Permit

Environmental Protection Act 1994

Environmental authority EPPR00390913

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

Environmental authority number: EPPR00390913

Environmental authority takes effect on 7 January 2021

The anniversary date of this environmental authority is 13 May each year.

Environmental authority holder(s)

Name(s)	Registered address
Sealord King Reef Pty Ltd	188 Cowley Creek Road, Cowley Creek

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 1(2)(b) Cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of more than 10ha but not more than 100ha.	Site 2 – Bruce Highway Mourilyan Lot 144 Plan SP257024
ERA 1(2)(b) Cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of more than 10ha but not more than 100ha.	Site 3 - Cowley Creek Lot 1 Plan RP721954, Lot 2 Plan CP886368, Lot 1 Plan NR5347; and Lot 295 Plan RP814124

Queensland Government

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 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).

Transitional environmental program

A Transitional Environmental Program (TEP) relates to this environmental authority and is currently in force until 24 January 2016. The holder of this environmental authority is also the holder of the TEP.

In accordance with section 349 of the **EP** Act, the holder of an approval **for** a **TEP** must achieve full compliance with the EP Act for the matters dealt with by the TEP at the end of the period over which the **TEP** is carried out. Furthermore, in accordance with section 432 of the **EP** Act, it is an offence to contravene a requirement of the **TEP.**

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’.

Amanda Gray
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 07 January 2021

Enquiries:
Coastal and Marine Assessment
Department of Environment and Science

Phone: 1300 130 372
Email: palm@des.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

- This environmental authority consists of the following part(s):

Applicable Part	Environmentally relevant activities	Location
PART 1	ERA —1 Aquaculture threshold (2b) - cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of more than 10ha but not more than 100ha	Site 2 - Bruce Highway Mourilyan Lot 144 Plan SP257024
PART 2	ERA —1 Aquaculture threshold (2b) - cultivating or holding marine, estuarine or freshwater organisms, other than crustaceans, in enclosures that are on land and have a total area of more than 10ha but not more than 100ha	Site 3 - Cowley Creek Lot 1 Plan RP721954, Lot 2 Plan CP886368, Lot 1 Plan NR5347; and Lot 295 Plan RP814124

Part 1: Site 2 – Bruce Highway The following conditions are applicable to the location described as Site 2 — Bruce Highway.	
Agency interest: General	
Condition number	**Condition**
A1	The **holder of this environmental authority** must amend the existing Integrated Environmental Management System to include the following functions: (a) a program for continuous improvement; and (b) reporting arrangements on the effectiveness of the environmental management of the activities.
A2	The holder of this environmental authority must: (a) on or before 1 October 2000, lodge a description of the amendments to the Integrated Environmental Management System and its documentation with the **administering authority** for its review and comment; and (b) have due regard to that comment in the finalisation of the amended Integrated Environmental Management System; and (c) on or before 1 January 2001, have completed and implemented the amended Integrated Environmental Management System.
A3	A copy of the amended Integrated Environmental Management System must be kept at the registered business address of Sealord King Reef Pty Ltd.
A4	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
A5	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 and weekly records, 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.
A6	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.
A7	All determinations of the quality of contaminants released to the environment 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.

A8	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.
A9	This applies to the carrying out of aquaculture at the following licensed places for the number and area of barramundi ponds shown below: **Site 2 -** Part of Lot 144 Plan SP257024, Parish of Mourilyan, County of Nares located at Bruce Highway, Mourilyan Old 4858 - operation of not more than eight (8) barramundi ponds, and a hatchery and rearing facility having a combined total area of not greater than seventeen (17) hectares.
A10	The holder of this environmental authority must ensure that the operation and maintenance of plant and equipment is carried out by or under the supervision of a person competent to operate and maintain the plant and equipment.

Agency interest: Air	
Condition number	**Condition**
B1	Notwithstanding any other condition of this environmental authority, no release of contaminants from the carrying out of the environmentally relevant activity is to cause a noxious or offensive odour at any odour sensitive place.

