Permit

Environmental Protection Act 1994

Environmental authority EPPR00917913

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR00917913

Environmental authority takes effect on day the authority is issued.

The anniversary date of this environmental authority is 31 October each year.

The payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name(s)	Registered address
VIVA ENERGY AUSTRALIA PTY LTD	Level 16 720 Bourke Street DOCKLANDS VIC 3008

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 63 - Sewage Treatment - 1(a-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	953/CG6336
ERA 63 - Sewage Treatment - 1(a-i) - Operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 21 to 100EP - if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	954/CG6280

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any

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inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

The anniversary day of this environmental authority is the same day each year as the original take effect date unless you apply to change the anniversary day. The payment of the annual fee will be due each year on this day.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

	**12 June 2023**
Signature	Date

Melanie David
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Permit and Licensing/Operational Support
Department of Environment and Science
GPO Box 2454, BRISBANE QLD 4001
Phone: 1300 130 372
Email: palm@des.qld.gov.au

Privacy statement

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@des.qld.gov.au or telephone 13 74 68.

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at https://www.rshq.qld.gov.au/, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. If you are unsure that you have the most current version of the environmental authority relating to this site please visit https://apps.des.qld.gov.au/env-authorities/ to access all environmental authorities currently approved.

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following general conditions of the approval.

SCHEDULE A – GENERAL CONDITIONS	
Condition number	**Condition**
A1	**Maintenance of Plant and Equipment** The holder of this environmental authority must: (i) install all plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and (ii) maintain such plant and equipment in a proper and efficient condition; and (iii) operate such plant and equipment in a proper and efficient manner. In this condition, "plant and equipment" includes: (i) plant and equipment used to prevent and/or minimise the likelihood of environmental harm being caused; (ii) devices and structures to contain foreseeable escapes of contaminants and waste; (iii) vehicles used to transport waste; (iv) devices and structures used to store, handle, treat and dispose of waste; (v) monitoring equipment and associated alarms; and (vi) backup systems that act in the event of failure of the primary system.
A2	**Display of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
A3	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
A4	Copies of any record or document required to be kept by a condition of this environmental authority must be provided to any authorised person or the administering authority on request.
A5	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority. An example of a substantial increase in the risk of environmental harm is an increase of ten percent (10%) or more in the quantity of the contaminant to be released into the environment
A6	**Calibration** All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
A7	**Nuisance** Notwithstanding any other condition of this environmental authority, this environmental authority does not authorise any release of contaminants which causes or is likely to cause an environmental nuisance beyond the boundaries of the place to which this environmental authority relates.

SCHEDULE B - AIR	
Condition number	**Condition**
B1	**Noxious or Offensive Odour** Notwithstanding any other condition of this environmental authority, no release of contaminants from the licensed place is to cause a noxious or offensive odour beyond the boundaries of the licensed place.
SCHEDULE C - WATER	
Condition number	**Condition**
C1	**Release of Contaminants to Waters** Contaminants must not be directly or indirectly released from the licensed place to any waters or the bed and banks of any waters except: (i) as permitted under the stormwater management schedule; or (ii) to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.
SCHEDULE D - STORMWATER MANAGEMENT	
Condition number	**Condition**
D1	**Contaminant Releases Caused by Rainfall** Except as otherwise provided by the conditions of the stormwater management schedule and the water schedule of this environmental authority, the environmentally relevant activity must be carried out by such practicable means necessary to prevent and/or minimise the release or likelihood of release of contaminated runoff from the licensed place to any stormwater drain or waters or the bed or banks of any such waters. "Contaminated runoff' for the purposes of this condition means stormwater and/or stormwater runoff that contains contaminants that may cause environmental harm.
D2	**Maintenance and Cleanup** The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or external stormwater drainage system.
D3	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillages must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.
SCHEDULE E - LAND APPLICATION	
Condition number	**Condition**
E1	**Release of Contaminants to Land** The only contaminants to be released to land are treated sewage effluents from the sewage treatment plant.
E2	**Contaminant Release Area** The defined contaminant release areas are those identified as 'effluent disposal areas', as depicted in Schedule J - Plan of Development: *(a) "Plan of Effluent Disposal Area',* Job Number 850542-12; and *(b) "Plan of Effluent Disposal Area",* Job Number 850542-B.

