Queensland Government

Department of
Environment and Heritage Protection

8-SEPT-2014

To: Seafarm Queensland Pty Ltd
PO Box 7312
Cloisters Square
PERTH WA 6850

Email: dallas.donovan@seafarms.com.au

Attention: Mr Dallas Donovan

Your reference: EPPR00215213
Our reference: 223432

Application details

I refer to the application that was received by the administering authority on 12-AUG-2014.

Land description: Nicolson Road, Damper Creek CARDWELL QLD 4849 Lot 1 on Plan SP125429; Bruce Highway, Damper Creek CARDWELL QLD 4849 Lot 3 on Plan RP703909; Bruce Highway, Damper Creek CARDWELL QLD 4849 Lot 16 on Plan RP732868; Bruce Highway, Damper Creek CARDWELL QLD 4849 Lot 51 on Plan CWL841330; 112 Ella Bay Road FLYING FISH POINT QLD 4860 Lot 235 on Plan NR7590.

Decision

Your application has been approved and your environmental authority (reference EPPR00215213) is attached.

Should you have any further enquiries, please contact Kate Rutherford on telephone (07) 4722 5456.

Yours sincerely

Signature	Date
	8/9/14

Mark Cavicchiolo
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Kate Rutherford
ES - Reg Serv - Northern - Cairns
PO Box 7320
CAIRNS QLD 4870
Phone: (07) 4722 5456
Fax: (07) 4722 5070
Email: kate.rutherford@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

Enclosed

Permit - environmental authority (reference EPPR00215213)

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: EPPR00215213

Environmental authority takes effect on 8 September 2014.

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

An annual return and the payment of the annual fee which is currently $4,018.80 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

Location(s)	Environmentally relevant activity(ies)
Cardwell Aquaculture Farm Lot 1 on Plan SP125429 Nicolson Road, Damper Creek CARDWELL QLD 4849 Lot 3 on Plan RP703909 Bruce Highway, Damper Creek CARDWELL QLD 4849 Lot 16 on Plan RP732868 Bruce Highway, Damper Creek CARDWELL QLD 4849 Lot 51 on Plan CWL841330 Bruce Highway, Damper Creek CARDWELL QLD 4849	ERA 1-(1c) Aquaculture: Cultivating or holding crustaceans in enclosures that are on land and have a total area of more than 100ha.
Cardwell Seafood Processing Plant Lot 16 on Plan RP732868 Bruce Highway, Damper Creek CARDEWLL QLD 4849	ERA 27 Seafood processing: Processing, in a year, 500t or more of seafood or seafood products.

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

Flying Fish Point Hatchery Lot 235 on Plan NR7590 112 Ella Bay Road FLYING FISH POINT QLD 4860	ERA 1-(1a) Aquaculture: Cultivating or holding crustaceans in enclosures that are on land and have a total area of more than 100m^2, but less than 10ha.

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).

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.

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

Part	Applicable Location	Environmentally Relevant Activity
Part 1	Applicable to all sites	Applicable to all Environmentally Relevant Activities
Part 2	Cardwell Aquaculture Farm	ERA 1-(1c) Aquaculture (land based): crustaceans >100ha

Part 3	Cardwell Seafood Processing Plant	ERA 27 Seafood processing: >500t/year
Part 4	Flying Fish Point Hatchery	ERA 1-(1a) Aquaculture (land based): crustaceans >100m^2 but <10ha land

Signature

8/9/14

Date

Mark Cavicchiolo
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Kate Rutherford
ES - Reg Serv – Cairns – William McCormack
PO Box 7230
CAIRNS QLD 4870
Phone: (07) 4722 5456
Fax: (07) 4722 5070
Email: kate.rutherford@ehp.qld.gov.au

Part 1: General Conditions The following conditions are applicable to all authorised sites under this environmental authority	
Agency Interest: General	
Condition number	**Condition**
P1-G1	**Compliance with Environmental Authority** In carrying out the environmentally relevant activity, **you** must take all reasonable and practical measures to minimise releases and the likelihood of releases of contaminants to the environment, except as otherwise provided by the conditions of this environmental authority.
P1-G2	**Display of Environmental Authority** A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
P1-G3	**Records** Any record or document required to be kept by a condition of this environmental authority must be kept at the licensed place for a period of at least five (5) years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
P1-G4	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.
P1-G5	**Alterations** No change, replacement or operation of any plant or equipment is permitted if the changes, 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.
P1-G6	**Calibration** All instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority must be calibrated, and appropriately operated and maintained.
P1-G7	**Nuisance** Notwithstanding any other condition of this environmental authority, this environmental authority does not authorise any release of contaminants which causes or is likely to cause an environmental nuisance beyond the boundaries of the licensed place.

