Queensland Government

Department of
Environment and Heritage Protection

08-OCT-2014

To: Seafarm Queensland Pty Ltd
PO Box 7312
CLOISTERS SQUARE PO WA 6850

Our reference: 223630

Application details

I refer to the application that was received by the administering authority on 26-SEP-2014.

Land description: 405 Neames Inlet Road Macknade Lot 9 Plan RP705370, Lot 10 Plan CWL3645.

Decision

Your application has been approved and your environmental authority (reference EPPR00469313) is attached.

You are advised that if you are not the owner of the land to which the environmental authority relates, you have 10 business days from receipt of this environmental authority to give each owner of the land, written notice that you have been issued this environmental authority.

Should you have any further enquiries, please contact Veronica Lightfoot on telephone 1300 130 372 (option 4).

Yours sincerely

	08/10/2014
Signature	Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Veronica Lightfoot
Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Enclosed

Permit - environmental authority (reference EPPR00469313)

Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR00469313

Environmental authority takes effect on 29-SEP-2014.

The anniversary date of this environmental authority remains 29-MAY. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Seafarm Queensland Pty Ltd	Level 11, 255 St Georges Terrace PERTH WA 6000

Environmentally relevant activity and location details

Environmentally relevant activity	Location
1-(1b) Aquaculture >10ha but <100ha land	405 Neames Inlet Road Macknade - Lot 9 Plan RP705370 and Lot 10 Plan CWL3645

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

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

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

08/10/2014

Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Veronica Lightfoot
Permit and Licence Management
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Phone: 1300 130 372
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Email: palm@ehp.qld.gov.au

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)

Conditions of environmental authority

Conditions of approval for this environmental authority are contained within the attached document entitled:

- Conditions of approval

.**Location:** 405 Neames Inlet Road Macknade - Lot 9 Plan RP705370 and Lot 10 Plan CWL364

Relevant activity: 1-(1b) Aquaculture >10ha but <100ha land

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Schedule of conditions

The aforementioned description of the ERA for which this authority is issued is simply a restatement of the activity as prescribed in the legislation at the time of issuing the authority. Where there is any conflict between the above description of the ERA for which this authority is issued and the conditions as specified in this authority as to the scale, intensity or manner of carrying out of the ERA, then such conditions prevail to the extent of the inconsistency.

This licence incorporates the following schedules of conditions relevant to various issues:

- Schedule A - General conditions
- Schedule B - Air
- Schedule C - Water
- Schedule D - Stormwater management
- Schedule E - Land application
- Schedule F - Noise
- Schedule G - Waste management
- Schedule H - Self monitoring and reporting
- Schedule I - Definitions
- Schedule J - Site plans

Schedule A - General conditions

The following conditions are prescribed:

Display of Environmental Authority

A1 A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.

A2 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. For daily, weekly, and monthly records, the record retention requirements of this condition will be satisfied if any daily, weekly or monthly 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.

A3 Copies of any record required to be kept by a condition of this environmental authority must be provided to any authorised person or the administering authority on request.

A4 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 10% or more in the quantity of the contaminant to be released into the environment.

Calibration

A5 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.

Monitoring and Measurements

A6 All determinations of the quality of contaminants released to the environment and all sampling and measurements that are required by this environmental authority must be undertaken by a person or body possessing appropriate experience and qualifications to perform the required determinations and the required measurements.

Number and Area of Ponds

A7 This environmental authority applies to the operation and maintenance of:

(i) aquaculture ponds having a combined total area of not greater than 32 hectares and a combined total volume of not greater than 480 000 m^3; and

(ii) an on-farm wastewater retention and treatment system, of at least 3.2 hectares and a volume of at least 48 000 m^3 (10% of the surface area and volume of the growout ponds), designed to remove suspended particulates and nutrients dissolved in water releases from growout ponds.

A8 Notwithstanding the effect of condition A7, ponds to be used for the purpose of aquaculture must be sited above the Highest Astronomical Tide.

Competency

A9 The holder of this environmental authority shall ensure that the operation and maintenance of the aquaculture facility is carried out by or under the supervision of person(s) competent to operate and maintain the facility.