<table>
<tr><td>E3</td><td>A suitable system of diversion banks and or diversion drains must be established and maintained immediately up-slope of the irrigation area to exclude stormwater run-off from the contaminant release areas.</td></tr>
<tr><td>E4</td><td>Quality of Contaminants Released from the Sewage Treatment Plant to Land
The contaminants released from the sewage treatment plant to land must comply, at the sampling and in-situ measurement point/s specified in Schedule H, with each of the release limits specified in Schedule E - Table 1 for each quality characteristic.

SCHEDULE E - TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS
<table>
<tr><th>QUALITY</th><th>RELEASE LIMIT</th><th>LIMIT TYPE</th></tr>
<tr><td>5-day Biochemical Oxygen Demand (inhibited)</td><td>20 mg/L</td><td>maximum</td></tr>
<tr><td>Suspended Solids</td><td>30 mg/L</td><td>maximum</td></tr>
<tr><td>pH</td><td>6.5 to 8.5</td><td>range</td></tr>
<tr><td>Dissolved Oxygen</td><td>2.0 mg/L</td><td>minimum</td></tr>
<tr><td>Free Chlorine Residual</td><td>0.7 mg/L</td><td>maximum</td></tr>
<tr><td>Faecal Coliforms</td><td colspan="2">150 organisms per 100 mL as a median value (minimum of 5 samples taken at not less than half-hourly intervals in any one day, with 4 out of the 5 samples containing less than 600 organisms per 100 mL)</td></tr>
</table></td></tr>
<tr><td>E5</td><td>Notwithstanding the quality characteristic limits specified in Table 1 of the Land Application Schedule the contaminants released must not have any properties nor contain any organisms or contaminants in concentrations that are capable of causing environmental harm.</td></tr>
<tr><td>E6</td><td>Contaminant Release Precautions
The contaminant release area must be maintained in a proper and efficient condition so as to provide adequate assimilation, percolation, evaporation and transpiration of the contaminants released.</td></tr>
<tr><td>E7</td><td>The release of contaminants to land, must be carried out in such a manner that there is no ponding or pooling of contaminants on the surface of the contaminant release area nor seepage of contaminants from the contaminant release area to any waters or stormwater drain.</td></tr>
<tr><td>E8</td><td>Spray from any release of contaminants to land must not drift beyond the boundaries of the licensed place.</td></tr>
<tr><td>E9</td><td>Public access to any contaminant release area must be denied during the release of contaminants to land and until the release area has dried.</td></tr>
<tr><td>E10</td><td>Notices warning the public not to use or drink the release of contaminants to land must be prominently displayed and must be maintained in a visible and legible condition.</td></tr>
<tr><td>E11</td><td>The contaminant release area must not be used for grazing, recreational activities or as a traffic thoroughfare.</td></tr>
<tr><td>E12</td><td>The irrigation of treated sewage effluent to land must not be carried out between dusk on any one day and dawn on the following day.</td></tr>
<tr><td>E13</td><td>Low pressure sprinklers shall be used to produce aerosol-free irrigation with treated sewage effluent.</td></tr>
</table>