Agency Interest: Water	
P1-W1	**Release of Contaminants to Waters** Contaminants must not be directly or indirectly released from the licensed place to any waters or the bed and banks of any waters except as permitted under the Water conditions or the Stormwater Management conditions of this environmental authority, or to a sewer as permitted or otherwise agreed from time to time by the Local Government.
Agency Interest: Waste Management	
P1-WM1	**You** must not: (a) burn waste at or on the licensed place; nor (b) allow waste to burn or be burned at or on the licensed place; nor (c) remove waste from the licensed place and burn such waste elsewhere.
Agency Interest: Monitoring and Reporting	
P1-MR1	**Complaint Recording** All complaints received by **you**, relating to releases of contaminants from operations at then licensed place must be recorded and kept in a log book 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 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 the responsible person.
P1-MR2	**Monitoring of Volume of Release** The daily quantity of contaminants released must be determined by a method which is accurate to within 10% of the actual amount released.
P1-MR3	Records must be kept of the results of all determinations of the daily quantity of contaminants released to waters.

Definitions: **For the purpose of this part of the environmental authority the following definitions apply**	
Word/phrase	**Definition**
administering authority	means the Department of Environment and Heritage Protection or its successor or predecessors.
you	means the holder of the environmental authority.
End conditions for Part 1	

Part 2: Cardwell Aquaculture Farm	
Agency interest: General	
Condition number	**Condition**
P2-G1	**Compliance with Environmental Authority** **You** must: (a) install and operate all works and control equipment; and (b) take all measures, perform all acts and do all things, necessary to ensure compliance with the conditions of this environmental authority.
P2-G2	**Number and Area of Ponds** This environmental authority applies to the operation of not more than 124 aquaculture ponds having a combined total area of not greater than 140 hectares.
P2-G3	**Competency** **You** shall ensure that 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.
Agency interest: Water	
Condition number	**Condition**
P2-W1	**Release of Contaminants to Waters** The only contaminants permitted to be released from the licensed place at the release point W1 are aquaculture and seafood processing wastes from the aquaculture ponds and seafood processing waste treatment system. The only contaminants permitted to be released from the licensed place at the release point W2 are aquaculture wastes from the aquaculture ponds.
P2-W2	**Release Points** 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 of the locations listed below: (a) Release point W1 – Aquaculture and Seafood Processing wastes from the discharge structure to Mary Creek near its mouth adjacent to pond 10 of Stage One. (b) Release point W2 – Aquaculture wastes from the discharge structure to Pig Creek at 1.8km AMTD adjacent to pond 5 of Stage Two.
P2-W3	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 bed, the stream banks or the habitat in general.

P2-W4

Quantity of Contaminants Released

The total quantity of contaminants released from the release point W1 during any day must not exceed 60,000 cubic metres. The total quantity of wastes discharged during one calendar year shall not exceed 16,425,000 cubic metres, being an average of 45,000 cubic metres per day.

The total quantity of contaminants released from release point W2 during any day must not exceed 75,000 cubic metres. The total quantity of wastes discharged during one calendar year shall not exceed 21,900,000 cubic metres, being an average of 60,000 cubic metres per day.

P2-W5

Should a stage 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 limited to a proportion of the above volumes, based on the number of ponds in operation in relation to the full development of 60 hectares of ponds for Stage One and 80 hectares of ponds for Stage Two ponds.

P2-W6

Quality Characteristics of Release to Waters

The release of contaminants to waters must comply, at the sampling and in-situ measurement point/s specified in condition number P2-MR2, with each of the limits specified in *Table 1: Release Quality Characteristic Limits*, for each quality characteristic.

Table 1: Release Quality Characteristic Limits

QUALITY CHARACTERISTICS	RELEASE POINT	DISCHARGE LIMIT	LIMIT TYPE
Suspended Solids (**mg/L**)	W1, W2	50/70/200	**Median/80th Percentile/Maximum**
pH (pH Units)	W1, W2	6.5 - 8.7	**Range**
Dissolved Oxygen (**mg/L**)	W1, W2	3.5	**Minimum**
Total Nitrogen (mg/L)	W1, W2	2.0/2.5/4.0	**Median/80th Percentile/Maximum**
Chlorophyll a (**µg/L**)	W1, W2	20/200	**Median/Maximum**
Total Phosphorus as P (**mg/L**)	W1, W2	0.4/60	**80th Percentile/Maximum**

P2-W7

For all parameters in *Table 1: Release Quality Characteristic Limits*, except dissolved oxygen concentration, where a **median** and/or **80th percentile** and/or **maximum** limit is specified, the set of data describing the release quality characteristics must have a **median** lower in value than the **median** limit and/or an **80th percentile** lower in value than the **80th percentile** limit and/or a **maximum** lower in value than the **maximum** limit.