Site-Based Management Plan

A10 Prior to the commencement of any pond construction or discharge canal construction, the holder of this environmental authority must:

(a) develop a Site-Based Management Plan which provides for the following functions:

(i) routine operating procedures to prevent or minimise environmental harm; and
(ii) maintenance practices and procedures for the activity; and
(iii) contingency plans and emergency procedures to deal with foreseeable risks and hazards; and
(iv) monitoring of the release of contaminants into the environment; and
(v) assessment of the environmental impact of any releases of contaminants into the environment; and
(vi) implementation of an acid sulphate management plan; and
(vii) handling of environmental complaints; and
(viii) keeping and producing environmental records and reports; and
(ix) recording and tracking, storage and handling, disposal and reuse of wastes generated; and
(x) staff training and awareness of environmental issues; and
(xi) a post-closure plan for rehabilitation, care and maintenance of the disturbed area; and
(xii) reporting arrangements to be submitted with the annual return, on the effectiveness of the environmental management of the activities; and
(xiii) the development of all other plans required by this environmental authority.

(b) lodge a detailed description of the Site-Based Management Plan and its documentation with the administering authority for its review and comment; and

(c) have due regard to that comment in the finalisation of the Site-Based Management Plan; and

(d) Complete and commence implementation of the Site-Based Management Plan.

A11 A copy of the Site-Based Management Plan must be kept in a location readily accessible to personnel carrying out the activity.

A12 The holder of this environmental authority must submit details of any amendment to the Site-Based Management Plan to the administering authority with the annual return which immediately follows the enactment of any such amendment.

Financial Assurance

A13 A financial assurance must be provided to the administering authority in compliance with the following requirements:

(a) Prior to the commencement of any pond construction or any other infrastructure associated with an aquaculture facility, the holder of this environmental authority must provide and maintain a financial assurance security in the form of an irrevocable, unconditional and on demand bank guarantee in favour of the administering authority in the amount of:

1. $108, 000; or

2. $72, 000 provided the following provisions are met:

2.1 the top 100 mm of topsoil must be stockpiled and stabilised with appropriate vegetation during pond and infrastructure construction for re-use during site rehabilitation when the activity ceases; and

2.2 the stockpiled topsoil must be limed appropriately to neutralise any possible impacts from actual or potential acid sulphate soils; and

2.3 a draft topsoil management plan for the location and method for stockpiling and stabilisation must be submitted to the administering authority for its review and comment; and

2.4 have due regard to that comment in the finalisation of the topsoil management plan prior to pond or infrastructure construction.

(b) Every five years from the issue of this environmental authority, the financial assurance is subject to review and consumer price index adjustments to ensure the full cost of rehabilitation can be borne by the amount stated in the bank guarantee.

(c) The financial assurance must be maintained until the administering authority is satisfied that no claim is likely to be made on the assurance.

END OF CONDITIONS FOR SCHEDULE A

Schedule B - Air

The following conditions are prescribed:

B1 Except as otherwise provided by the conditions of this licence, the environmentally relevant activity must be carried out by such practicable means necessary to prevent or minimise the release or likelihood of release of contaminants to the atmosphere.

END OF CONDITIONS FOR SCHEDULE B

Schedule C - Water

The following conditions are prescribed:

Release of Contaminants to Waters

C1 Contaminants must not be directly or indirectly released from the licensed place to any waters or the beds and banks of any waters except as permitted under Schedule C or Schedule D, or to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.

Release Points

C2 Contaminants must not be directly or indirectly released from any source on the licensed place to any waters at any location other than the contaminants and sources at the locations listed below:

Release point W1 - Aquaculture wastewaters from the discharge structure (drop box) at the distal end of the discharge canal into the Seymour River, having first passed through the wastewater retention and treatment system.

C3 Notwithstanding any other condition of this environmental authority, the wastewater must be directed from the discharge structure in a manner which does not erode or otherwise disturb mangrove vegetation, the stream bed, the stream banks or the habitat in general.

Quantity of Contaminants Released

C4 For the full permitted development of 32 ha of growout ponds, the total quantity of contaminants released from release point W1 during any day must not exceed 19 200 cubic metres. The total release volume of waste water from release point W1 during any year must not exceed 7 000 000 cubic metres.

C5 Notwithstanding condition C5, should a staged development of the project be undertaken or less than the full area of ponds be in operation as part of the growout production cycle:

(i) the volume of wastewater discharged during any day; and
(ii) the total volume of wastewater discharged during any year;

must be reduced proportionally according to the total area of growout ponds in operation.

C6 On any day, the release of contaminants from release point W1 must only occur starting after the time of local high water and cease before the time of the next local low water.

C7 The discharge point serving release point number W1 must be submerged such that the top of the outfall pipe is at least 0.5 metres below Low Water Datum or as otherwise approved under s86 of the *Harbours Act 1955.*

Quality Characteristics of Release to Waters

C8 The release of contaminants to waters must comply, at the sampling and in situ monitoring point/s specified in Schedule H, with each of the limits specified in Schedule C Table 1 for each quality characteristic.