E14	Pipelines and fittings for the release of contaminants to land must be clearly identified. Standard water taps, hoses and cocks must not be fitted to contaminant release pipelines, and the contaminant release system must not be connected to other service pipelines. Lockable valves or removable handles must be fitted to the contaminant release pipelines where there is public access to the contaminant release areas.
E15	When wet weather or soil conditions preclude the surface irrigation of effluent to land, the contaminants must be directed to the area designated as the 'Sub-Surface Disposal Area' as depicted in Schedule J - Plan of Development: *(a) "Plan of Effluent Disposal Area",* Job Number 850542-12; and *(b) "Plan of Effluent Disposal Area",* Job Number 850542-B.
E16	The sub-surface disposal area must be designed and operated in accordance with Australian Standard - (AS1547-1994), *"Disposal systems for effluent from domestic premises".*
E17	**Effluent Irrigation Management Plan** Twelve (12) months after the issue of this environmental authority, the holder of this environmental authority must develop and implement an Irrigation Management Plan which details how the holder of this environmental authority will effectively and appropriately manage the effluent irrigation process so as to ensure that the release of effluent to land is carried out in an environmentally sustainable manner.
E18	The Irrigation Management Plan must detail how irrigation is to be managed and scheduled having regard to at least the following: (i) soil moisture results; (ii) weather forecasts and climate monitoring results; (iii) irrigation records for each effluent disposal area; (iv) characteristics and quantity of contaminants which are applied, including biochemical oxygen demand, suspended solids, total nitrogen, total phosphorus, conductivity, dissolved oxygen, pH, total dissolved salts; (v) characteristics of the soil in the contaminated release area, including pH, salinity, total dissolved salts, total nitrogen, total phosphorus, total potassium, sodium, calcium, magnesium, calculated Sodium Adsorption Ratio, exchangeable cations; (vi) type of vegetation intended to be grown in the contaminant release area; (vii) cropping practice for each effluent disposal area; (viii) management practices for the irrigation polishing dam to prevent algae blooms; (ix) sustainable hydraulic loadings for the contaminant release area; (x) sustainable biological oxygen demand loadings for the contaminant release area; (xi) sustainable nitrogen loadings for the contaminant release area; (xii) sustainable phosphorous loadings for the contaminant release area; (xiii) sustainable salt loadings for the contaminant release area; and (xiv) production of appropriate records and reporting of results and environmental issues.
E19	A copy of the Irrigation Management Plan must be kept at the premises to which this environmental authority relates.
SCHEDULE F - NOISE	
Condition number	**Condition**

<table>
<tr><td>F1</td><td>Emission of Noise
In the event of a complaint about noise that constitutes intrusive noise being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the place to which this development approval relates must not result in levels greater than those specified in Schedule F, Table 1.
SCHEDULE F TABLE
<table>
<tr><th colspan="2">NOISE LIMITS AT A NOISE SENSITIVE PLACE</th></tr>
<tr><td>Period</td><td>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$</td></tr>
<tr><td>7 am - 6 pm</td><td>Background noise level plus 5 dB(A)</td></tr>
<tr><td>6 pm - 10 pm</td><td>Background noise level plus 5 dB(A)</td></tr>
<tr><td>10 pm - 7 am</td><td>Background noise level plus 3 dB(A)</td></tr>
<tr><th colspan="2">NOISE LIMITS AT A COMMERCIAL PLACE</th></tr>
<tr><td>Period</td><td>Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level $L_{Amax\ adj,\ T}$</td></tr>
<tr><td>7 am - 6 pm</td><td>Background noise level plus 10 dB(A)</td></tr>
<tr><td>6 pm - 10 pm</td><td>Background noise level plus 10 dB(A)</td></tr>
<tr><td>10 pm - 7 am</td><td>Background noise level plus 8 dB(A)</td></tr>
</table></td></tr>
<tr><th colspan="2">SCHEDULE G - WASTE MANAGEMENT</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>G1</td><td>General
The holder of this environmental authority must not:
(i) burn waste at or on the licensed place; nor
(ii) allow waste to burn or be burned at or on the licensed place; nor
(iii) remove waste from the licensed place and burn such waste elsewhere.</td></tr>
<tr><td>G2</td><td>Manholes and/or inspection covers which can be easily removed and replaced must be provided for inspection, desludging and/or cleaning of the grease traps.</td></tr>
<tr><td>G3</td><td>Off Site Movement
All transport of regulated waste generated in carrying out the environmentally relevant activity must be transported by a proper and appropriate licensed waste transporter that can lawfully transport such waste.</td></tr>
<tr><td>G4</td><td>All disposal of regulated waste generated in carrying out the environmentally relevant activity must be to a proper and appropriate licensed waste disposal facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse and/or recycle such waste, except as specifically provided for under the conditions of this environmental authority.</td></tr>
</table>

