

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)	11/09/2020 9:45	417	During- T3 Trial
Chloride	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	19000	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	2/09/2020 10:08	15.78	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	9/09/2020 8:51	15.3	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:29	15.66	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	17/09/2020 9:52	14.74	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	23/09/2020 9:31	15.56	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M16D (EPA Point 9)	30/09/2020 14:26	16.2	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M16D (EPA Point 9)	5/09/2020 7:49	52688	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:49	55381.9	During- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	1520	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M16D (EPA Point 9)	5/09/2020 7:49	6.7	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:49	6.64	During- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	52	During- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	10800	During- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	3960	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M16D (EPA Point 9)	5/09/2020 7:49	34248.2	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:49	35998.3	During- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	565	During- T3 Trial
Sulfide (as S ₂ -)	mg/L	Trial Site	UGM-M16D (EPA Point 9)	11/09/2020 9:45	<0.1	During- T3 Trial
Alkalinity (Total) as CaCO ₃	mg/kg	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	372	During- T3 Trial
Chloride	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	18300	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	2/09/2020 11:23	15.05	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	9/09/2020 9:40	14.45	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 14:07	14.95	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	17/09/2020 10:13	15.61	During- T3 Trial

Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	23/09/2020 8:26	14.78	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M1D (EPA Point 6)	30/09/2020 11:40	15.86	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M1D (EPA Point 6)	3/09/2020 7:38	52702.7	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M1D (EPA Point 6)	26/09/2020 14:59	48945	During- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	1520	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M1D (EPA Point 6)	3/09/2020 7:38	6.85	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M1D (EPA Point 6)	26/09/2020 14:59	6.88	During- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	55	During- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	10800	During- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	3400	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M1D (EPA Point 6)	3/09/2020 7:38	34256.7	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M1D (EPA Point 6)	26/09/2020 14:59	31815.1	During- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	626	During- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M1D (EPA Point 6)	11/09/2020 15:00	<0.1	During- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	411	During- T3 Trial
Chloride	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	19000	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	2/09/2020 9:06	16.21	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	9/09/2020 8:06	15.79	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 8:40	15.66	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	17/09/2020 9:04	15.86	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	23/09/2020 10:50	15.95	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M23D (EPA Point 10)	30/09/2020 9:46	16.09	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M23D (EPA Point 10)	4/09/2020 8:12	51921.5	During- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	1480	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M23D (EPA Point 10)	4/09/2020 8:12	6.55	During- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	54	During- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	10600	During- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	3010	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M23D (EPA Point 10)	4/09/2020 8:12	33749	During- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	542	During- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M23D (EPA Point 10)	12/09/2020 9:00	0.2	During- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	416	During- T3 Trial
Chloride	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	18800	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	2/09/2020 9:57	14.92	During- T3 Trial

Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	9/09/2020 8:43	14.36	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 7:29	14.33	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	17/09/2020 9:42	15.53	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	23/09/2020 9:45	14.69	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M24D (EPA Point 11)	30/09/2020 14:14	14.89	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M24D (EPA Point 11)	4/09/2020 14:15	53168.6	During- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	1570	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M24D (EPA Point 11)	4/09/2020 14:15	6.53	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:03	6.68	During- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	56	During- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	11200	During- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	3350	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M24D (EPA Point 11)	4/09/2020 14:15	34559.6	During- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	586	During- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M24D (EPA Point 11)	11/09/2020 8:00	0.1	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	2/09/2020 8:15	13.93	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	9/09/2020 7:22	13.42	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	15/09/2020 12:58	13.24	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	17/09/2020 8:31	13.59	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	23/09/2020 11:25	13.53	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M25D (EPA Point 12)	30/09/2020 8:58	13.77	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M25D (EPA Point 12)	3/09/2020 12:16	49782.8	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M25D (EPA Point 12)	15/09/2020 13:13	51395.5	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M25D (EPA Point 12)	3/09/2020 12:16	6.54	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M25D (EPA Point 12)	15/09/2020 13:13	6.55	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M25D (EPA Point 12)	3/09/2020 12:16	32358.8	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M25D (EPA Point 12)	15/09/2020 13:13	33407.1	During- T3 Trial
Alkalinity (Total) as CaCO3	mg/kg	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	385	During- T3 Trial
Chloride	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	19300	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	2/09/2020 6:51	15.89	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	9/09/2020 9:57	15.26	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 14:37	15.29	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	17/09/2020 10:27	15.49	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	23/09/2020 8:47	15.61	During- T3 Trial

Depth (To Water from Top of Casing)	m	Trial Site	UGM-M2D (EPA Point 7)	30/09/2020 12:04	17.14	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M2D (EPA Point 7)	2/09/2020 11:07	54909.5	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M2D (EPA Point 7)	27/09/2020 8:15	55138	During- T3 Trial
Magnesium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	1510	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M2D (EPA Point 7)	2/09/2020 11:07	6.87	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M2D (EPA Point 7)	27/09/2020 8:15	6.68	During- T3 Trial
Potassium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	52	During- T3 Trial
Sodium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	10700	During- T3 Trial
Sulfate (diss.) Turbidimetric	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	3640	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M2D (EPA Point 7)	2/09/2020 11:07	35691.2	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M2D (EPA Point 7)	27/09/2020 8:15	35839.7	During- T3 Trial
Calcium (diss.)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	579	During- T3 Trial
Sulfide (as S2-)	mg/L	Trial Site	UGM-M2D (EPA Point 7)	12/09/2020 15:20	0.1	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	2/09/2020 11:49	15.86	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	9/09/2020 14:31	15.26	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	15/09/2020 14:28	17.36	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	17/09/2020 10:33	15.52	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	23/09/2020 9:03	15.62	During- T3 Trial
Depth (To Water from Top of Casing)	m	Trial Site	UGM-M4D (EPA Point 8)	30/09/2020 12:20	17.22	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M4D (EPA Point 8)	3/09/2020 8:12	52978	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M4D (EPA Point 8)	15/09/2020 14:57	53767	During- T3 Trial
Electrical Conductivity	µS/cm	Trial Site	UGM-M4D (EPA Point 8)	27/09/2020 13:36	54183.8	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M4D (EPA Point 8)	3/09/2020 8:12	6.73	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M4D (EPA Point 8)	15/09/2020 14:57	6.7	During- T3 Trial
pH (Field)	pH units	Trial Site	UGM-M4D (EPA Point 8)	27/09/2020 13:36	6.66	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M4D (EPA Point 8)	3/09/2020 8:12	34435.7	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M4D (EPA Point 8)	15/09/2020 14:57	34948.5	During- T3 Trial
Total Dissolved Solids	mg/L	Trial Site	UGM-M4D (EPA Point 8)	27/09/2020 13:36	35219.4	During- T3 Trial