Schedule C Table 1 -
Release Quality Characteristic Limits

Quality Characteristics	Release Point	Discharge Limit	Limit Type
Suspended Solids (mg/L)	W1	20/100	Mean/Maximum
pH (pH Units)	W1	6.5 - 8.7	Range
Dissolved Oxygen (mg/L)	W1	4.0	Minimum
Total Nitrogen (mg/L)	W1	0.8/3.0	Mean/Maximum
Chlorophyll *a* (µg/L)	W1	20/100	
Total Phosphorus as P (mg/L)	W1	0.1/0.3	

(Note) For all parameters in Table 1, except dissolved oxygen concentration, where a mean and maximum limit is specified, the set of data describing the release quality characteristics must have a mean lower in value than the mean limit and a maximum lower in value than the maximum limit.

C9 Notwithstanding any other condition of the environmental authority, any release of contaminants to water must not produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other objectionable matter.

END OF CONDITIONS FOR SCHEDULE C

Schedule D - Stormwater management

The following conditions are prescribed:

Stormwater Management Plan

D1 As a component of the site-based management plan required in condition A10, the holder of this environmental authority must develop and implement a Stormwater Management Plan which provides for the following functions:

(i) avoidance and minimisation of contaminated stormwater; and
(ii) reuse, treatment and disposal of contaminated stormwater.

D2 A copy of the Stormwater Management Plan must be kept at the licensed place.

Bunding (Spillage Control)

D3 All liquid chemical and petroleum product storage must be within a spillage control compound sufficient to contain at least 100% of the largest storage container plus 10% of the second largest container within the compound.

D4 All spillage control compounds must be constructed and maintained so as to be sufficiently impervious to allow retention and recovery of any materials being stored within the compound.

D5 All solid chemical storage and handling areas must be within a spillage control compound sufficient to contain at least 100% of the capacity of the largest package plus 25% of the storage capacity up to 10 000 litres, together with 10% of the storage capacity beyond 10 000 litres.

D6 Notwithstanding condition D5, floors forming part of the spillage control compound for the chemical package storage and handling areas must be impervious and not liable to degradation.

D7 Where it is impractical to completely roof a bunded area, the holder of this environmental authority must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.

D8 Washing, degreasing, servicing or other maintenance of vehicles, plant, or other equipment must not occur on the licensed place in any area where resulting contaminants will or may be released to any stormwater drain, land or waters.

Stormwater Contamination from Excavation of Acid Sulfate Soils

D9 Materials likely to have properties of potential or actual acid sulfate soils must be treated and/or placed in such a state and/or condition such that the pH value of stormwater runoff and/or leachate from the materials is not less than 6.0 and not greater than 9.0.

Pond Sediment Conditioning Areas

D10 Runoff from the two pond sediment conditioning areas must be directed in such a manner as to be retained within the licensed premises or in such a manner as to ensure that runoff does not directly enter natural waterways without first passing through the treatment system.

END OF CONDITIONS FOR SCHEDULE D

Schedule E - Land application

The following conditions are prescribed:

Release of Contaminants to Land

E1 Pond sediment removed from growout ponds must only be stored in bunded pond sediment conditioning areas.

Acid Sulfate Soils Management

E2 Materials likely to have the properties of potential acid sulfate soils, present on the licensed premises or exposed and/or worked during the construction and operation of the aquaculture facility, must be managed according the following hierarchy:

(i) avoid exposure of potential acid sulfate soils;
(ii) prevent or minimisation the oxidation of sulphides;
(iii) provide for treatment of acid sulfate soils;
(iv) contain potential acid sulfate soils in secure areas.

E3 The Acid Sulfate Soil Management Plan prepared by Golder Associates and submitted to the Department in December 1997 and the subsequent amendment of 16 November 1998 must be implemented at the commencement of pond construction or construction of the discharge drain to the Seymour River.

END OF CONDITIONS FOR SCHEDULE E

Schedule F - Noise

The following conditions are prescribed:

Noise Complaints

F1 Upon receipt of a complaint regarding the emission of noise the holder of this environmental authority must, within a reasonable period of time:

(a) take any actions necessary to resolve the complaint including the use of appropriate dispute resolution if required; or
(b) implement noise abatement measures until emissions of noise from the activity does not result in sound pressure levels at the affected noise sensitive place greater than those specified in Schedule F Table 1.