For dissolved oxygen concentration, the set of data describing the release quality characteristics must have a **minimum** higher in value than the **minimum** limit.

P2-W8

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.

Agency interest: Stormwater Management	
Condition number	**Condition**
P2-SM1	**Spillage Control** All existing chemical tank storages must be within a spillage control **compound** sufficient to contain at least 100% of the largest storage tank.
P2-SM2	All chemical tank storages constructed after 1 August 1996 must be within a spillage control **compound** sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the **compound**.
P2-SM3	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**.
P2-SM4	All chemical package 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 L, together with 10% of the storage capacity beyond 10,000 L.
P2-SM5	Notwithstanding condition number P2-SM3, floors forming part of the spillage control **compound** for the chemical package storage and handling areas must be impervious and not liable to degradation.
P2-SM6	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.
P2-SM7	**Pond Sludge Conditioning Areas** Runoff from pond sludge 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.
Agency interest: Land Application	
Condition number	**Condition**
P2-L1	**Release of Contaminants to Land** The release of pond sludge to **land** must only occur in pond sludge conditioning areas identified in the application for environmental authority or identified in an approved document listed in the Approved Documents conditions of this environmental authority.

<table>
<tr><th colspan="2">Agency interest: Monitoring and Reporting</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>P2-MR1</td><td>Incident Recording
A record must be maintained of events including, but not limited to:
(a) the time, date and duration of equipment malfunctions where failure of such equipment may result in environmental contamination;
(b) any shut-down of treatment systems;
(c) any disease outbreak in ponds.</td></tr>
<tr><td>P2-MR2</td><td>Sampling and Monitoring Point Details
Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in the Water conditions of this environmental authority must be undertaken at the sampling and measurement point(s) described as:
(a) W1 – Samples are to be taken and in-situ measurements made at the discharge structure to Mary Creek near its mouth adjacent to pond 10 of Stage One.
(b) W2 – Samples are to be taken and in-situ measurements made at the discharge structure to Pig Creek at 1.8km AMTD adjacent to pond 5 of Stage Two.</td></tr>
<tr><td>P2-MR3</td><td>Harvest Monitoring
You are responsible for determining the quality of the contaminants released from the Release Points during harvest by determining those quality characteristics specified in Table 2, at the Release Points specified in that table and at the frequency specified in that table.
Table 2
<table>
<tr><th>QUALITY CHARACTERISTIC DETERMINATION</th><th>RELEASE POINT</th><th>FREQUENCY</th></tr>
<tr><td>Suspended Solids (by NATA accredited laboratory method)</td><td>W1, W2</td><td>during the first, last and median hour of the draining during harvest for three harvests per year</td></tr>
<tr><td>Turbidity or Suspended Solids (by indicative field measurement)</td><td>W1, W2</td><td>during each hour of the draining</td></tr>
</table></td></tr>
<tr><td>P2-MR4</td><td>Notification of Emergencies and Incidents
As soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonable expected to be not in accordance with the conditions of this environmental authority, you must notify the administering authority of the release by telephone or facsimile or submission of a program notice in accordance with Section 333 of the Act.</td></tr>
</table>

P2-MR5	The notification of emergencies or incidents as required by condition number P2-MR4 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 **you** became aware of the **release**; (g) the suspected cause of the release; (h) the environmental harm and/or environmental nuisance caused, threatened, or suspected to be caused by the release; and (i) actions taken to prevent any further release and mitigate the environmental harm and/or environmental nuisance caused by the release, unless a program notice in accordance with Section 333 of **the Act** is submitted.
P2-MR6	Not more than three (3) months following the initial notification of an emergency or incident, **you** must provide written advice of the information supplied in accordance with condition number P2-MR5, 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.
P2-MR7	A draft environmental management program dealing with the activity submitted to the **administering authority** for approval fulfils the requirements of condition number P2-MR6 (a).
P2-MR8	**Monitoring of Contaminant Releases to Waters** Monitoring the quality of contaminant releases to waters must include, but not be limited to, samples taken at a time when **maximum** flow rate is occurring from the outlet.

P2-MR9

You are responsible for 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 3.*

Table 3

QUALITY CHARACTERISTIC DETERMINATION	RELEASE POINT	FREQUENCY
Suspended Solids (by NATA accredited laboratory method)	W1, W2	once per month in each month a discharge occurs and once per day on each day an indicative field measurement indicates that the **maximum** licence limit is exceeded
pH	W1, W2	on each day that a discharge occurs
Dissolved Oxygen	W1, W2	on each day that a discharge occurs
Temperature - Celsius degrees	W1, W2	on each day that a discharge occurs
Total Nitrogen as N	W1, W2	once per month in each month that a discharge occurs
Chlorophyll a	W1, W2	once per month in each month that a discharge occurs
Total Phosphorus as P	W1, W2	once per month in each month that a discharge occurs
Turbidity or Suspended Solids (by indicative field measurement)	W1, W2	on each day that a discharge occurs

P2-MR10

Sample 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 for analysis before an accurate analytical result is obtained; or

(b) the analysis of the primary sample is not considered to be accurate.