Agency interest: Water	
Condition number	**Condition**
C1	Contaminants must not be released directly or indirectly from any source on the licensed place to any waters at any location other than from Release Point W2 (shown in Schedule 1) to waters described as Ercegs Creek.
C2	Other than during periods of prolonged excessive rainfall, the total combined quantity of contaminants (in the form of barramundi pond effluent) released during any day from Release Point W2 at the licensed place at Lot 144 Plan SP257024, Parish of Mourilyan, County of Nares (located at Bruce Highway, Mourilyan) to Ercegs Creek, must not exceed 350 cubic metres.

C3

The release of contaminants to waters must comply with the limits for each quality characteristic specified in Table 1 - Release Quality Characteristic Limits.

Table 1 - Release Quality Characteristic Limits

Quality Characteristic	Release Point (Site 2)	Discharge Limit	Limit Type
pH (pH Units)	W2	6.5 to 8.7	**range**
Dissolved Oxygen (mg/l)	W2	4.0	**minimum**
5-Day Biochemical Oxygen Demand (mg/l)	W2	20	**maximum**
Suspended Solids (mg/l)	W2	25 100	**80th percentile** **maximum**
Total Nitrogen (mg/l)	W2	2.5 5.0	**80th percentile** **maximum**
Total Phosphorus as P (mg/l)	W2	0.25 0.6	**80th percentile** **maximum**

C4

Notwithstanding the quality characteristic limits specified in Table 1 - Release Quality Characteristic Limits set out in condition C3, the release of contaminants to waters from Release Points W2 must not produce any slick or other visible floating oil, grease, scum, litter or other objectionable matter.

Stormwater Management

Conditions number	Condition
Nil Conditions	

Agency interest: Land

Condition number	Condition
Nil Conditions	

<table>
<tr><th colspan="2">Agency interest: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td colspan="2">Nil Conditions</td></tr>
<tr><th colspan="2">Agency interest: Waste Management</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>G1</td><td>Waste must be stored, transferred and disposed of in such a way as to minimise the release of contaminants to the environment.</td></tr>
<tr><th colspan="2">Agency interest: Waste</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>H1</td><td>The holder of this environmental authority is responsible for determining the quality of contaminants released to waters from Release Points W2 by determining those quality characteristics specified in Table 2 - Required Release Point Determinations. Such determinations must be carried out at each of the release points as often as is necessary to check compliance with this environmental authority but not less frequently than shown in that table.

Table 2 - Required Release Point Determinations
<table>
<tr><th>Quality Characteristic</th><th>Release Point</th><th>Minimum Sampling Frequency</th></tr>
<tr><td>pH</td><td>W2</td><td>Monthly</td></tr>
<tr><td>Dissolved. Oxygen</td><td>W2</td><td>Monthly</td></tr>
<tr><td>5-Day Biochemical Oxygen Demand</td><td>W2</td><td>Quarterly</td></tr>
<tr><td>Suspended Solids</td><td>W2</td><td>Quarterly</td></tr>
<tr><td>Total Nitrogen</td><td>W2</td><td>Quarterly</td></tr>
<tr><td>Total Phosphorus as P</td><td>W2</td><td>Quarterly</td></tr>
</table></td></tr>
<tr><td>H2</td><td>All determinations required by this environmental authority must be made in accordance with methods prescribed in the Department of Environment and Heritage Protection Water Quality Sampling Manual, 2nd Edition, February 1995, (or more recent additions or supplements to that document as</td></tr>
</table>

	such become available), and performed by a person or body acceptable to the **administering authority**,
H3	All determinations of the quality of contaminants released must be performed by a person or body acceptable to the **administering authority**.
H4	The daily quantities of effluent released to waters from the Release W2 at site 2 must be determined by a method acceptable to the **administering authority** and recorded in a log.
H5	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G 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.
H6	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G of the *Environmental Protection Act 1994,* the notification of emergencies or incidents as required by condition number (H5) must include but not be limited to the following: (a) the holder of this 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 this 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.
H7	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G of the *Environmental Protection Act 1994,* not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of this environmental authority must provide written advice of the information supplied in accordance with condition number (H6) in addition to: (a) proposed actions to prevent a recurrence of the emergency or incident; and (b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.

