ecoaccess
environmental licences and permits

Registration certificate

Environmental Protection Act 1994

Certificate of Registration

No: ENRE00962909

This registration certificate is issued by the administering authority and is a replacement document for the original approval issued on: 18 September 1998.

The anniversary day for the purposes of the Annual Return remains: 5 October.

This registration certificate is a requirement of section 73F of the *Environmental Protection Act 1994* and authorises the registered operator to undertake the activity listed below at the following place subject to the conditions set out in a development approval attached to the premises, or the relevant code of environmental compliance.

Registered Operator:-
Goldiland Pty Ltd
Lot 1 Greenhills Road
ILBILBIE QLD 4738

Place:-
Lot 7 Plan SP105589
Located at:-
Armstrongs Beach Road, Armstrongs Beach,SARINA QLD 4737

Registered Activity/ies: -
ERA 1 Aquaculture Threshold 1(b) - cultivating or holding crustaceans in enclosures that are on land and have a total area of more than 10ha to 100ha

Delegate
Administering authority
Environmental Protection Act 1994
19/11/09

Licence No. NM 118

Section 45(1)

Under the provisions of the *Environmental Protection Act 1994* this environmental authority is issued:

To: Goldiland Pty Ltd
Address: 6 Emerald Place
RUNCORN QLD 4113

in respect of carrying out the environmentally relevant activity/ies:

1(e) Aquaculture - cultivating or holding marine estuarine or freshwater organisms (other than molluscs) in ponds or enclosures in waters if the total area of ponds and enclosures is 20 ha or more and wastes are released to waters

34 Seafood Processing - commercially processing seafood, including removing the scales, gills, intestines or shells, filleting, chilling, freezing or packaging seafood in works having a design production capacity of more than 100 tonnes per year

being carried out on land described as:

Lot 7 Plan SP 105589 Parish of Sarina County of Carlisle

at premises located at:

Armstrongs Beach Road, Armstrongs Beach via Sarina.

This environmental authority is issued subject to the conditions set out in the schedules attached to this environmental authority.

This licence takes effect from 5 October 1998.

signed M. A. Card

Margaret Card
Acting Regional Director
Delegate of Administering Authority
Environmental Protection Act 1994

date 18/9/98

This environmental authority consists of the following schedules-

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

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SCHEDULE A - GENERAL CONDITIONS

Display of Environmental Authority

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

Records

(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 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.

Alterations

(A3) 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 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.

Monitoring and Measurements

(A4) All determinations of the quality of contaminants released to the environment and all measurement and reporting of noise levels 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

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.

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Integrated Environmental Management System (IEMS)

(A6) The holder of this environmental authority must:

(a) develop and implement an Integrated Environmental Management System which provides for the following functions:

(i) the monitoring of releases of contaminants into the environment and an environmental assessment of the releases; and
(ii) staff training and awareness of environmental issues; and
(iii) the conduct of environmental and energy audits; and
(iv) waste prevention, treatment and disposal; and

(b) on or before 12 months form the date of issue of this environmental authority, have completed and implemented the Integrated Environmental Management System; and

(c) on or before 10 months of the date of issue of this environmental authority lodge a detailed description of the Integrated Environmental Management System and its documentation with the administering authority for its review and comment, including the final farm plan, pond layout and design; and

(d) have due regard to that comment in the finalisation of the Integrated Environmental Management System.

(A7) A copy of the Integrated Environmental Management System must be kept in a location readily accessible to personnel carrying out the activity.

Number and Area of Ponds

(A8) This environmental authority applies to the operation of:

a) not more than 30 aquaculture ponds having a combined total area of not greater than 50 hectares; and,
b) a wastewater treatment pond(s) designed to retain wastewaters, for at least 24 hours, to remove particulates suspended and nutrients dissolved in water released from growout ponds.

(A9) Notwithstanding the effect of condition (A8), ponds to be used for the purpose of aquaculture must be sited above the level of the Highest Astronomical Tide.

Competency

(A10) The licensee shall ensure that the operation and maintenance of the aquaculture facility is carried out by or under the supervision of a person competent to operate and maintain the aquaculture facility.

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End of Conditions for Schedule A

SCHEDULE B - AIR

Nil Conditions

End of Conditions for Schedule B

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SCHEDULE C – WATER

Release of Contaminants to Waters

(C1) The only contaminants permitted to be released from the licensed place at the release point W1 are aquaculture and seafood processing waste from the aquaculture and seafood processing waste treatment systems.