P2-MR11

All determination of the quality of contaminants released to waters must be made in accordance with methods prescribed in the **administering authority**'s *Water Quality Sampling Manual, 2nd Edition, February 1995*, or more recent additions or supplements to that document as such become available.

P2-MR12

Notwithstanding condition number P2-MR11, measurement of Suspended Solids by indicative field measurement can be performed using a Royce Model 711 TSS meter provided that sufficient correlation exists between the measurements with this meter and the determinations made in accordance with methods prescribed in the **administering authority's** *Water Quality Sampling Manual, 2nd Edition, February 1995*, or more recent additions or supplements to that document as such become available.

P2-MR13

All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.

P2-MR14	**Impact Monitoring** Environmental Impact Monitoring, in accordance with the Approved Document *Environmental Impact Monitoring Program for Seafarm Pty Limited* dated 6 August 1996, or any subsequent monitoring program approved by the administering authority, must be undertaken, in relevant creeks and along the western shoreline of Hinchinbrook Channel adjacent to the licensed premises, to determine: (a) presence of water quality disturbances; and/or (b) any changes to representative natural biological communities.
P2-MR15	**Impact Monitoring Alternative** Participation in an Environmental Assessment Study (EAS) approved by the **administering authority** is deemed to satisfy condition number P2-MR14 for the period of participation, provided all financial and other requirements of the study are met.
P2-MR16	Should **you** cease to participate in the EAS, as defined in condition P2-MR15, **you** must notify the **administering authority** within 30 days.
P2-MR17	**Report Submission** **You** 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.
P2-MR18	**Exception Reporting** **You** must notify the **administering authority** in writing of any monitoring results which indicated an exceedance of any licence limit within 28 days of completion of analysis.
P2-MR19	The written notification required by condition number P2-MR18 above must include: (a) the full analysis results; and (b) details of investigation or corrective actions taken; and (c) any subsequent analysis.
P2-MR20	Submission of a program notice in accordance with Section 333 of **the Act** fulfils the requirements of condition numbers P2-MR18 and P2-MR19.
Agency interest: Approved Documents	
Condition number	**Condition**
P2-AD1	The environmentally relevant activity must be constructed, operated and maintained in accordance with all undertakings of the environmental authority application, documents supporting the application and any other documents approved by the **administering authority** as set out in the Approved Documents conditions.

P2-AD2	In the event of any inconsistency arising between the undertakings of the environmental authority application or other approved documents as set out in the Approved Documents conditions and the conditions of this environmental authority, the conditions of this environmental authority must apply.
P2-AD3	For the purposes of this environmental authority the following stated documents are approved documents: (a) Environmental Impact Monitoring Program for Seafarm Pty Limited, dated 6 August 1996; or (b) any subsequent monitoring program approved by the administering authority.

Definitions:

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

Word/phrase	Definition
administering authority	means the Department of Environment and Heritage Protection or its successor or predecessors.
bund	means an embankment or wall which may form part or all of the perimeter of a **compound**.
compound	means an area bounded by natural ground contours or by a **bund**, sufficiently impervious to retain spillage or leakage pending recovery.
land	means land excluding waters and the atmosphere.
maximum	means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
median	means the middle value for a data set covering a 12 month period, 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.
mg/L	means milligrams per litre.
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.
the Act	means the *Environmental Protection Act 1994*.
total Nitrogen	means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen.
you	means the holder of the environmental authority.

µg/L	means micrograms per litre.
80th percentile	means the values from a set of data covering a 12 month period where at least eight tenths (8/10) of the data are smaller.
End conditions for Part 2	

Part 3: Cardwell Seafood Processing Plant

Agency interest: Water

Condition number	Condition
P3-W1	**Release Points** Contaminants must not be directly released from any source on the licensed place to any waters at any location other than the contaminants and sources of the locations listed below: (a) Release Point W1 – Seafood processing wastes from grease trap overflow to earthen drainage channel between pond 57 and pond 48.
P3-W2	**Quality Characteristics of Release to Waters** The release of contaminants to waters must comply, at the sampling and in-situ measurement point/s specified in condition number P3-MR8, with each of the limits specified in *Table 1: Release Quality Characteristic Limits*, for each quality characteristic. **Table 1: Release Quality Characteristic Limits**
P3-W3	For all parameters in *Table 1: Release Quality Characteristic Limits*, except dissolved oxygen concentration, where a **median** and/or **80th percentile** and/or **maximum** limit is specified, the set of data describing the release quality characteristics must have a **median** lower in value than the **median** limit and/or an **80th percentile** lower in value than the **80th percentile** limit and/or a **maximum** lower in value than the **maximum** limit. For dissolved oxygen concentration, the set of data describing the release quality characteristics must have a **minimum** higher in value than the **minimum** limit.
P3-W4	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.

