



<b>Licence Number</b>	L5646/1994/10
<b>Licence Holder</b>	Iluka Eneabba Pty Ltd
<b>ACN</b>	654 432 541
<b>Registered business address</b>	Level 17, 240 St Georges Terrace PERTH WA 6000
<b>File Number</b>	DER2016/000799-1~4
<b>Duration</b>	01/04/2015 to 30/01/2031
<b>Date of amendment</b>	12 April 2023
<b>Premises details</b>	Eneabba Mineral Sands Mine Brand Hwy ENEABBA WA 6518 Being part of mining tenements AM70/267 and M70/879 as depicted in Schedule 1 and as detailed by Schedule 2.

<b>Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b>	<b>Assessed production capacity</b>
Category 8: Mineral sands mining or processing: premises on which mineral sands ore is mined, screened, separated or otherwise processed.	18,600,000 tonnes per annual period
Category 63: Class I inert landfill site: premises on which waste (as determined by referenced to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the CEO and as amended from time to time) is accepted for burial.	10,000 tonnes per annual period

This amendment is granted to the licence holder, subject to the attached conditions, on 12 April 2023 by:

**MANAGER, PROCESS INDUSTRIES  
REGULATORY SERVICES**

*An officer delegated under section 20 of the Environmental Protection Act 1986 (WA)*

[L5646/1994/10 \(11 April 2023\)](#)

## Licence history

Date	Instrument	Summary of changes
26/02/2007	L5646/1994/8	Licence renewed. Issued for 3 years. Tyre disposal conditions removed; altered monitoring requirements for Max's dam.
25/03/2010	L5646/1994/8	Licence renewed. AACR condition added.
01/12/2011	W5057/2011/1	Works Approval for construction of a temporary 12 MW gas-fired power station.
26/03/2015	L5646/1994/10	Licence renewed.
14/04/2016	L5646/1994/10	Licence review and amendment to authorise disposal of monazite from Narngulu with ASS characteristics at the Eneabba Monazite Disposal Pit. Ambient monitoring conditions updated to specify the physical location.
29/04/2016	L5646/1994/10	Amendment by notice to extend duration of licence to 2031.
20/10/2016	L5646/1994/10	Amendment Notice 1: Licence amendment to relocate ambient air monitoring location 'AQ2'.
22/08/2017	L5646/1994/10	Amendment Notice 2 – reduction of environmental monitoring requirements for low risk areas.
24/04/2019	L5646/1994/10	Amendment Notice 3 – reduction of environmental monitoring requirements given non-operating status. Conditions added to enable progression towards mine closure and relinquishment.
05/08/2019	W6251/2019/1	Works Approval for the construction of associated infrastructure for the Eneabba Mineral Sands (Monazite) Recovery Project Phase 1
07/02/2020	L5646/1994/10	Amalgamation of amendment notices and some administrative corrections including updated Department's contacts. During this amalgamation no risk assessment of the Premises was undertaken.
24/06/2020	L5646/1994/10	Amendment to update waste disposal locations and a dust monitoring location.
03/09/2020	L5646/1994/10	Licence amendment for the operation of the Eneabba Mineral Sands (Monazite) Recovery Project Phase 1
14/02/2022	L5646/1994/10	Amendment to include processing of South Secondary Concentrator Middlings (SSC Mids) through the EP1 Plant; change the disposal of sand/clay tailings slurry into the existing East Dam former mine void; additional inert landfill site in existing 'East Nursery Dam' void; and increase the quantity of inert waste from 5,000 to 10,000 tonnes per annual period. Amendments made to reflect the already approved processing through the EP1 Plant.
12/04/2023	L5646/1994/10	Licence transfer and amendment to redefine premises boundary and remove conditions that are no longer authorised by this instrument.

## Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
  - (i) if dated, refers to that particular version; and
  - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

**NOTE:** This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

## Licence conditions

The licence holder must ensure that the following conditions are complied with:

### Premises operation

1. The licence holder must only dispose waste on the premises if:
  - (a) it is of a type listed in Table 1;
  - (b) the quantity is below any quantity limit listed in Table 1; and
  - (c) it meets any specification listed in Table 1.

**Table 1: Authorised waste types**

Waste type	Quantity limit tonnes/year	Specification
Inert Waste Type 1	10,000 (combined)	(a) Industrial, non-recyclable waste only, including construction and demolition wastes such as building materials, vent bags, non-recyclable packaging, etc.;
Special Waste Type 1		(b) Solid waste only; (c) Waste generated from Iluka Mid West Operations only; and (d) Contaminants must comply with CT1 criteria.

2. The licence holder must ensure that wastes disposed on the Premises are only subjected to the processes set out in Table 2 and in accordance with any process limits described in that table.

**Table 2: Waste processing requirements**

Waste type	Process	Process limits
Inert waste type 1	Disposal of waste by burial	(a) Shall only take place within the, as depicted in Figure 2 of Schedule 1; and (b) No waste shall be burnt;
Special waste type 1		(a) Must be separated from other wastes for disposal; (b) Disposal must occur in a discrete asbestos disposal area within the 'Red 17 pit', as depicted in Figure 2 of Schedule 1; (c) Must be covered with a layer of at least 2 metres of soil as soon as practicable and no later than the end of the working day that it was disposed; (d) A permanent record must be maintained of all disposal locations; and (e) Must not be disposed within 2 metres of the final landform surface of the pit.

3. The licence holder must ensure that sufficient cover is applied and maintained on landfilled wastes in accordance with Table 3.

**Table 3: Waste cover requirements**

Waste type	Material	Timescale
Inert waste type 1	Clean fill or soil	(a) At least Monthly; and (b) Waste with the potential to become windblown must be covered as soon as practicable after deposit.

## Emissions

4. The licence holder must implement the controls specified in Column 1 of Table 4 in accordance with the actions/ requirements specified in Column 2 of Table 4.

**Table 4: Dust controls**

Column 1	Column 2
Control	Actions/Requirements
Dust suppression	(a) Must operate water carts when discernible levels of dust are generated from ground surfaces on the Premises; (b) Must apply proactively to unsealed operational areas associated with MSRP (e.g. in the mining area, roadways, loading areas and process plant area); and (c) Must ensure that any water used on the premises for dust suppression does not impact on the health of native vegetation.
Traffic	(a) Must adhere to site speed limits and designated roads; and (b) Must operate a vehicle wash down bay and ensure trucks loaded with finished product are washed prior to leaving the area.

5. The licence holder must ensure that fugitive emissions are managed in accordance with the parts of the document specified in Table 5.

**Table 5: Management plans**

Management plan reference	Parts	Date of document
Dust Management Plan	(a) 5.0 Implementation Strategy and Management Actions – Table 1 Summary of Management Actions for Dust; and (b) 6.0 Monitoring – Table 2 Summary of Dust Monitoring Program.	June 2022

## Monitoring (general)

6. The licence holder must ensure that all monitoring equipment used on the premises to comply with the conditions of this licence is calibrated in accordance with the manufacturer's specifications.
7. The licence holder must, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.
8. The licence holder must undertake monitoring of ambient air quality at the locations and for the parameters listed in Table 6 in the corresponding units, over the averaging period and at the frequency set out in that table.

**Table 6: Ambient air quality monitoring**

Monitoring point reference	Parameter	Units	Monitoring frequency	Averaging period	Method
ENE1 (Allied tails); ENE4 & 5 (Brand Hwy Sth); ENE7 (Allied tails); and ENE8 (Eneabba town).	TSP	g/m <sup>2</sup>	Continuous <sup>1</sup>	Monthly <sup>2,3</sup>	AS 3580.10.1

Note 1: Availability ≥90% of the measurement interval.