G5	Where regulated waste is removed from the licensed place (other than by a release as permitted under another schedule of this environmental authority), the holder of this environmental authority must monitor and keep records of the following: (i) the date, quantity and type of waste removed; and (ii) name of the waste transporter and/or disposal operator that removed the waste; and (iii) the intended treatment/disposal destination of the waste. (NOTE: Records of documents maintained in compliance with a waste tracking system established under the Environmental Protection Act 1994 or any other law for regulated waste will be deemed to satisfy this condition.)
G6	Regulated waste must not be released to the environment, stored, transferred or disposed of contrary to any condition of this environmental authority.
G7	**Notification of Improper Disposal of Regulated Waste** If the holder of this environmental authority becomes aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.
Schedule H - Self Monitoring and Reporting	
Condition number	**Condition**
H1	**Complaint Recording** All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the licensed place must be recorded and kept with the following details: (i) time, date and nature of complaint; (ii) type of communication (telephone, letter, personal etc.); (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); (iv) response and investigation undertaken as a result of the complaint; (v) name of person responsible for investigating complaint; and (vi) action taken as a result of the complaint investigation and signature of responsible person.
H2	**Notification of Emergencies and Incidents** Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994,* as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.

H3	Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994,* the notification of emergencies or incidents as required by condition H2 must include but not be limited to the following: (i) the name of the holder of the environmental authority; and (ii) the location of the emergency or incident; and (iii) the number of the environmental authority; and (iv) the name and telephone number of the designated contact person; and (v) the time of the release; and (vi) the time the holder of the environmental authority became aware of the release; and (vii) the suspected cause of the release; and (viii) the environmental harm caused, threatened, or suspected to be caused by the release; and (ix) actions taken to prevent further any release and mitigate any environmental harm caused by the release.
H4	Where the holder of this environmental authority has not given notification to the administering authority under section 37 of the *Environmental Protection Act 1994,* not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of the development approval must provide written advice of the information supplied in accordance with condition H3 in addition to: (i) proposed actions to prevent a recurrence of the emergency or incident; and (ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance; and (iii) the results of any environmental monitoring performed.
H5	As soon as practicable, but not more than six (6) weeks following the conduct of any environmental monitoring performed in relation to the emergency or incident, which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of the environmental authority must provide written advice of the results of any such monitoring performed to the administering authority.
H6	**Exception Reporting** The holder of this environmental authority must notify the administering authority in writing of any monitoring result which indicates an exceedance of any licence limit within twenty eight (28) days of completion of analysis.
H7	The written notification required by condition H6 above must include: (i) the full analysis results, and (ii) details of investigation or corrective actions taken, and (iii) any subsequent analysis.
H8	**Incident Recording** A record must be maintained of at least the following events: (i) the time, date and duration of equipment malfunctions where the failure of the equipment resulted in the release of contaminants reasonably likely to cause environmental harm; (ii) any uncontrolled release of contaminants reasonably likely to cause environmental harm and (iii) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of fire fighting equipment.

H9

Monitoring of Contaminant Releases to Land
The holder of this environmental authority is responsible for the making of determinations and keeping records of the quality of the contaminants released to the contaminant release area for the quality characteristics, and frequency specified in Schedule H - Table 1.