QUALITY CHARACTERISTICS	RELEASE POINT	DISCHARGE LIMIT	LIMIT TYPE
Suspended Solids (**mg/L**)	W1	50/70/200	**Median/80th Percentile/Maximum**
pH (pH Units)	W1	6.5 - 8.7	**Range**
Dissolved Oxygen (**mg/L**)	W1	3.5	**Minimum**
Total Nitrogen (mg/L)	W1	2.0/2.5/4.0	**Median/80th Percentile/Maximum**
Chlorophyll a (**µg/L**)	W1	20/200	**Median/Maximum**
Total Phosphorus as P (**mg/L**)	W1	0.4/60	**80th Percentile/Maximum**

Agency interest: Stormwater Management	
Condition number	**Condition**
P3-SM1	**Spillage Control** All existing chemical tank storages must be within a spillage control **compound** sufficient to contain at least 100% of the largest storage tank.
P3-SM2	All chemical tank storages constructed after 1 August 1996 must be within a spillage control **compound** sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the **compound**.
P3-SM3	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**.
P3-SM4	All chemical package storage and handling areas must be within a spillage control **compound** sufficient to contain at least 100% capacity of the largest package plus 25% of the storage capacity up to 10,000 L, together with 10% of the storage capacity beyond 10,000 L.
P3-SM5	Notwithstanding condition number P3-SM3, floors forming part of the spillage control **compound** for the chemical package storage and handling areas must be impervious and not liable to degradation.
P3-SM6	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.
Agency interest: Waste Management	
Condition number	**Condition**
P3-WM1	**Trade Waste Agreements** Records of trade waste agreements must be made available for inspection on request.
P3-WM2	**Notification of Improper Disposal of Regulated Waste** If **you** become aware that a person has removed regulated waste from the licensed place and disposed of the regulated waste in a manner which is not authorised by this environmental authority or improper or unlawful, then **you** must, as soon as practicable, notify the **administering authority** of all relevant facts, matters and circumstances known concerning the disposal.

Agency interest: Monitoring and Reporting	
Condition number	**Condition**
P3-MR1	**Incident Recording** A record must be maintained of events including, but not limited to: (a) the time, date and duration of equipment malfunctions where failure of such equipment may result in environmental contamination; (b) any shut-down of treatment systems.
P3-MR2	**Notification of Emergencies and Incidents** 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, **you** must notify the **administering authority** of the release by telephone, facsimile or submission of a program notice in accordance with Section 333 of **the Act**.
P3-MR3	The notification of emergencies or incidents as required by condition number P3-MR2 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 **you** became aware of the release; (g) the suspected cause of the release; (h) the environmental harm and/or environmental nuisance caused, threatened, or suspected to be caused by the release; and (i) actions taken to prevent any further release and mitigate the environmental harm and/or environmental nuisance caused by the release, unless a program notice in accordance with Section 333 of **the Act** is submitted.
P3-MR4	Not more than three (3) months following the initial notification of an emergency or incident, **you** must provide written advice of the information supplied in accordance with condition number P3-MR3, 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.

P3-MR5

A draft environmental management program dealing with the activity submitted to the **administering authority** for approval fulfils the requirements of condition number P3-MR4 (a).

P3-MR6

You are 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 2*.

Table 2

QUALITY CHARACTERISTIC DETERMINATION	RELEASE POINT	FREQUENCY
Suspended Solids (by NATA accredited laboratory method)	W1	once per month in each month that a discharge occurs and once per day on each day an indicative field measurement indicates that the **maximum** licence limit is exceeded
pH	W1	on each day that a discharge occurs
Dissolved Oxygen	W1	on each day that a discharge occurs
Temperature - Celsius degrees	W1	on each day that a discharge occurs
Total Nitrogen as N	W1	once per month in each month that a discharge occurs
Chlorophyll a	W1	once per month in each month that a discharge occurs
Total Phosphorus as P	W1	once per month in each month that a discharge occurs
Turbidity or Suspended Solids (by indicative field measurement)	W1	on each day that a discharge occurs

P3-MR7

Sampling and Monitoring Point Details

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

(a) W1 – Samples are to be taken and in-situ measurements made at the discharge structure to Mary Creek near its mouth adjacent to pond 10 of Stage One.