Schedule F - Table 1
Noise Limits

Sound Pressure Level	Period	
	7am to 6pm	6pm to 7am
L_{eq}	50	45
L_{max}	55	50

F2 For the purposes of determining compliance with the limits specified in Schedule F Table 1:

(a) the sound pressure level should not exceed the level specified measured over any 15 minute period that is representative of the noise being investigated;
(b) the measurement location is 4.0 metres (± 0.5 metres) outside the part of the place most affected by the noise under investigation.

F3 All determinations of noise emissions as required by conditions F1 and F2 must be carried out in accordance with the Department of Environment and Heritage's Noise Measurement Manual, second edition, March 1995, or more recent additions or supplements to that document as they become available.

END OF CONDITIONS FOR SCHEDULE F

Schedule G - Waste management

The following conditions are prescribed:

General

G1 The holder of this environmental authority must not:

(i) allow waste to burn or be burned at or on the licensed place; nor
(ii) remove waste from the licensed place and burn such waste elsewhere.

G2 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.

Disposal of Biological Waste

G3 The holder of this environmental authority must ensure that diseased organisms and/or affected waters which require disposal, must not be released to waters and must be disposed of at a facility which can lawfully accept such wastes.

G4 Where diseased organisms and/or affected water requires disposal, the holder of this environmental authority must monitor and keep records of the following:

(a) the date, quantity and type of waste disposed of; and
(b) name of the waste transporter and/or disposal operator that removed the waste; and
(c) the intended treatment/disposal destination of the waste.

Food Conversion Ratio

G5 A report must be submitted to the administering authority with the annual return on the tonnage of feed and fertiliser added to ponds at the licensed premises during the annual licence period, including information on the nitrogen, phosphorus and carbon content and the mean feed conversion ratio and tonnage of harvested prawns for the same period.

END OF CONDITIONS FOR SCHEDULE G

Schedule H - Self monitoring and reporting

The following conditions are prescribed:

Complaint Recording

H1 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:

(a) time, date and nature of complaint;
(b) type of communication (telephone, letter, personal etc.);
(c) 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);
(d) response and investigation undertaken as a result of the complaint;
(e) name of person responsible for investigating complaint; and
(f) action taken as a result of the complaint investigation and signature of responsible person.

Incident Recording

H2 A record must be maintained of at least the following events:

(a) the time, date and duration of equipment malfunctions where the failure of such equipment resulted in the release of contaminants reasonably likely to cause environmental harm;
(b) any shut-downs of treatment systems; and
(c) any disease outbreak in any growout pond.

Notification of Emergencies and Incidents

H3 Where the holder of this environmental authority has not given notification to the administering authority under Section 320 of the Environmental Protection Act, 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.

H4 Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the Environmental Protection Act, the notification of emergencies or incidents as required by condition number H3 must include but not be limited to the following:

(a) The holder of the environmental authority;
(b) the location of the emergency or incident;
(c) the number of the environmental authority;
(d) the name and telephone number of the designated contact person;
(e) the time of the release;
(f) the time the holder of the environmental authority became aware of the release;
(g) the suspected cause of the release;
(h) the environmental harm and or environmental nuisance caused, threatened, or to be caused by the release; and
(i) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.

H5 Not more than 14 days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition number H4 in addition to:

(a) proposed actions to prevent a recurrence of the emergency or incident;
(b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance, and
(c) the results of any environmental monitoring performed.

Monitoring of Contaminant Releases to Waters

H6 Monitoring the quality of contaminants released to waters must include but not be limited to, samples taken at a time when maximum flow rate is occurring from the outlet.

H7 The holder of this environmental authority is responsible for the making of determinations and keeping of records of the details of sampling and the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Table 1 and Schedule H Table 2.

Sampling and Monitoring Point Details

H8 Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in Schedule C of this environmental authority must be undertaken at the sampling and in situ monitoring point(s) described as:

Monitoring Point M1 - Aquaculture wastewaters from the discharge structure (drop box) at the distal end of the discharge canal into the Seymour River, the wastewater having first passed through the wastewater retention and treatment system.