Schedule H - Table 1

Quality Characteristics	Units	Monitoring Frequency
5-day Biochemical Oxygen Demand	mg/L	quarterly
Suspended solids	mg/L	quarterly
pH	pH scale	quarterly
Dissolved Oxygen	mg/L	quarterly
Free Chlorine Residual	mg/L	quarterly
Faecal Coliforms	cfu/100 ml	quarterly

H10

Sampling and In-situ Monitoring Points Details
Determinations of the quality of contaminants released to land to check conformity with the release quality characteristics specified in Schedule E - Table 1 of this environmental authority, must be undertaken at the sampling and in-situ measurement point described as at the outlet of the sewage treatment plant prior to discharge to land.

H11

Contaminant Release Area Monitoring Program
The holder of this environmental authority must develop and implement a Contaminant Release Area Monitoring Program to effectively monitor the condition of the land to which contaminants are released

H12

Monitoring required by development condition H11 shall include the taking of top soil and sub-soil samples from at least five (5) representative sites for the quality characteristics and at the frequency specified in Schedule H - Table 2.

Schedule H - Table 2

Quality Characteristics	Units	Monitoring
pH	pH scale	Annually
Total Nitrogen (as Nitrogen)	mg/L	Annually
Total Phosphorous (as Phosphorous)	mg/L	Annually
Sodium Adsorption Ratio	calculated	Annually
Specific Conductance or electrical	µS/cm	Annually
Exchangeable cations	mg/L	Annually
Potassium	mg/L	Annually
Total Calcium	mg/L	Annually
Total Magnesium	mg/L	Annually
Total Sodium	mg/L	Annually

H13

Twelve (12) months after the issue of this environmental authority, the holder of this environmental authority must submit a proposal for the Contaminant Release Area Monitoring Program to the administering authority.

H14

The proposal for the Contaminant Release Area Monitoring Program must include but not be limited to the following:

(i) the locations of monitoring stations including soil types and depths; and
(ii) the proposed vegetation characteristics to be monitored.

H15

The holder of this environmental authority must submit with the annual return a report on the Contaminant Release Area Monitoring Program including an assessment of the impact of the release of treated sewage effluents to the contaminant release area, and whether the release is being carried out in an environmentally sustainable manner. This report shall include an interpretation of the results and conclusions by an expert in the field of effluent land disposal.

H16	**Quality Determinations** All determinations of the quality of contaminants released to land must be made in accordance with methods prescribed in the Department of Environment and Heritage's Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent editions or supplements to that document as such become available
H17	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
H18	**Noise Monitoring** For the purposes of checking compliance with condition F1, monitoring and recording of the noise levels from the activity must be undertaken for the following descriptors, characteristics and conditions: (i) $L_{Amax\ adj,\ T}$; (ii) $L_{Abg,\ T}$ or L_A;. (iii) $L_{AN\ T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); (iv) Max $L_{pA,\ T}$ (v) $L_{Aeq,\ T}$; (vi) the level and frequency of occurrence of impulsive or tonal noise; (vii) atmospheric conditions including temperature, relative humidity and wind speed and direction; and (viii) effects due to extraneous factors such as traffic noise.
H19	Noise monitoring must also be undertaken to investigate any complaint of intrusive noise upon receipt of a written request from the administering authority to carry out such monitoring.
H20	The method of measurement and reporting of noise levels must comply with the Department of Environment and Heritage Noise Measurement Manual, Second Edition, March 1995, or more recent editions or supplements to that document as become available.
H21	The measurement and reporting of noise levels must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required measurements.
H22	Records must be kept of the results of all monitoring of noise levels and other information required to be recorded in conjunction with such monitoring for a period of at least five (5) years.
H23	**Monitoring Reporting** The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the return are submitted with the Annual Return.

SCHEDULE I - DEFINITIONS

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

(I1) For the purposes of this environmental authority any term not otherwise defined in the Act and any subordinate legislation made pursuant to the Act or in the Definitions Schedule of this Environmental Authority has the meaning conferred to that term in its common usage.