(b) W2 – Samples are to be taken and in-situ measurements made at the discharge structure to Pig Creek at 1.8km AMTD adjacent to pond 5 of Stage Two.

P3-MR8

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 for analysis before an accurate analytical result is obtained; or

(b) the analysis of the primary sample is not considered to be accurate.

P3-MR9

All determination of the quality of contaminants released to waters must be made in accordance with methods prescribed in the **administering authority's** *Water Quality Sampling Manual, 2nd Edition, February 1995*, or more recent additions or supplements to that document as become available.

P3-MR10	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
P3-MR11	**Report Submission** **You** 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.
P3-MR12	**Exception Reporting** **You** must notify the **administering authority** in writing of any monitoring result which indicates an exceedance of any license limit within 28 days of completion of analysis.
P3-MR13	The written notification required by condition number P2-MR14 above must include: (a) the full analysis results; and (b) details of investigation or corrective actions taken; and (c) any subsequent analysis.
P3-MR14	Submission of a program notice in accordance with Section 333 of **the Act** fulfils the requirements of condition numbers P2-MR14 and P2-MR15.

Agency interest: Approved Documents	
Condition number	**Condition**
P3-AD1	The environmentally relevant activity must be constructed, operated and maintained in accordance with all undertakings of the environmental authority application and supporting the application and any other documents approved by the **administering authority** as set out in the Approved Documents conditions.
P3-AD2	In the event of any inconsistency arising between the undertakings of the environmental authority application or other approved documents as set out in the Approved Documents conditions and the conditions of this environmental authority, the conditions of this environmental authority must apply.

Definitions:

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

Word/ phrase	**Definition**
administering authority	means the Department of Environment and Heritage Protection or its successor or predecessors.
bund	means an embankment or wall which may form part or all of the perimeter of a **compound**.

compound	means an area bounded by natural ground contours or by a **bund**, sufficiently impervious to retain spillage or leakage pending recovery.
land	means land excluding waters and the atmosphere.
maximum	means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
median	means the middle value for a data set covering a 12 month period, 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.
mg/L	means milligrams per litre.
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.
the Act	means the *Environmental Protection Act 1994*.
total Nitrogen	means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen.
you	means the holder of the environmental authority.
µg/L	means micrograms per litre.
80th percentile	means the values from a set of data covering a 12 month period where at least eight tenths (8/10) of the data are smaller.
End conditions for Part 3	

Part 4: Flying Fish Point Hatchery	
Agency interest: General	
Condition number	**Condition**
P4-G1	**You** must: (a) install and operate all works and control equipment; and (b) take all measures, perform all acts and do all things necessary to ensure compliance with the conditions of this environmental authority.
Agency interest: Air	
Condition number	**Condition**
P4-A1	Notwithstanding any other conditions of this environmental authority, no release of contaminants from the licensed place is to cause a noxious or offensive odour beyond the boundaries of the licensed place.
Agency interest: Water	
Condition number	**Condition**
P4-W1	The only contaminants permitted to be released from the licensed place at the Release Points W1, W2, W3, W4, as shown in Schedule 1 – Appendix 1 Site Plan, are aquaculture wastes from the hatchery and grow-out ponds.
P4-W2	**Release Points** 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: (a) Release Points W1, W2, W3, W4 – Aquaculture wastes to waters described as an unnamed swamp east of the premises.
P4-W3	**Quantity of Contaminants Released** The total quantity of contaminants released from Release Points W1, W2, W3, W4 during any day must not exceed 6,200 cubic metres in total.

<table>
<tr><td>P4-W4</td><td>Quality Characteristics of Release to Waters

The release of contaminants to waters must comply, at the sampling and in-situ measurement point(s) specified in condition number P4-MR2, with each of the limits specified in Table 1: Release Quality Characteristic Limits for each quality characteristic.