Note 2: During the period 1 October and ending 31 May the following year.

Note 3: Monthly monitoring is undertaken at least 15 days apart.

## Records and reporting

9. The licence holder must ensure that all information and records required by the licence:
  - (a) be legible;
  - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible and are capable of retrieval;
  - (c) except for records listed in condition 10(d), be retained for at least 6 years from the date the records were made or until the expiry of the licence or any subsequent licence; and
  - (d) for those following records, be retained until the expiry of the licence and any subsequent licence:
    - (i) off-site environmental effects; or
    - (ii) matters which affect the condition of the land or waters.
10. The licence holder must:
  - (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
  - (b) prepare and submit to the CEO, by no later than 31 March in each year, an annual audit compliance report in the approved form.
11. The licence holder must implement a complaints management system that as a minimum, records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

## Annual environmental report

12. The licence holder must submit to the CEO, by 31 March in each year, an annual environmental report for the preceding annual period which includes, but is not limited to:
  - (a) details of the calculation of fees payable in respect of this licence;
  - (b) a summary of the process monitoring required by condition 7;
  - (c) the monitoring report required by condition 8;
  - (d) a summary of any complaints received and management actions taken for each complaint; and
  - (e) a summary of any environmental incidents and any action(s) taken.

- 13.** The licence holder must ensure the report required by condition 12 includes:
- (a) an appraisal and trend analysis of the results against any baseline data and previous monitoring results; and
  - (b) time-series figures for all monitoring data, with axes presented on relevant scales.

## Definitions

In this licence, the terms in Table 7 have the meanings defined.

**Table 7: Definitions**

Term	Definition
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
ACN	means Australian Company Number
AHD	means Australian Height Datum
annual period	means a 12 month period commencing from 1 January until 31 December in the same year
AS 3580.1.1	means the Australian Standard AS 3580.1.1 <i>Methods for sampling and analysis of ambient air – Guide to siting air monitoring equipment</i>
AS 3580.10.1	means the Australian Standard AS 3580.10.1 <i>Methods for sampling and analysis of ambient air – Determination of particulate matter – deposited matter – gravimetric method</i>
averaging period	means the time over which a limit is measured or a monitoring result is obtained
Books	has the same meaning given to that term under the EP Act
CEO	means the Chief Executive Officer of the Department. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6919 <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
condition	means a condition to which this licence is subject under s.62 of the EP Act
CT1 criteria	means the contaminate threshold (CT) values for a Class I landfill, as per Table 3 of the landfill definitions
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act
Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or CEO to the Works Approval Holder in writing and sent to the Works Approval's address for notifications, as described at the front of this Works Approval, in relation to: a) compliance with the EP Act or this Works Approval; b) the Books or other sources of information maintained in accordance with this Works Approval; or the Books or other sources of information relating to Emissions from the Premises
discharge	has the same meaning given to that term under the EP Act
DWER	means the Department of Water and Environmental Regulation
Dust Management Plan	means the document titled 'Dust Management Plan – Eneabba Operations', prepared by Iluka Resources and dated April 2018
emission	has the same meaning given to that term under the EP Act
Environmental Harm	has the same meaning given to that term under the EP Act
EP Act	means the <i>Environmental Protection Act 1986</i> (WA)



EP Regulations	means the <i>Environmental Protection Regulations 1987</i> (WA)
Iluka Mid West Operations	means the Narngulu Synthetic Rutile Plant, Narngulu Mineral Separation Plant and Eneabba Mineral Sands Mine
Iluka South West Operations	means the North Capel dry plant and synthetic rutile plant, the Capel dry mill and the Tutunup South mine
Inert Waste Type 1	has the same meaning given to that term in the Landfill Definitions and means a non-hazardous, non-biodegradable (half-life greater than 2 years) waste containing contaminant concentrations less than Class I landfill acceptance criteria but excluding paper and cardboard and materials that require treatment to render them inert (e.g. peat, acid sulfate soils)
landfill definitions	means the document entitled 'Landfill Waste Classification and Waste Definitions 1996' published by the CEO and as amended from time to time
licence	refers to this document, which evidences the grant of a licence by the CEO under s.57 of the EP Act, subject to the Conditions
licence holder	refers to the occupier of the premises being the person to whom this licence has been granted, as specified at the front of this licence
Premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the map in Schedule 1 to this licence
prescribed premises	has the same meaning given to that term under the EP Act
Special Waste Type 1	has the same meaning given to that term in the landfill definitions and means waste which contains asbestos and asbestos cement products