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 and Seafood Processing wastes from the discharge structure of the waste treatment system into Boundary Creek

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

Quantity of Contaminants released

(C4) The total quantity of contaminants released from release point W1 during any day must not exceed 75,000 cubic meters. The total quantity of contaminants released from release point W1 during any year must not exceed an average daily quantity of 37,500 cubic meters.

(C5) Should a staged development of the project be undertaken or less than the full number of ponds be in operation at one time, the quantity of wastes discharged during any day, the total quantity of wastes discharged during one calendar year and the average flow per day must be reduced appropriately for the number of ponds operating and the production cycle operating on site.

Quality Characteristics Of Release to Waters

(C6) The release of contaminants to waters must comply, at the sampling and in-situ measurement point/s specified in Schedule H Table 1, with each of the limits specified in Schedule C Table 1 for each quality characteristic.

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SCHEDULE C TABLE 1 - RELEASE QUALITY CHARACTERISTIC LIMITS

QUALITY CHARACTERISTICS	RELEASE POINT	DISCHARGE LIMIT	LIMIT TYPE
Suspended Solids (mg/L)	*W1*	*25/100*	*Mean*/Maximum*
pH (pH Units)	*W1*	*6.5 - 8.5*	*Range*
Dissolved Oxygen (mg/L)	*W1*	*4.0*	*Minimum*
Total Nitrogen (mg/L)	*W1*	*0.8/2.0*	*Mean*/Maximum*
Chlorophyll *a* (µg/L)	*W1*	*15/100*	*Mean*/Maximum*
Total Phosphorus as P (mg/L)	*W1*	*0.4*	*Maximum*

(* limit calculated from 7 consecutive samples)

(C7) Notwithstanding any other condition of this environmental authority, any release of contaminants to waters 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.

Times of Release

(C8) On each day that a release is made, the release of contaminants to waters must only occur from 3 hours before the local high water for a period no more than 6 hours.

End of Conditions for Schedule C

M.P.C. 19/98

SCHEDULE D – STORMWATER MANAGEMENT

Stormwater Management Plan

(D1) The holder of this environment authority must:

(a) 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; and

(b) on or before **1 July 1999,** have completed and implemented the Stormwater Management Plan.

(D2) A copy of the Stormwater Management Plan must be kept at the licensed place where practical.

Pond Sediment Conditioning Areas

(D3) Runoff from pond sediment conditioning areas must be directed in such a manner as to be retained within the catchment of the discharge channel or in such other manner as to ensure that runoff does not directly enter natural waterways.

(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. *(Note: Storage of Flammable and Combustible Liquids should be in compliance with AS1940 for the Storage of Flammable and Combustible Liquids).*

(D5) 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.

Runoff derived from Potential Acid Sulfate Soils

(D6) Materials likely to have the properties of potential 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 material is not less than 6.0 and not greater than 9.0 and the total aluminium content of the runoff from the material does not exceed a value of 100 micrograms per litre.

End of Conditions for Schedule D

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SCHEDULE E – LAND APPLICATION

Release of Contaminants to Land

(E1) The release of pond sediment to land must only occur in pond sediment storage areas which will ensure compliance with condition D3.

Potential Acid Sulfate Soils

(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 of the aquaculture facility, must be managed during the operation of the licensed activity in a way which:

(i) avoids exposure of potential acid sulfate soils;
(ii) prevents or minimises the oxidation of sulfides;
(iii) provides for treatment of acid sulfate soils;
(iv) contains potential acid sulfate soils in secure areas.

End of Conditions for Schedule E

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SCHEDULE F – NOISE

Emission of Noise

(F1) In the event of a complaint about noise that constitutes annoyance being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the licensed place muse not result in levels greater than those specified in Table 1 of the Noise Schedule.

SCHEDULE F TABLE 1

NOISE LIMITS AT A NOISE SENSITIVE PLACE	
Period	***Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level*** $L_{Amax\ adj,\ T}$
7 am – 6 pm	Background noise level plus 5 dB(A)
6 pm – 10 pm	Background noise level plus 5 dB(A)
10 pm – 7 am	Background noise level plus 3 dB(A)
NOISE LIMITS AT A COMMERCIAL PLACE	
Period	***Noise Level at a Commercial Place measured as the Adjusted Maximum Sound Pressure Level*** $L_{Amax\ adj,\ T}$
7 am – 6 pm	Background noise level plus 10 dB(A)
6 pm – 10 pm	Background noise level plus 10 dB(A)
10 pm – 7 am	Background noise level plus 8 dB(A)

End of Conditions for Schedule F

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SCHEDULE G – WASTE MANAGEMENT

Waste Management Plan

Off Site Movement

(G1) 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:

(a) the date, quantity and type of waste removed; 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.