Table 1: Release Quality Characteristic Limits

<table>
<tr><th>QUALITY CHARACTERISTICS</th><th>RELEASE POINTS</th><th>RELEASE LIMIT</th><th>LIMIT TYPE</th></tr>
<tr><td>Suspended Solids (mg/L)</td><td>W1, W2, W3, W4</td><td>50/70/200</td><td>Median/80th percentile/Maximum</td></tr>
<tr><td>ph (ph Units)</td><td>W1, W2, W3, W4</td><td>6.5-8.7</td><td>Range</td></tr>
<tr><td>Dissolved Oxygen (mg/L)</td><td>W1, W2, W3, W4</td><td>3.5</td><td>Minimum</td></tr>
<tr><td>Total Nitrogen (mg/L)</td><td>W1, W2, W3, W4</td><td>2.0/2.5/5.0</td><td>Median/80th percentile/Maximum</td></tr>
<tr><td>Total Phosphorus (mg/L)</td><td>W1, W2, W3, W4</td><td>0.40/0.60</td><td>Median/Maximum</td></tr>
<tr><td>Chlorophyll a (µg/L)</td><td>W1, W2, W3, W4</td><td>50/200</td><td>80th percentile/Maximum</td></tr>
</table></td></tr>
<tr><td>P4-W5</td><td>For all parameters in Table 1: Release Quality Characteristic Limits, except dissolved oxygen concentration, where a median and/or 80th percentile and/or maximum limit is specified, the set of data describing the release quality characteristics must have a median lower in value than the median limit and/or an 80th percentile lower in value than the 80th percentile limit and/or a maximum lower in value than the maximum limit.</td></tr>
<tr><td>P4-W6</td><td>For dissolved oxygen concentration, the set of data describing the release quality characteristics must have a minimum higher than the minimum limit.</td></tr>
<tr><td>P4-W7</td><td>The release 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.</td></tr>
<tr><td colspan="2">Agency interest: Stormwater Management</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P4-SM1</td><td>Pond Sludge Conditions Areas

Runoff from pond sludge stockpiles must be managed so that it does not directly enter natural waterways.</td></tr>
<tr><td colspan="2">Agency interest: Land Application</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td colspan="2">Nil site specific conditions.</td></tr>
</table>

<table>
<tr><th colspan="2">Agency interest: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>P4-N1</td><td>Emission of Noise
The environmentally relevant activity must be carried out by such practicable means necessary to prevent the emission or likelihood of emission of noise that constitutes environmental nuisance.</td></tr>
<tr><td>P4-N2</td><td>Where it is not practicable to prevent any emission of noise as required by condition number P4-N1, the environmentally relevant activity must be carried out by such practicable means necessary to minimise any such emission of noise that constitutes annoyance.</td></tr>
<tr><td>P4-N3</td><td>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 must not result in levels greater than those specified in Table 2: Noise Limits.
Table 2: Noise Limits
<table>
<tr><th>Noise Level at a Noise Sensitive Place Measured as the Adjusted Maximum Sound Pressure Level $L_{(Amax\ adj,\ T)}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 5 dB(A)</td><td>7 am – 6 pm</td></tr>
<tr><td>Background noise level plus 5 dB(a)</td><td>6 pm – 10 pm</td></tr>
<tr><td>Background noise level plus 3 dB(a)</td><td>10 pm – 7 am</td></tr>
<tr><th>Noise Limits at a Commercial Place Measured as the Adjusted Maximum Sound Pressure Level $L_{(Amax\ adj,\ T)}$</th><th>Period</th></tr>
<tr><td>Background noise level plus 10 dB(A)</td><td>7 am – 6 pm</td></tr>
<tr><td>Background noise level plus 10dB(A)</td><td>6 pm – 10 pm</td></tr>
<tr><td>Background noise level plus 8 dB(A)</td><td>10 pm – 7 am</td></tr>
</table></td></tr>
</table>

Agency interest: Monitoring and Reporting

Condition number	Condition
P4-MR1	**Monitoring of Contaminant Release to Waters** **You** are 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 3: Required Release Point Determinations*. **Table 3: Required Release Point Determinations**

DETERMINATION REQUIRED	RELEASE POINT NUMBERS	FREQUENCY
Suspended Solids	Any of W1, W2, W3, or W4	Twice annually
pH	Any of W1, W2, W3, or W4	Twice annually
Dissolved Oxygen	Any of W1, W2, W3, or W4	Twice annually
Total Nitrogen	Any of W1, W2, W3, or W4	Twice annually
Total Phosphorus	Any of W1, W2, W3, or W4	Twice annually
Chlorophyll a	Any of W1, W2, W3, or W4	Twice annually

P4-MR2	**Sampling and Monitoring Point Details** Determinations of the quality of contaminants released to waters to check conformity with the release quality characteristics specified in the Water conditions of this environmental authority must be undertaken at the sampling and measurement point(s) described as: (a) Any one of W1, W2, W3, W4, provided the sample is from grow-out pond discharge waters, or a combination of grow-out pond/harvest discharge waters.
P4-MR3	All determinations of the quality of contaminants released to waters must be made in accordance with the methods prescribed in the **administering authority's** *Water Quality Sampling Manual, 2nd Edition, February 1995*, or a more recent additions or supplements to that document as such become available.
P4-MR4	All determinations of the quality of contaminants released must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
P4-MR5	**Report Submission** The results of the release point monitoring program must be submitted to the **administering authority** as soon as they become available.

Definitions:

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

Word/phrase	Definition
administering authority	means the Department of Environment and Heritage Protection or its successor or predecessors.