Schedule H - Table 1

Quality Characteristic Determination	Monitoring Point	Frequency
Suspended Solids	M1	*once per month in each month that a release occurs*
pH	M1	*on each day that a release occurs*
Dissolved Oxygen	M1	
Turbidity	M1	
Total Nitrogen as N	M1	*once per month in each month that a release occurs*
Chlorophyll a	M1	
Total Phosphorus as P	M1	

Harvest Monitoring

H9 The holder of this environmental authority is responsible for determining the quality of the contaminants released from the Release Point (W1) during harvest by determining those quality characteristics specified in Schedule H Table 2, at the Monitoring Point specified in that table and at the frequency specified in that table:

Schedule H - Table 2

Quality Characteristic Determination	Monitoring Points	Frequency
Suspended Solids (mg/L)	M1	*one sample each during the first, last and median hour of pond harvest during one run per year*
Turbidity (ntu)	M1	*during each hour of pond harvest during all runs*

H10 All sampling and determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.

H11 Samples for determination of quality of contaminants released must be taken, at least, in duplicate. The duplicate must be stored appropriately and analysed if:

(a) the primary sample is destroyed or otherwise rendered unsuitable for analysis before an accurate analytical result is obtained; or
(b) the analysis of the primary sample is not considered to be accurate.

Monitoring of Volume of Wastewater Released

H12 The daily quantity of contaminants released must be determined by a method which is accurate to within 5% of the actual amount released.

Note: A flow meter in the discharge pipe exiting the treatment system would fulfil the requirements of condition H12

H13 Records must be kept of the results of all determinations of the quality and quantity of contaminants released to waters for a period of at least three (3) years.

Report Submission

H14 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.

Impact Monitoring

H15 An Environmental Impact Monitoring Program (using a 'control' versus 'impact' experimental design) must be undertaken in appropriate creeks, rivers and estuaries around the Seymour River system adjacent to the licensed premises to determine:

(a) any change in the mean variation of appropriate water quality indicators along intake and discharge points due to operation of the activity; and
(b) changes in levels of ecological indicators in natural, representative biological systems due to operation of the activity.

Such a program must be designed to detect a proscribed change with a 90% certainty of detecting such a change, if one exists. Should such a program determine a proscribed change in excess of 20% of the mean variation of the water quality indicators or representative biological systems selected, the holder of this environmental authority must notify the administering authority in writing within 28 days of the completion of analysis.

H16 Prior to the commencement of pond construction, the holder of this environmental authority must:

(a) lodge a detailed description of the Environmental Impact Monitoring Program detailing the content and plans to the administering authority, for its review and comment; and
(b) have due regard to that comment in the finalisation of the Environmental Impact Monitoring Program; and
(c) develop and implement the Environmental Impact Monitoring Program.

Exception Reporting

H17 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 28 days of completion of analysis.

H18 The written notification required by condition number H17 above must include:

(i) The full analysis results, and
(ii) Details of investigation or corrective actions taken, and
(iii) Any subsequent analysis.

END OF CONDITIONS FOR SCHEDULE H

Schedule I - Definitions

Words and phrases used throughout this licence.

Some of the words and phrases used throughout this licence are defined below:

I1 "licensed premises/place" means aquaculture activities on land described as Lot 9, Plan 3645, County of Cardwell, Parish of Marathon and Lot 10, Plan 5370, County of Cardwell, Parish of Marathon

I2 The holder of this environmental authority means Rossenmary Pty Ltd.

I3 "administering authority" means Environmental Protection Agency or its successor.

I4 "Total Nitrogen" means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen

I5 "mg/L" means milligrams per litre.

I6 "µg/L" means micrograms per litre.

I7 "median" means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values.

I8 "mean" means the arithmetic average of more than three samples.

I9 "maximum" means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.

I10 "minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

I11 "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.

I12 "appropriate dispute resolution" means allowing parties in dispute about an alleged or potential noise nuisance to discuss the matter without threat of legal action. Disputes caused through noise may be discussed in conference:

(a) at a dispute centre under the *Dispute Resolution Centre Act 1990*;
(b) with a National Dispute Centre approved mediator;
(c) with a Queensland Law Society approved mediator;
(d) by a professional service offering independent mediation or dispute resolution conference process; or
(e) by an administering authority or industry organisation offering an independent mediation or dispute resolution conference process.

I13 "L_{eq}" means the equivalent continuous A-weighted sound pressure level adjusted for noise character and measured over a time period of not less than 15 minutes using fast response.

I14 "L_{max}" means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using fast response.

I15 "noise sensitive place" means any of the following places:

(a) a dwelling located at a place zoned for residential purposes;
(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 Park 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.

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

END OF CONDITIONS FOR SCHEDULE I

Schedule J - Site plans
Site plans are not required

END OF CONDITIONS FOR SCHEDULE J

END OF ENVIRONMENTAL AUTHORITY

END OF PERMIT