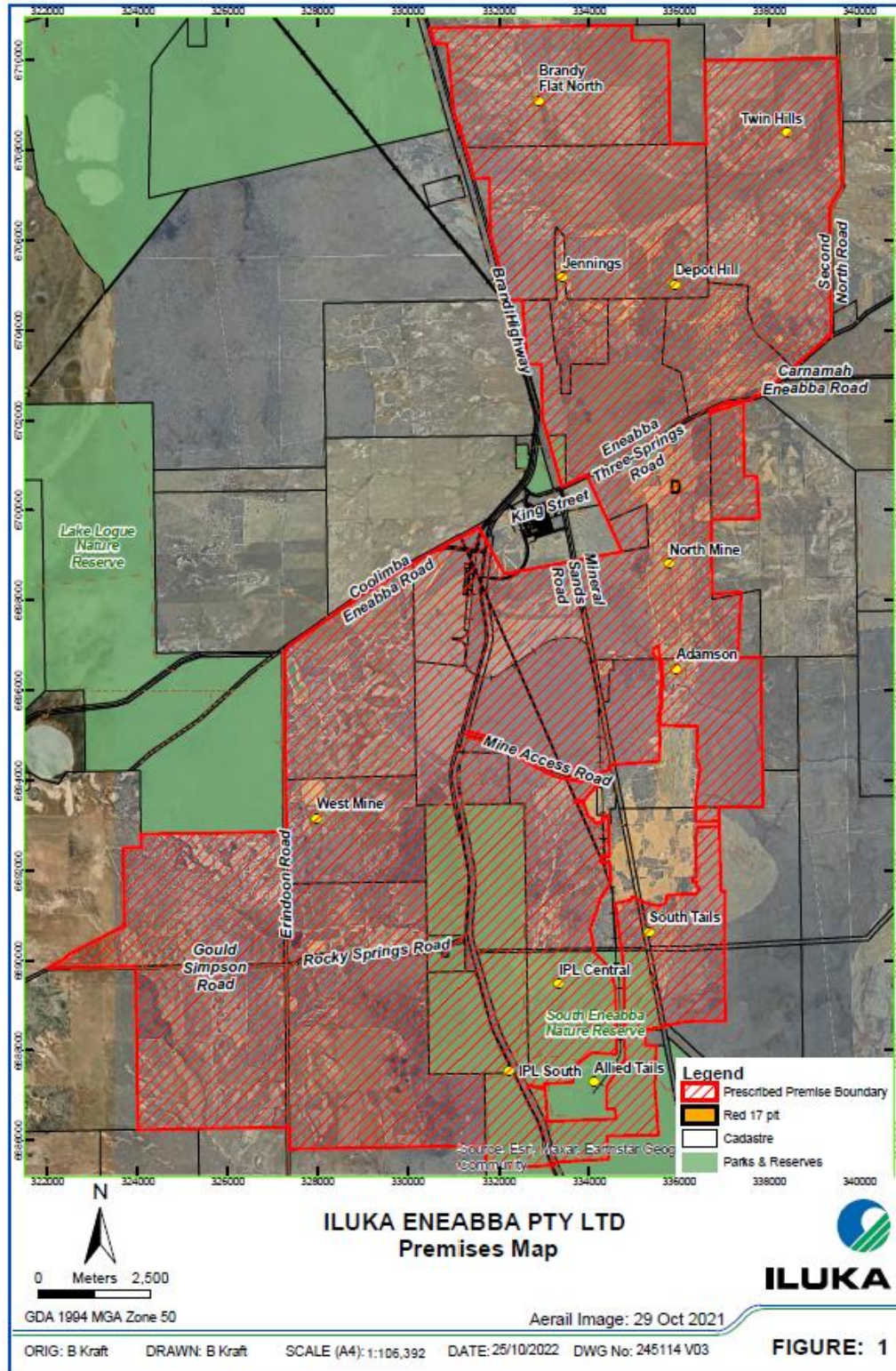
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**END OF CONDITIONS**