(G2) By **1 July, 1999** the holder of this environmental authority, must develop and implement a Waste Management Plan which details how the holder of this environmental authority will effectively and appropriately manage waste caused by the carrying out the environmentally relevant activity/activities.

(G3) In developing the Waste Management Plan and periodically updating it to incorporate changing practices and future options, the holder of the environmental authority must have regard to the following hierarchy of preferred methods of dealing with waste. Where reasonable and practicable, the method of dealing with waste which is higher in the hierarchy must be adopted over another method which lower in the hierarchy.

Hierarchy of methods of dealing with waste.

The most preferred method is method (1)

(1) Avoid the generation of waste in the first place, for example by utilising alternate materials and or processes.

(2) Minimise the quantity and or hazardous nature of the waste generated, for example by utilising alternate materials and or processes and segregation of high strength waste streams from low strength waste streams.

(3) Recycling of waste produced, for example by incorporating reuse, reprocessing, and utilising of the waste for a worthwhile purpose.

(4) Treatment of the waste to render it less or non-hazardous.

(5) Disposal of the contaminated stormwater as a last resort.

The least preferred method is method (5)

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(G4) The Waste Management Plan must detail at least the following:

(a) The source, quantity and nature of each waste produced, and

(b) The current method of disposal, and

(c) Proposed methods of pre-treatment or disposal, and

(d) Expected reduction in quantity of waste produced through waste minimisation and cleaner production, and

(e) Provisions for carrying out and submitting to the administering authority a waste audit within 2 years from the date of issue of this environmental authority and thereafter every 5 years.

(G5) A copy of the Waste Management Plan must be provided to the administering authority within 30 days of its completion.

(G6) A copy of the Waste Management Plan must be kept at the licensed place.

(G7) The holder of this environmental authority must not implement a Waste Management Plan or amend a Waste Management Plan where such implementation or amendment would result in a contravention of any condition of this environmental authority.

(G8) The holder of this environmental authority must submit details of any amendment to the Waste Management Plan to the administering authority with the Annual Return which immediately follows the enactment of any such amendment.

(G9) The holder of this environmental authority must prepare a report summarising the outcomes of any waste audit required by condition G4 and submit the report with the annual return which follows the conduct of the audit.

(G10) A report must be made to the administering authority 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 of that feed and fertiliser and the mean feed conversion ratio or tonnage of harvested prawns for the same period.

End of Conditions for Schedule G

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SCHEDULE H - SELF MONITORING AND REPORTING

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 in a log book 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.

Incident Recording

(H2) A record must be maintained of events including but not limited to:

(i) the time date and duration of equipment malfunctions where failure of such equipment may result in environmental contamination'
(ii) any shut-downs of treatment systems
(iii) any disease outbreak in any growout pond

Notification of Emergencies and Incidents

(H3) 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, facsimile or submission of a program notice in accordance with Section 101 of the Act.

(H4) The notification of emergencies or incidents are as required by condition number H3 must include but not be limited to the following:

(i) The holder of the environmental authority;
(ii) the location of the emergency or incident;
(iii) the number of the environmental authority;
(iv) the name and telephone number of the designated contact person;
(v) the time of the release;
(vi) the time the holder of the environmental authority became aware of the release;
(vii) the suspected cause of the release;

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(viii) the environmental harm and or environmental nuisance caused, threatened, or suspected to be caused by the release; and
(ix) actions taken to prevent further any release and mitigate any environmental harm and or environmental nuisance caused by the release.

(H5) Not more than 3 months 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:

(i) proposed actions to prevent a recurrence of the emergency or incident,
(ii) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental monitoring performed.
(iii) the results of any environmental monitoring performed.

(H6) A draft environmental management program, dealing with the activity submitted to the administering authority for approval, fulfils the requirements of condition number (H5)(i).

Monitoring of Contaminant Releases of Waters

(H7) Monitoring the quality of contaminants release to waters must include, but not be limited to, samples taken at the time when maximum flow rate is occurring from the outlet.

(H8) The holder of this environmental authority is responsible for the making of determinations and keeping of records of the quality of the contaminants released for the release points, quality characteristics, and at the frequency specified in Schedule H Tables 1 and 2.