H8	The holder of this environmental authority must notify the **administering authority** in writing within twenty-eight (28) days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.
H9	The written notification required by conditions number (H8) above must include: (a) the full analysis results; and (b) details of investigation or corrective actions taken; and (c) any subsequent analysis.
H10	Not more than three (3) calendar months after the date this environmental authority takes effect the holder of this environmental authority must develop an ambient monitoring and reporting program, acceptable to the **administering authority**, to monitor the impacts on the receiving environment of the aquaculture facility.
H11	The holder of this environmental authority must commence the monitoring and reporting program described in condition number (H10) within thirty (30) days of being advised in writing by the **administering authority** that the program is acceptable.

Definitions

Key terms and/or phrases used in this document are defined in this section. Applicants should note that 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.

"Act" means the *Environmental Protection Act 1994*.

"Administering authority" means the Department of Environment and Heritage Protection or its successor.

“80th percentile" means that the measured values of the quality characteristic must not be greater than the release limit for any more than one out of five consecutive samples.

"mg/l" means milligrams per litre.

"Holder of this environmental authority" means Sealord King Reef Pty Ltd.

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

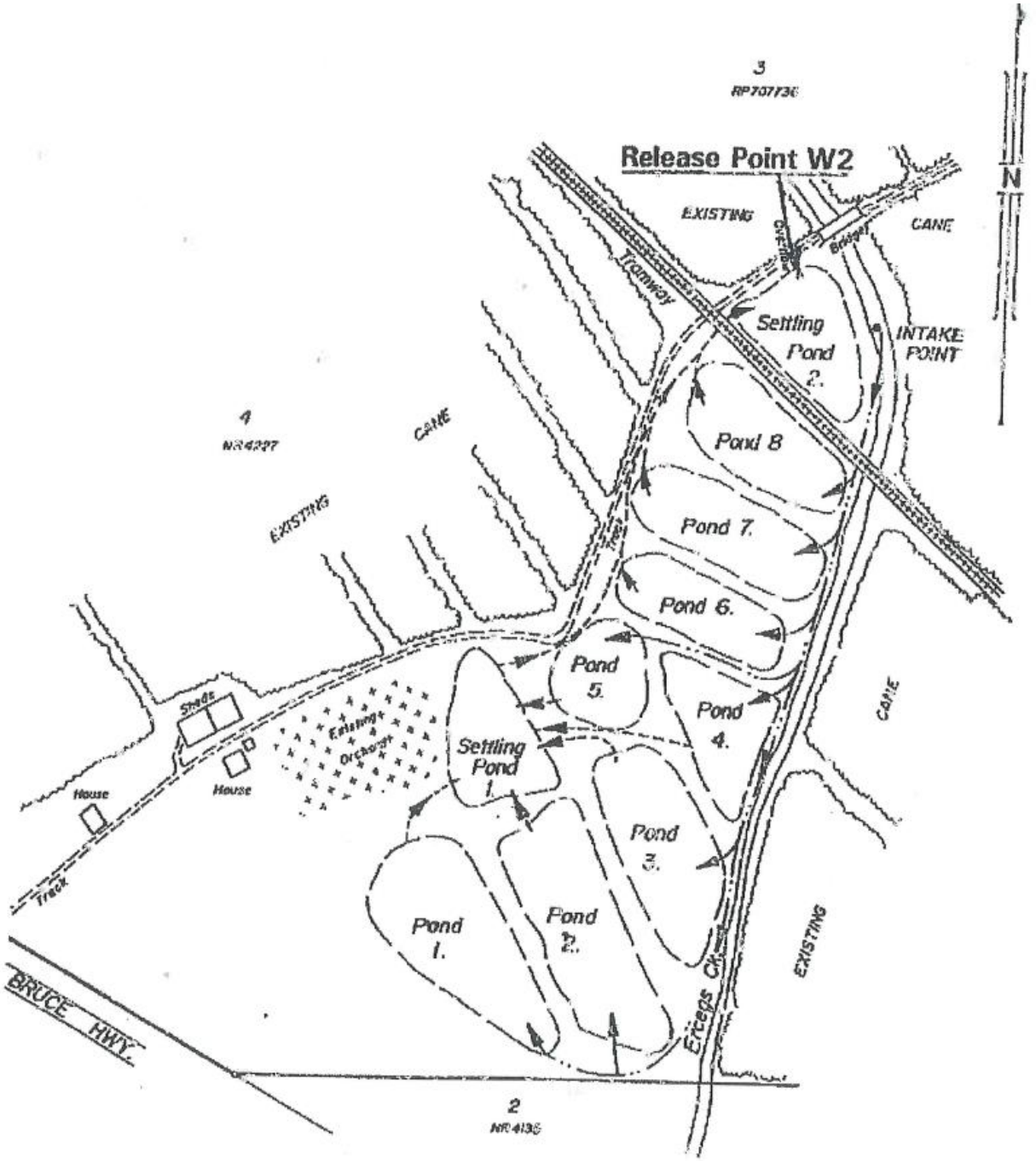
"Minimum" means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.