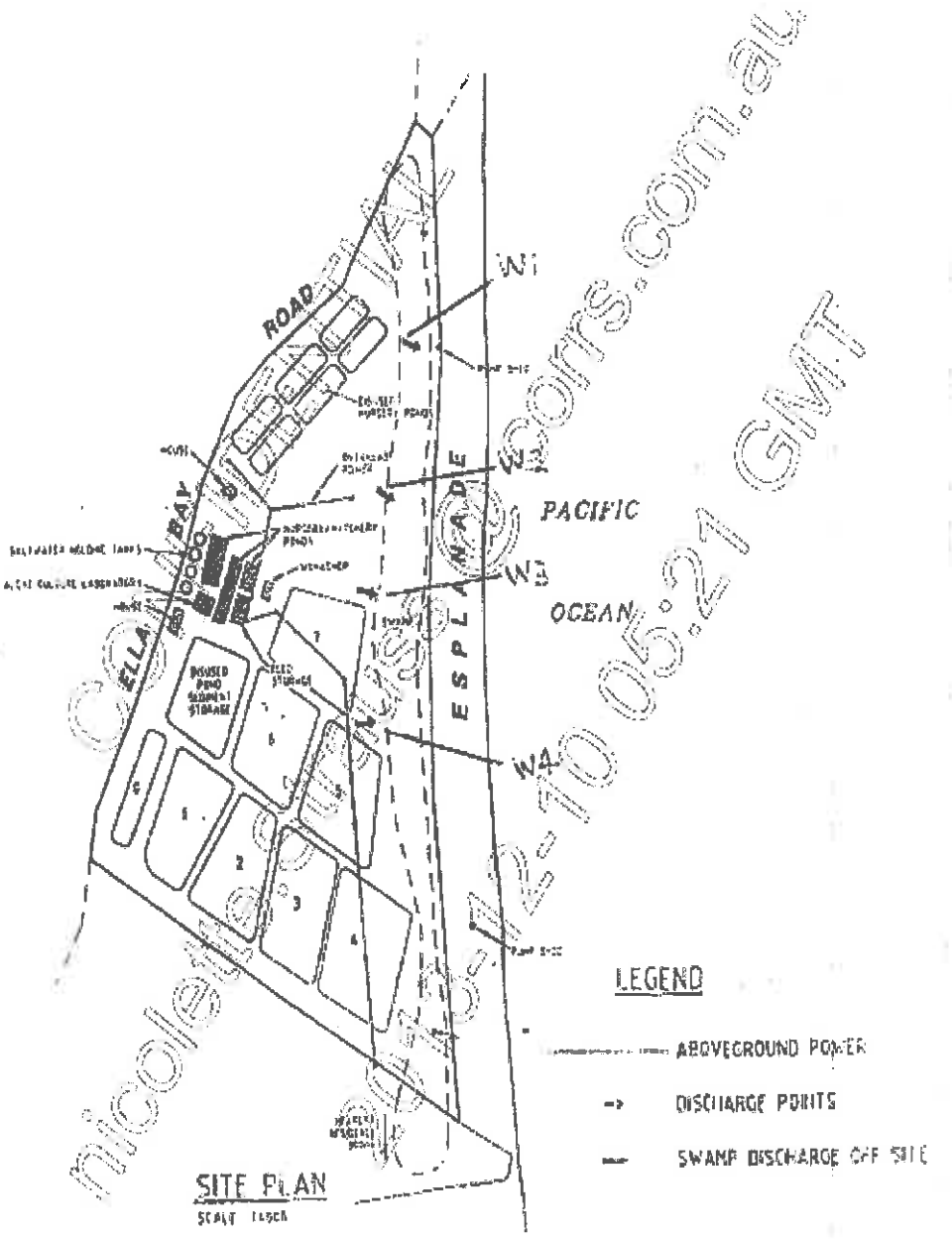
background noise level	means $L_{(A90, T)}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period not less than fifteen (15) minutes using Fast response.
commercial place	means a place used as an office or for business or commercial purposes.
$L_{(Amax\ adj, T)}$	means 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.
maximum	means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated.
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.
mg/L	means milligrams per litre.
minimum	means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated.
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 park or gardens.
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.
total Nitrogen	means the sum of Organic Nitrogen, Ammonia Nitrogen, Nitrite plus Nitrate Nitrogen.
you	means the holder of the environmental authority.
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 where the time interval between the taking of each consecutive sample is not less than three days.
End conditions for Part 4	

Schedules

Schedule 1 - Approved plans

Appendix 1 - Site Plan Applicable to Part 4

Lot 235 on Plan NR7590. Aquaculture Ponds and Release Points W1, W2, W3 and W4.



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