



## Health Management & Mortality Management Plan (HMP) Inspection (with reference to requirements of HMP and C.O.L. Dec2010)

**NB. Section19:** Unless otherwise noted: *“For all types of management plans referenced in this licence..., the licence holder shall keep all records required by these conditions... on-site for the duration of the production cycle...”*

### Operation Description and Information Reported to DFO

AQLicence #: \_\_\_\_\_ and Company Name: \_\_\_\_\_

Fish transfer inventory (s.4.1(b), 4.2(b): \_\_\_\_\_ & approx. date of last transfer: \_\_\_\_\_

Elevated mortality reports (s.14.1) (>4000kg, if any): YES  NO  Date: \_\_\_\_\_

Average lice abundance (as per latest report, (s. 9.2): NA

Fem: \_\_\_\_\_ Mot: \_\_\_\_\_ Chal: \_\_\_\_\_ Calig: \_\_\_\_\_ Report Date: \_\_\_\_\_

Any dates where “>3 trigger” was reached in past 3 months? YES  Date: \_\_\_\_\_ NO

Pens reported as last assessed for lice: NA  Ref Pen: \_\_\_\_\_; Pen \_\_\_\_\_; Pen \_\_\_\_\_

Most recent Fish Health Events reported (if any) (s.9.3): \_\_\_\_\_

Inspection date and time: \_\_\_\_\_

Farm personnel interviewed: \_\_\_\_\_

HMP inspection conducted by DFO staff: \_\_\_\_\_

Additional activities on this inspection date: Fish Health  Sea Lice  Other:  \_\_\_\_\_

\*Requirements highlighted in yellow are important and need immediate on-site discussion or attention, if deemed deficient by DFO staff.

### 1. Biosecurity (s.14.2a(vi); 13.24; HMP s.5)

- Is a functional footbath present at all arrival locations? YES  NO
- Type of disinfectant used in bath: Virkon  Bleach  Ovadine  Pucks  Other
- Is there a footbath at other critical traffic points on-site (i.e. ramps)? YES  NO  NA
- While on-site, was the footbath used by site staff? YES  NO  Not Observed
- Is there evidence, other than footbaths, of minimizing potential pathogen transfer (i.e. sanitizers, sprayers, net dips, other)? YES  NO
- Are footbaths and disinfection liquid(s) disposed of in mort totes? YES  NO  Other: \_\_\_\_\_

#### Visitor protocol (s.15.2; HMP s.5):

- Are there signs directing visitors to a well-marked moorage areas / dock? YES  NO
- Are there signs indicating restricted moorage areas? (e.g. at mort float) YES  NO
- Are visitor and biosecurity procedures communicated? YES  NO

## 2. Feed, Nutrition & Medication (App V. Required Elements HMP; (s.5))

- Is feed stored in a contained, protected location (not in weather elements)? YES  NO
- Are feeds on site within best before date? YES  NO  NA
- Is feed, observed as being fed to fish, free of visible mould or contaminants? YES  NO  Not Observed

### If medicated feed is on-site (s.7.2; 5):

- If yes, is it recorded in the Rx file on-site? YES  NO  NA
- If yes, are the med feed bags easily identified and properly stored? YES  NO  NA

## 3. Monitoring Water Quality (HMP s.5; 7.1(k))

- Are microscopes and other plankton monitoring equipment available? YES  NO
- Is equipment available for measuring water quality? YES  NO
- Is equipment on-site to respond to blooms or low D.O. (e.g. tarps, bubble curtains, air compressors, etc.)? YES  NO  NA
- Are records of water quality on-site? YES  NO
- If yes, are they up-to-date? YES  NO  NA
- If yes, is there evidence of increased monitoring during poor water quality events (e.g. plankton bloom or low oxygen)? YES  NO  NA