## Schedule 1: Maps

### Premises map

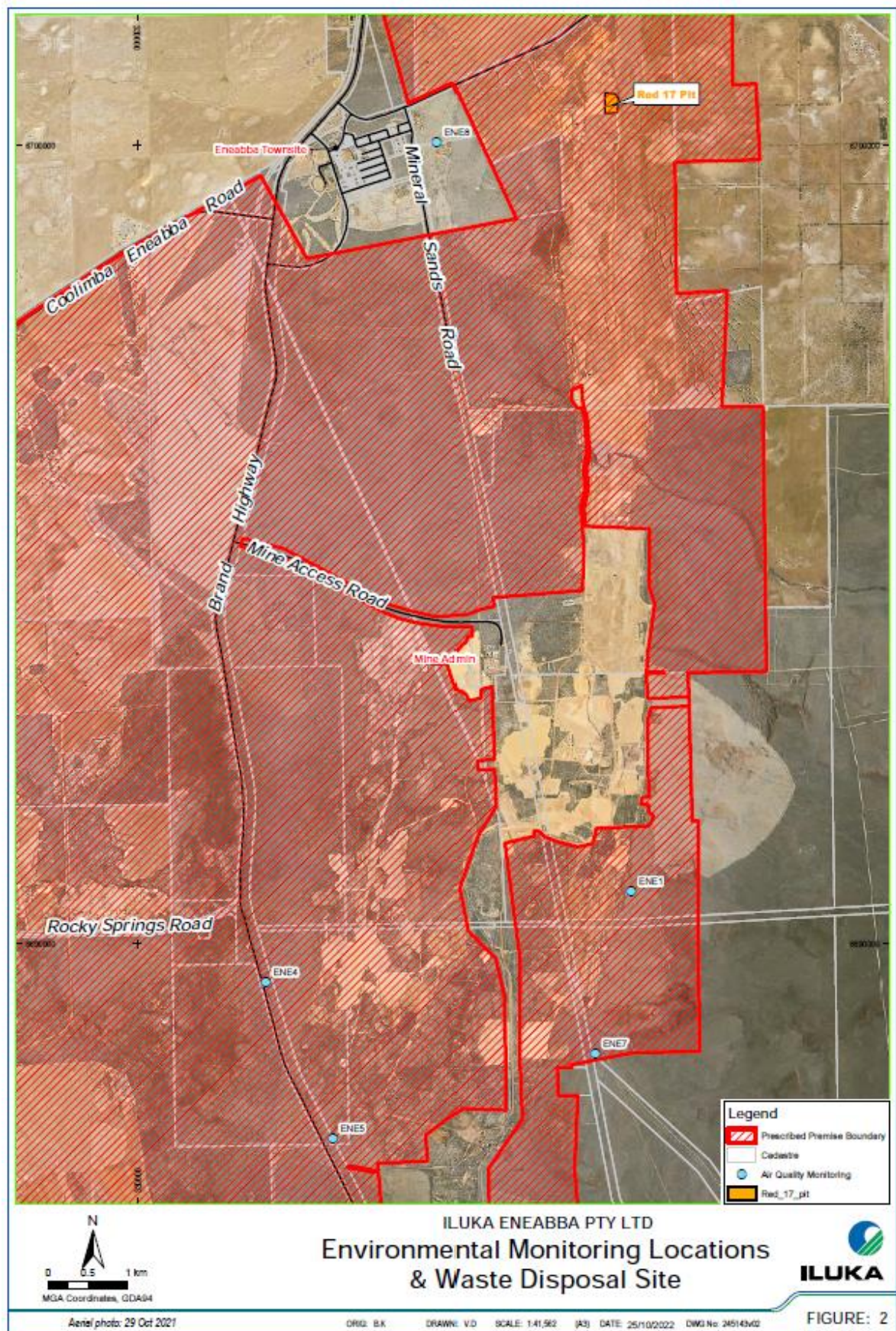
The boundary of the prescribed premises is shown in the map below (Figure 1).