(I2) In the event of any inconsistency arising between the meaning of any term provided in the Definitions Schedule of this Environmental Authority and any common usage of that term, the meaning conferred in the Definitions Schedule of this environmental authority prevails.

(I3) "Act" means the *Environmental Protection Act 1994.*

(I4) "administering authority" means the Environmental Protection Agency or its successor.

(I5) "authorised person" means a person holding office as an authorised person under an appointment under the *Environmental Protection Act 1994* by the chief executive.

(I6) "land" in the Land Application Schedule, means land excluding waters and the atmosphere.

(I7) "mg/L" means milligrams per litre.

(I8) "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

(I9) "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

(I10) "range" means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated.

(I11) "Sodium adsorption ratio" (SAR) means the relative concentration of sodium (Na) to calcium (Ca) and magnesium (Mg) in the soil solution.

(I12) "cfu" means colony forming units.

(I13) "$L_{Amax\ adj,\ T}$" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than fifteen (15) minutes, using Fast response.

(I14) "Max $L_{pA,\ T}$" means the maximum A-weighted sound pressure level measured over a time period of not less than fifteen (15) minutes, using Fast response.

(I15) "Background noise level" means either:

$L_{A90,T}$ being the A-weighted sound pressure level exceeded for ninety percent (90%) of the time period of not less than fifteen (15) minutes, using Fast response, or

$L_{Abg,T}$ being the arithmetic average of the minimum readings measured in the absence of the noise under investigation during a representative time period of not less than fifteen (15) minutes, using Fast response.

(I16) "commercial place" means a place used as an office or for business or commercial purposes.

(I17) "noise sensitive place" means any of the following places:

(a) a dwelling;
(b) a library, childcare centre, kindergarten, school, college, university or other educational institution;
(c) a hospital, surgery or other medical institution;
(d) a protected area, or an area identified under a conservation plan as a critical habitat or an area of major interest, under the *Nature Conservation Act 1992;*
(e) a marine park under the Marine Parks Act 1982;
(f) a park or garden that is open to the public (whether or not on payment of money) for use other than for sport or organised entertainment.

(I18) "dwelling" means any of the following structures or vehicles that are principally used as a residence:
(a) a house, unit, motel, nursing home or other building or part of a building;
(b) a caravan, mobile home or other vehicle or structure on land;
(c) a watercraft in a marina

(I19) "intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -
(a) is clearly audible to, or can be felt by, an individual; and
(b) annoys the individual (In determining what constitutes "annoyance", regard must be had to *Australian Standard 1055.2 - 1989 Acoustics - Description and Measurement of Environmental Noise Part 2 Application to specific situations).*

(I20) "waste" includes any thing that is -
(a) left over, or an unwanted by-product, from an industrial, commercial, domestic or other activity; or
(b) surplus to the industrial, commercial, domestic or other activity generating the waste.

Waste can be a gas, liquid, solid or energy, or a combination of any of them. A thing can be waste whether or not it is of value.