Sampling and Monitoring Point Details

(H9) Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in the Water Schedule of this environmental authority must be undertaken at the sampling and measurement point(s) described as:

W1 -the discharge structure of the waste treatment system into Boundary Creek at a point described in the Environmental Report figure 4.1.

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Schedule H - Table 1

QUALITY CHARACTERISTIC DETERMINATION	SAMPLING AND MEASUREMENT POINT	FREQUENCY
Suspended solids	W1	once per month in each month that a release occurs
Total Nitrogen as N	W1	once per month in each month that a release occurs
Chlorophyll *a*	W1	once per month in each month that a release occurs
Secchi Depth	W1	once per day on each day that a release occurs
Total Phosphorus as P	W1	once per month in each month that a release occurs

(H10) Samples for determination of quality of contaminants released must be taken, at least, in duplicate and the duplicate sample must be analysed if:

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

(H11) All determination 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 addition or supplements to that document as such become available.

(H12) All determination of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications of perform the required measurements.

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Schedule H - Table 2

Quality Characteristic Determination	Release Points	Frequency
Suspended Solids (mg/L) Secchi Depth (m)	W1	*hourly sampling for a period of 24 hours, beginning at a time lagged by the travel time of waters through the treatment system, centred around the median hour, after the draining-harvesting of pond(s) for, at least, 1 period during the first year after commencement of operation; and, the above measurements after the draining-harvesting of pond(s) for, at least, 2 periods during any future year in which there is an increase in the productive area of the farm.*
Turbidity (ntu) Dissolved Oxygen (mg/L; %sat.) Temperature (deg C) Salinity (ppt) pH	W1	*continuous data logging for a period of 24 hours, beginning at a time lagged by the travel time of waters through the treatment system, centred around the median hour, after the draining-harvesting of pond(s) for, at least, 1 period during the first year after commencement of operation i.e. for the same harvests as for suspended solids (above); and, the above measurements after the draining-harvesting of pond(s) for, at least, 2 periods during any future year in which there is an increase in the productive area of the farm i.e. for the same periods as for suspended solids (above).*

Monitoring of Volume of Release

(H13) The daily quantity of contaminants released must be determined by a method which is accurate to within 5% of the actual amount released.

(H14) Records must be kept of the results of all determinations of daily quantity of contaminants released to waters.

Impact Monitoring

(H15) Environmental Monitoring Program, as detailed in Section 13.1.2 of the Environmental Report must be undertaken, in relevant creeks adjacent to the licensed premises, to determine:

(a) any changes in the mean and variance of appropriate water quality indicators along Boundary Creek due to Goldiland Pty Ltd's operations, and;

(b) any changes in the mean abundance and distribution of representative natural biological communities of more than 20% due to Goldiland Pty Ltd's operations, including monitoring and assessment of mangroves and seagrass in relation to the findings of the baseline study and 'control' sites.

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Report Submission

(H16) 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.

Exception Reporting

(H17) The holder of this environmental authority must notify 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 by condition number H17 above must include:

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

(H19) Submission of a program notice in accordance with Section 101 of the Act fulfils the requirements of condition numbers H17 and H18.

End of Conditions for Schedule H

M.A.L. 18/9/98

SCHEDULE I - DEFINITIONS

For the purpose of this environmental authority the following definitions apply:

(I1) "Act" means the Environmental Protection Act 1994.

(I2) "Administering Authority" means the Department of Environment of it successor.

(I3) "Land" means land excluding waters and the atmosphere.

(I4) "mg/L" means milligrams per litre.

(I5) "µg/L" mean micrograms per litre.

(I6) "mean" means the arithmetic average of seven consecutive monthly samples

(I7) "maximum" means that the measured valued of the quality characteristic or contaminant must not be greater than the release limit stated.

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

(I9) "range" means that the measured valued of the quality characteristic or contaminant must not be greater then the higher release limit stated nor lower then the lower release limit stated.

(I10) "bund" means an embankment or wall which may form part of all of the perimeter of a compound.

(I11) "$L_{amax\ adj,\ T}$" mean 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.

(I12) "Background noise level" means either:

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

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

(I13) "$MaxL_{\ pA,\ T}$" means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response.

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(I14) "noise sensitive place" means -

(a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
(b) a motel, hotel or hostel; or
(c) a medical centre or hospital; or
(d) a kindergarten, school, university or other education institution; or
(e) a protected area; or
(f) a public park or gardens.

(I15) "commercial place" means a place used as an office or for business or commercial purposes.

End of Conditions for Schedule I

END OF ENVIRONMENTAL AUTHORITY

M.A.L. 18/9/98