**Figure 1: Map of the boundary of the prescribed premises**

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**Figure 2: Map of environmental monitoring locations and waste disposal site**

L5646/1994/10 (11 April 2023)

IR-T06 Licence template (v6.0) (February 2020)

## Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 8.

**Table 8: Premises boundary coordinates**

	Easting	Northing
0.	336887.6246	6693095.719
1.	336373.2575	6693074.29
2.	336355.795	6693369.407
3.	336357.205	6693389.053
4.	336584.718	6693391.848
5.	336582.9216	6693404.936
6.	336358.2875	6693404.135
7.	336379.6076	6693701.195
8.	336412.9451	6693903.919
9.	336460.5702	6694259.52
10.	336392.3076	6694473.833
11.	336393.8951	6694654.808
12.	336397.484	6695195.417
13.	335588.8558	6695230.062
14.	335576.848	6695455.809
15.	335622.4776	6695674.351
16.	335612.8714	6695972.145
17.	335648.8948	6696123.443
18.	335615.273	6696618.165
19.	335572.0448	6696721.432
20.	335552.8323	6696841.51
21.	335545.6277	6696995.21
22.	335425.5495	6696930.368
23.	335415.9433	6696819.896

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24.	335495.1948	6696704.621
25.	335543.2261	6696711.826
26.	335576.848	6696613.362
27.	335610.4698	6696176.278
28.	335572.0448	6695950.531
29.	335588.8558	6695707.973
30.	335535.3733	6695462.785
31.	335552.8556	6695229.169
32.	335573.7629	6694954.387
33.	335555.8423	6694425.729
34.	334438.7915	6694336.126
35.	334447.2207	6694222.895
36.	334290.902	6694193.866
37.	334130.6451	6694128.37
38.	333746.6365	6694094.923
39.	333429.5887	6694168.991
40.	333107.8737	6694262.381
41.	331843.7691	6694945.248
42.	331322.9527	6695080.242
43.	331295.1322	6694976.833
44.	331815.2212	6694835.624
45.	333082.7515	6694157.324
46.	333279.0339	6694077.269
47.	333526.6844	6694016.944
48.	333797.3401	6693976.615
49.	334175.6243	6693977.557
50.	334175.24	6693852.828



51.	334123.8192	6693849.472
52.	334098.5391	6693780.373
53.	334051.3496	6693746.666
54.	333894.7686	6693556.295
55.	333672.915	6693549.945
56.	333677.2806	6693509.861
57.	333873.7342	6693513.433
58.	333882.1483	6693492.36
59.	333980.5654	6693190.504
60.	334091.7978	6693134.888
61.	334137.3019	6693040.509
62.	334294.0385	6693086.013
63.	334292.3532	6693188.819
64.	334422.6835	6693222.823
65.	334429.5187	6693029.84
66.	334451.7437	6692432.78
67.	334456.3225	6692310.406
68.	334245.8395	6692296.591
69.	334250.2915	6692178.33
70.	334460.7572	6692191.884
71.	334478.4138	6691719.991
72.	334250.2915	6691360.313
73.	334023.6309	6690701.231
74.	334128.1678	6690166.6
75.	334474.6327	6689817.148
76.	334579.1696	6689360.172
77.	334597.0902	6688568.679