"Range" means that the measured value of the quality characteristic or contaminant must not be more than the higher release limit stated nor lower than the lower release limit stated.

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

Schedule 1 – Site Plan

Location Plan Showing Premises and Contaminant Release Points: Site 2 – Release Point W2.



ABN 46 640 294 485

Part 2: Site 3 –Cowley Creek The following conditions are applicable to the location described as Site 3 — Cowley Creek.	
Agency interest: General	
Condition number	**Condition**
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 environmental authority must be kept at the **approved place** for a period of at least five (5) years and be available for examination by an authorised person. For daily and weekly records, 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.
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 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.
A4	All determinations of the quality of contaminants released to the environment 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.
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.
A6	This environmental authority applies to the operation and maintenance of: (a) twenty (20) nursery ponds with a total combined area of not more than 2.25 hectares, for the production of barramundi fingerlings; and (b) forty-three (43) barramundi growout ponds with a total combined area of not more than 38.5 hectares for the production of barramundi; and (c) an on-farm wastewater retention and treatment system consisting of at least four (4) settlement ponds with a total combined area of not less than 5.7ha.
A7	The bed and banks of the aquaculture and settlement ponds must have a permeability of not more than 1 x 10^{-8} metres/second.

Agency interest: Air	
Condition number	**Condition**
B1	Notwithstanding any other condition of this environmental authority, no release of contaminants from the carrying out of the environmentally relevant activity is to cause a noxious or offensive odour at any odour sensitive place.
Agency interest: Water	
Condition number	**Condition**
C1	The only contaminants permitted to be released from the **approved place** at Release Points W1, W2, and W3 are aquaculture wastewater.

C2	Contaminants that may cause environmental harm must not be directly or indirectly released to any waters in any period at any location other than the contaminants and sources at the locations and periods listed below: <u>Discharges Permitted for the Months of July to November Inclusive</u> (a) Release Point W1 (shown in Schedule 2 - Site Plan): daily exchange only from 7 growout ponds in Rows A and B, via a settlement pond to Cowley Creek. (b) Release Point W2 (shown in Schedule 2 - Site Plan): daily exchange only from 16 growout ponds in Rows C and D, via a settlement pond to Cowley Creek (c) Release Point W3 (shown in Schedule 2 - Site Plan): nursery pond daily exchange and drainage waters, via a settlement pond to Liverpool Creek (d) Release Point W3 (shown in Schedule 2 - Site Plan): daily exchange and drainage waters, from 17 growout ponds in Rows A and B, via a settlement pond to Liverpool Creek. <u>Discharges Permitted for the Months of December to June Inclusive</u> (a) Release Point W1 (shown in Schedule 2 - Site Plan): daily exchange and pond drainage waters from 7 growout ponds in Rows A and B, via a settlement pond to Cowley Creek. (b) Release Point W2 (shown in Schedule 2 - Site Plan): daily exchange and pond drainage waters from 16 growout ponds in Rows C and D, via a settlement pond to Cowley Creek (c) Release Point W3 (shown in Schedule 2 - Site Plan): nursery pond daily exchange and drainage waters, via a settlement pond to Liverpool Creek (d) Release Point W3 (shown in Schedule 2 - Site Plan): daily exchange and pond drainage waters, from seventeen (17) growout ponds in Rows A and B, via a settlement pond to Liverpool Creek.

C3

All wastewaters released from the barramundi ponds must be treated in settlement ponds having the design criteria and minimum retention times specified in Table 1.