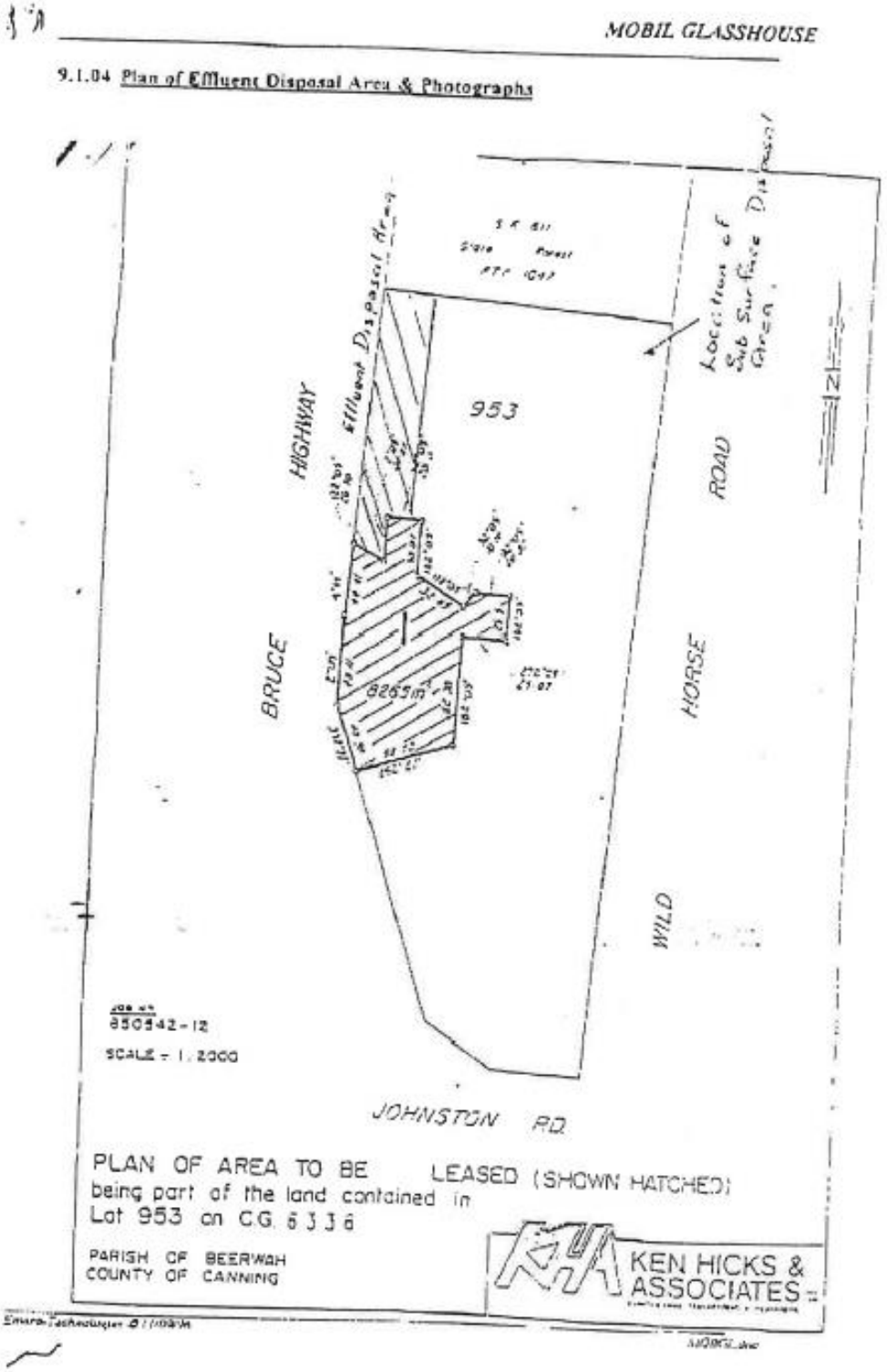
(I21) "regulated waste" means non-domestic waste mentioned in Schedule 7 of the Environmental Protection Regulation 1998 (whether or not it has been treated or immobilised),- and includes-
(i) for an element - any chemical compound containing the element; and
(ii) anything that has contained the waste.