78.	334597.0902	6687920.551
79.	334061.0371	6687943.934
80.	333615.9067	6687614.382
81.	333634.649	6687284.829
82.	333008.1302	6687257.489
83.	333017.9129	6687171.938
84.	332952.1525	6687170.785
85.	332680.4581	6687224.431
86.	332631.4262	6687214.048
87.	332641.8095	6687192.128
88.	332683.3424	6687200.781
89.	332948.6914	6687147.711
90.	333020.2203	6687148.288
91.	333026.6465	6687087.696
92.	333080.7303	6686421.79
93.	334598.4557	6686472.493
94.	334573.1797	6686704.191
95.	334388.0165	6686695.976
96.	334382.7806	6687194.241
97.	334802.9213	6687808.052
98.	334770.8477	6688561.479
99.	334774.2279	6689808.785
100.	334585.1431	6691265.73
101.	334949.2672	6691348.515
102.	334950.8547	6691416.778
103.	335019.1173	6691410.428
104.	335087.38	6691340.578

105.	335252.4803	6691280.253
106.	335496.9558	6691215.165
107.	335687.4562	6691256.44
108.	335728.99	6691448.911
109.	336385.9576	6691480.278
110.	336428.1423	6691539.973
111.	336445.1297	6691606.084
112.	336384.1186	6691652.807
113.	336383.1378	6691744.833
114.	336286.756	6691752.021
115.	336306.5989	6691835.001
116.	336387.0215	6691840.725
117.	336378.0201	6692224.976
118.	336374.845	6692809.177
119.	336414.5326	6692956.815
120.	336890.052	6692979.564
121.	336887.6246	6693095.719
122.	336921.1597	6691821.943
123.	336928.6366	6691537.97
124.	337011.4304	6691537.963
125.	337003.4574	6690085.108
126.	337024.3325	6688655.981
127.	336197.4823	6688643.666
128.	335417.8852	6688491.463
129.	335424.655	6688457.842
130.	335244.7665	6688455.123
131.	335250.0682	6688103.17



132.	335495.9142	6688106.874
133.	335478.2749	6687650.56
134.	335460.3504	6687188.37
135.	335483.0896	6686877.584
136.	335539.0206	6686113.212
137.	335088.9803	6686106.377
138.	334396.6944	6686095.862
139.	334429.1851	6685583.245
140.	333220.4667	6685511.441
141.	333231.0267	6685449.274
142.	332935.859	6685435.214
143.	332136.7751	6685397.148
144.	332121.6149	6685378.515
145.	331709.4743	6685372.324
146.	331701.2299	6685875.144
147.	331701.1406	6685880.614
148.	331375.9116	6685875.262
149.	330576.1975	6685862.102
150.	329776.3195	6685848.939
151.	329469.9749	6685843.898
152.	328976.4407	6685835.777
153.	328176.7576	6685822.617
154.	327376.9526	6685809.457
155.	327372.1622	6686290.604
156.	327311.8392	6686289.603
157.	325352.0269	6686257.386
158.	324018.542	6686235.463

159.	323965.6622	6689453.361
160.	323959.8194	6689809.085
161.	323958.8275	6689869.52
162.	322002.757	6689837.06
163.	322361.358	6690019.482
164.	322497.2774	6690147.644
165.	323708.7731	6690763.88
166.	323680.501	6692492.463
167.	324082.7718	6692499.034
168.	324077.8495	6692800.734
169.	327246.5777	6692852.483
170.	327306.9244	6692853.455
171.	327295.4196	6694012.021
172.	327276.0877	6695962.39
173.	327267.7472	6696802.788
174.	327340.5736	6696963.201
175.	327889.4411	6697339.626
176.	328055.9584	6697453.825
177.	328219.7413	6697571.964
178.	328231.4117	6697580.383
179.	328382.8826	6697689.641
180.	328707.9528	6697924.119
181.	329834.2334	6698658.397
182.	330120.2329	6698818.064
183.	330585.5155	6699077.821
184.	330750.9001	6699170.152
185.	331131.9782	6699382.899