Table 1

Settlement Pond Specifications	Source and Release Point			
	Nursery	Rows AB to W1	Rows AB to W3	Rows CD to W2
Pond area (m^2)	3600	17 000	22 000	15 000
Pond volume (m^3)	6480	30 600	39 600	27 000
Retention time - exchange only (days)	9.5	13	7.5	7
Retention time - pond drainage and exchange (days)	4.0	4.5	4	3.5

C4

With the exception of periods when excessive rainfall causes aquaculture ponds to overflow, the total quantity of contaminants released via Release Points W1 - W3 must not exceed the daily values specified in Tables 2 and 3.

Table 2

Maximum daily discharge (m3/day) permitted July to November inclusive.

Discharge Type	**Release Point**		
	W1	**W2**	**W3**
exchange	1155	1913	5955
exchange + drainage	1155	1913	10925

Table 3

Maximum daily discharge (m^3/day) permitted December to June inclusive.

Discharge Type	**Release Point**		
	W1	**W2**	**W3**
exchange	2130	3825	5955
exchange + drainage	6435	7013	10925

<table>
<tr><td>C5</td><td>The release of contaminants to waters must comply, at the sampling and in situ monitoring points specified in the Monitoring and Reporting section of this environmental authority, with each of the limits specified in Table 4 - Release Quality Characteristic Limits for each quality characteristic.

Table 4 - Release Quality Characteristic Limits
<table><tr><th>Quality Characteristic</th><th>Release Point Number</th><th>Release Limit</th><th>Limit Type</th></tr><tr><td>Suspended Solids (mg/l)</td><td>W1, W2 & W3</td><td>15
25</td><td>80th Percentile
Maximum</td></tr><tr><td>pH (pH Units)</td><td>W1, W2 & W3</td><td>6.5 – 8.7</td><td>Range</td></tr><tr><td>Dissolved Oxygen (mg/l)</td><td>W1, W2 & W3</td><td>4.0</td><td>minimum</td></tr><tr><td>Total Nitrogen (mg/l)</td><td>W1, W2 & W3</td><td>0.6
0.8</td><td>80th Percentile
Maximum</td></tr><tr><td>Chlorophyll 'a' (µg/l)</td><td>W1, W2 & W3</td><td>30
50</td><td>80th Percentile
Maximum</td></tr><tr><td>Total Phosphorus as P (mg/l)</td><td>W1, W2 & W3</td><td>0.05
0.08</td><td>80th Percentile
Maximum</td></tr></table>Note: the 80th percentile and maximum values are to be calculated using consecutive results for the previous (5) months for the characteristic.</td></tr>
<tr><td>C6</td><td>Wastewaters must be released from each Release Point in a manner which does not cause bed and/or bank erosion of the receiving waters.</td></tr>
</table>

Agency interest: Stormwater Management	
Condition number	**Condition**
D1	Pond sediment removed from the aquaculture or settlement ponds must be stored and/or disposed of in a manner which does not cause the release of contaminants into a waterway or stormwater drain.
D2	All bulk chemical and petroleum product storage containers must be bunded so that the capacity of the bund is sufficient to contain at least 100 % of the largest storage container plus 10% of the second largest container within the bund.
D3	All bunding must be constructed and maintained so as to be impervious to the materials being stored within it.
D4	All bunding of chemical or petroleum product storage containers must be roofed where practicable.
D5	Where it is impractical to completely roof a bunded area the holder of the environmental authority must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.
D6	All required pipework from the bunded areas must be directed over the bund wall and not through it.
Agency interest: Land	
Condition number	**Condition**
Nil conditions.	
Agency interest: Noise	
Condition number	**Condition**
Nil conditions.	

Agency interest: Waste Management	
Condition number	**Condition**
G1	The holder of this environmental authority shall notify the **administering authority** of any disease outbreak requiring treatment and/or drainage of pond and/or tank contents.
G2	The holder of this environmental authority must seek the written approval of the **administering authority** prior to disposing of any diseased organisms, or water which has come into contact with diseased organisms.
G3	The holder of this environmental authority must keep and maintain records for all waste disposed on the premises, including aquaculture pond sludge other than that sludge which is used in the maintenance of ponds. The records must include the following information: (a) description of the material (b) quantity of the material; (c) date of disposal of the material; (d) disposal location; (e) disposal methods.
Agency interest: Waste	
Condition number	**Condition**
H1	All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the **approved 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.
H2	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 Table 5.