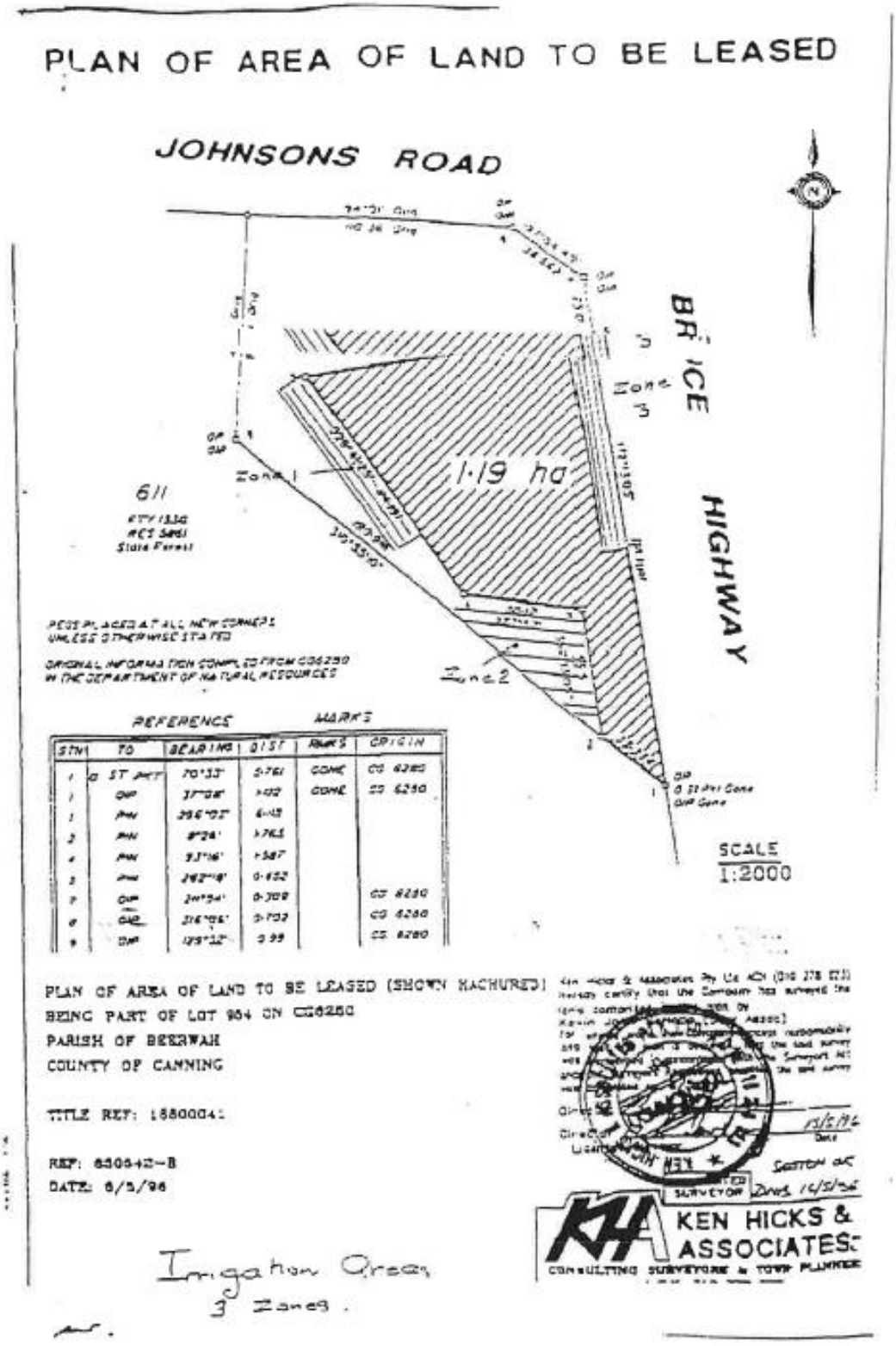
(I22) "noxious" means harmful or injurious to health or physical well-being.

(I23) "offensive" means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

(I24) "environmentally sustainable manner" means a manner in which the likelihood of environmental harm being caused is minimised. The term includes ensuring that the capacity of the irrigation area to assimilate the release of contaminants on an ongoing basis is maintained and that adverse effects to environmental values of waters, ecological health and public amenity and safety are not likely.

SCHEDULE J - PLAN OF DEVELOPMENT





End of Schedule J Plan of Development

END OF ENVIRONMENTAL AUTHORITY