2021 14:15	2.3	Post- T3 Trial