<table>
<tr><td>H3</td><td>Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in the Water section of this environmental authority must be undertaken at the sampling and in situ monitoring points described as Release Points W1 - W3.</td></tr>
<tr><td>H4</td><td>All determinations of the quality of contaminants released to waters must be made in accordance with methods prescribed in the Department of Environment and Heritage Protection Water Quality Sampling Manual, 2nd Edition, February 1995, or more recent additions or supplements to that document as such become available.</td></tr>
<tr><td>H5</td><td>The daily quantity of contaminants released must be monitored and records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.</td></tr>
<tr><td>H6</td><td>The results of the monitoring of contaminant releases to waters carried out on a monthly basis must be submitted to the administering authority as soon as practicable after the results become available.</td></tr>
<tr><td>H7</td><td>The results of all other monitoring performed in accordance with this environmental authority must be submitted with the Annual Return for the environmental authority issued to the operator of the environmentally relevant activity.
Table 5
<table>
<tr><th>QUALITY CHARACTERISTIC DETERMINATION</th><th>RELEASE POINTS</th><th>FREQUENCY</th></tr>
<tr><td>Suspended Solids</td><td>W1-W3</td><td>monthly (when a release is occurring)</td></tr>
<tr><td>pH</td><td>W1-W3</td><td>daily (when a release is occurring)</td></tr>
<tr><td>Dissolved Oxygen</td><td>W1-W3</td><td>daily (when a release is occurring)</td></tr>
<tr><td>Total Nitrogen</td><td>W1-W3</td><td>monthly (when a release is occurring)</td></tr>
<tr><td>Chlorophyll a</td><td>W1-W3</td><td>monthly (when a release is occurring)</td></tr>
<tr><td>Total Phosphorus as P</td><td>W1-W3</td><td>monthly (when a release is occurring)</td></tr>
</table></td></tr>
<tr><td>H8</td><td>A benthic macroinvertebrate monitoring program (using a 'control' versus "impact' experimental design) must be undertaken in Cowley Creek adjacent to the approved place to determine any change in benthic macroinvertebrate population structure due to the operation of the activity.</td></tr>
<tr><td>H9</td><td>Within six (6) months of the commencement of the approved aquaculture activity the holder of this environmental authority must:</td></tr>
</table>

	(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.
H10	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G 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.
H11	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G of the *Environmental Protection Act 1994,* the notification of emergencies or incidents as required by condition number H10 must include but not be limited to the following: (a) the holder of this 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 this 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.
H12	Where the holder of this environmental authority has not given notification to the **administering authority** under section 320-320G of the *Environmental Protection Act 1994*, not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of this environmental authority must provide written advice of the information supplied in accordance with condition number H11 in addition to: (a) proposed actions to prevent a recurrence of the emergency or incident; and (b) outcomes of actions taken at the time to prevent or minimise environmental harm and or environmental nuisance.
H13	The holder of this environmental authority must notify the **administering authority** in writing within twenty-eight (28) days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority which indicates an exceedance of any limit specified in this environmental authority.

H14	The written notification required by condition number H13 above must include: (a) the full analysis results; and (b) details of investigation or corrective actions taken; and (c) any subsequent analysis.

Definitions

Key terms and/or phrases used in this document are defined in this section. Applicants should note that 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.

"administering authority" means the Department of Environment and Heritage Protection or its successor.

"The Act" means the *Environmental Protection Act 1994*

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

"mg/l" means milligrams per litre

"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.

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

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

"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.

"$L_{Amax\ adj,T}$" 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.

"background noise level" means $L_{Abg,T}$ 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.

"MaxL $_{pA, T}$" means the **maximum** A-weighted sound pressure level measured over a time period of not less than fifteen (15) minutes, using fast response.