186.	331132.4494	6699383.161
187.	331143.0744	6699389.094
188.	331144.5774	6699389.932
189.	331160.6243	6699398.89
190.	331548.8686	6699615.636
191.	331588.1976	6699545.172
192.	331613.3441	6699500.119
193.	331701.3888	6699342.375
194.	331712.2458	6699322.92
195.	331832.1474	6699108.084
196.	332126.905	6698580.247
197.	332267.9648	6698607.317
198.	332400.2139	6698632.679
199.	332469.7844	6698646.021
200.	333038.1178	6698755.225
201.	333611.6972	6698865.089
202.	333710.4789	6698884.008
203.	334495.216	6699034.315
204.	334729.6989	6699079.228
205.	334412.9609	6699762.873
206.	333968.6565	6700722.497
207.	333943.3045	6700777.251
208.	333487.3315	6700566.351
209.	333396.0493	6700524.131
210.	333071.1013	6701667.256
211.	332971.7403	6702016.775
212.	332936.0847	6703238.126

213.	332625.5016	6703234.635
214.	332513.8432	6704661.905
215.	332220.8885	6704657.835
216.	332218.057	6704667.799
217.	331793.8249	6706159.995
218.	331801.5848	6706160.103
219.	331784.6827	6707366.856
220.	331452.0327	6707362.19
221.	331254.5895	6708056.627
222.	331024.7255	6708865.093
223.	330873.3371	6710371.754
224.	330597.4306	6710367.938
225.	330500.1983	6710709.908
226.	334952.3602	6710771.512
227.	334957.2375	6710429.214
228.	335762.1258	6710439.567
229.	335783.2088	6708931.838
230.	335794.4668	6708126.338
231.	336598.3606	6708138.682
232.	336595.0803	6708375.328
233.	336583.9306	6709179.78
234.	336572.7852	6709984.233
235.	338081.0465	6710004.801
236.	338286.8184	6710007.605
237.	338286.5444	6710027.717
238.	339510.3401	6710044.397
239.	339511.0998	6710024.297

240.	339541.544	6709219.786
241.	339571.9903	6708415.231
242.	339602.4292	6707610.96
243.	339617.736	6707206.533
244.	339392.5209	6706803.79
245.	339334.6099	6706700.23
246.	339344.2602	6705998.397
247.	339355.3235	6705193.989
248.	339366.3897	6704389.561
249.	339372.4874	6703946.354
250.	339373.1181	6703900.543
251.	339002.316	6703580.025
252.	338718.4887	6703334.688
253.	338512.5491	6703156.675
254.	338378.565	6703040.86
255.	338273.2403	6702949.818
256.	337851.2647	6702585.064
257.	337662.1065	6702516.695
258.	337620.4157	6702510.463
259.	337621.1616	6702449.488
260.	337425.1427	6702420.199
261.	336983.5376	6702354.216
262.	336680.3683	6702209.658
263.	336681.1945	6702149.601
264.	337425.2627	6702400.796
265.	337435.2027	6700752.187
266.	337727.5728	6700765.847

267.	337777.2057	6699815.122
268.	336713.6659	6699790.148
269.	336719.4351	6699371.015
270.	336737.3092	6698142.391
271.	337369.5894	6698178.421
272.	337301.3856	6696721.864
273.	337756.0024	6696728.706
274.	337815.9859	6696729.608
275.	337816.2512	6696709.611
276.	337827.9634	6695823.909
277.	337843.9172	6694617.536
278.	337849.231	6694215.688
279.	337859.8727	6693411.264
280.	336880.9301	6693398.422
281.	336887.6246	6693095.719