"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 kindergarten, school, university or other educational institution; or

(d) a medical centre or hospital; or

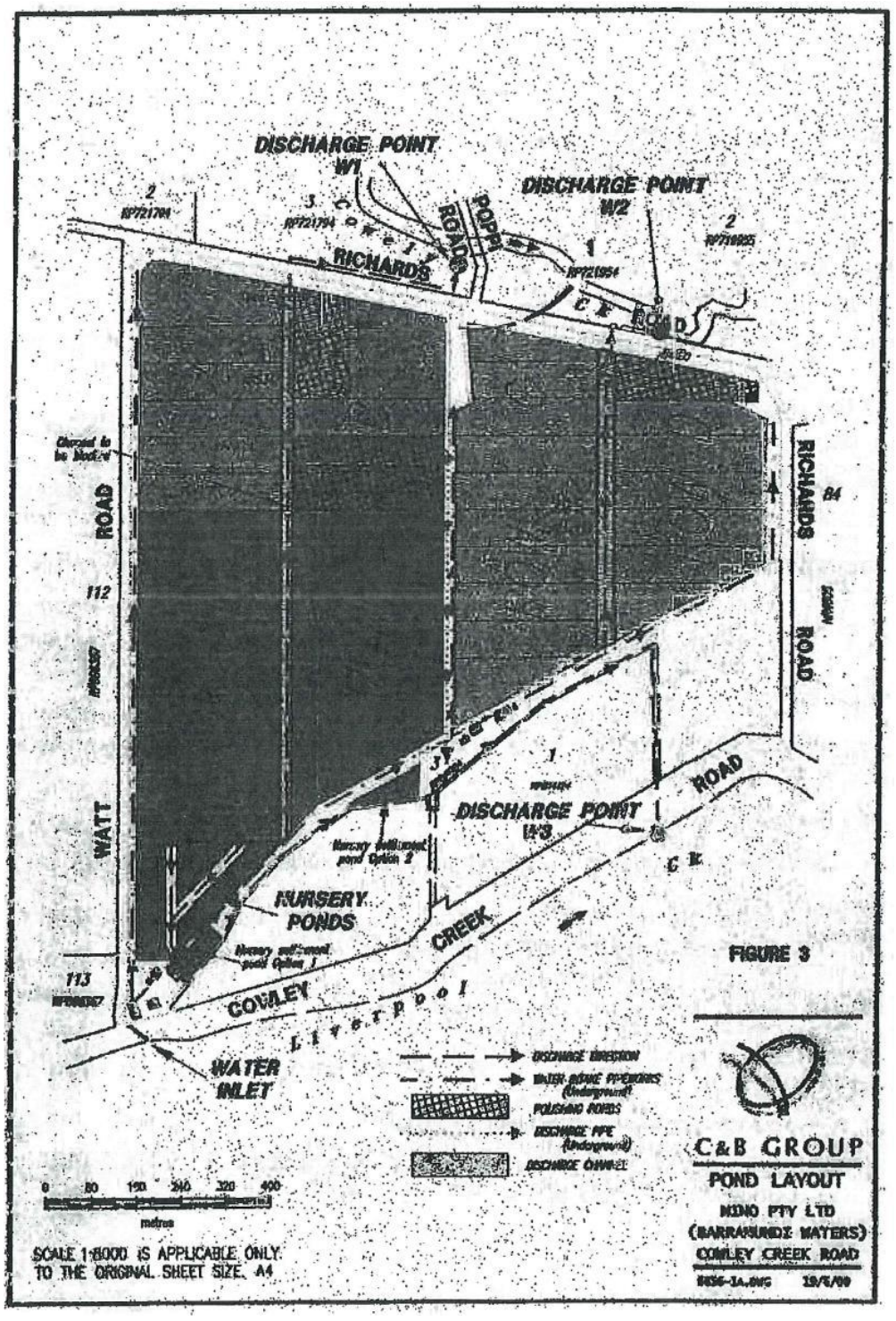
(e) a protected area; or

(f) a public park or gardens.

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

"approved place" means Lot 1, NR5347, Lot 2, CP886368 Lot 295, RP814124, Lot 1, RP721954 Parish of Cowley, County of Nares, located at Cowley Creek Road, Cowley Creek Qld 4871.

Schedule 2 — Site Plan
Pond Layout and Release Points W1, W2 & W3



END OF PERMIT

ABN 46 640 294 485

Queensland Government