## 4. Fish Health - Carcass Retrieval Protocols (s.14.2a thru c; HMP s.5)

### If carcass retrieval occurred during this assessment: NA

- If divers, are they following basic HMP biosecurity protocols? YES  NO  NA
- Does staff wear raingear, gloves and rubber boots during collection? YES  NO  NA
- Is disinfectant used during the carcass collection? YES  NO  NA
- Is carcass collection equipment (dive rings, dip nets) disinfected between pens? YES  NO  NA
- Is there evidence of designated carcass containers? YES  NO  NA
- **\*Are the carcasses properly covered & contained to facilitate biosecurity?** YES  NO  NA

### From records/observation: (s.7.1c; 14.2; HMP s.5)

- Does staff categorize carcasses? YES  NO
- Is carcass collection performed by a known and effective method? YES  NO
- Method used: Divers  Pump  Bottom rings  Other: \_\_\_\_\_
- Is there a routine schedule for carcass collection from pens? YES  NO
- **\*Does the frequency facilitate early detection of disease (i.e. fresh silvers)?** YES  NO
- Is a mort float located away from the production fish? YES  NO  NA : \_\_\_\_\_
- If yes, does the mort float meet biosecurity principles (safe, secure, etc)? YES  NO  NA : \_\_\_\_\_
- If no mort float, where are the carcasses stored? \_\_\_\_\_ How long? \_\_\_\_\_

## 5. Fish Health / Husbandry Records (s.7.1; 7.2; 7.4; 19.2; HMP s.5)

- Do written/computer records address:
  - Mortality number or rate? YES  NO  NA
  - Carcass classifications? YES  NO  NA
  - Sampling events (if any)? YES  NO  NA
  - Is this a single year class production unit? YES  NO  NA Brood
  - Is this a single species production unit? YES  NO
  - Fish movements: is species on-site listed on the licence? YES  NO  NA
  - Is there written confirmation of in/out fish transfers? (s.4.1(b)) YES  NO  NA
  - If yes, are veterinary attestations attached? (s.4.1b(iv)) YES  NO  NA
  - If yes are treatment records from previous facility accessible?(s7.2(j,k)) YES  NO  NA/hatchery
  - Prescription records are current (i.e. TMS, antibiotics, SLICE)? (if any)? YES  NO  NA
  - Is daily administration of med feed recorded (i.e. pens & feed amounts)? YES  NO  NA
  - Other types of mitigative actions logged (i.e. net changes, split fish, etc.)? YES  NO  NA
  - Carcass evaluation and sampling by fish health staff is recorded? YES  NO  NA/Town
  - Indications that fish health and mortality records can be, or are, reviewed by the company veterinarians or fish health staff? (s.7.4; s.19.2) YES  NO  NA/Town

**6. SEA LICE – Handling Procedures** (Atlantics, s.6; Appendix VII)

NA  (not Atl. Salmon, s.6.4)

If Pacific salmon: do records indicate intermittent/opportunistic monitoring of lice? (s.6.4) YES  NO

**If lice counts occurred during this HMP assessment:**

- Are staff following fish-gathering protocols (as per s.6; Appendix VII; HMP) (i.e. crowding first then random selection)? YES  NO  NA
- Method of capture was: Large seine  Box seine  Shallowed net  Chum/dip  Other \_\_\_\_\_
- Were methods (i.e. feed used) to facilitate the capture of representative fish? YES  NO  NA
- Are staff using anaesthetic properly (i.e. able to handle fish in 1 - 2 minutes)? YES  NO  NA
- \*Are fish adequately contained (catch nets, low stress, adequate tote size)? YES  NO  NA
- Are staff handling fish to ensure accurate lice enumeration? YES  NO  NA
- Are staff handling fish in a manner that minimizes fish stress and trauma? YES  NO  NA
- Are staff categorizing the lice into required life-stages and species? YES  NO  NA

**From records:**

- Do counts, last reported by farm to DFO, agree with farm records (s.9.1)? YES  NO  NA
- If an average of >3 motiles/fish has been experienced by this farm in the past 3 months, has monitoring increased to at least biweekly? YES  NO  NA
- Do sea lice records address:
  - All sea lice assessment dates and count results? YES  NO  Last date: \_\_\_\_\_
  - 3 groups of 20 fish within a monthly, or semi-monthly, assessment? YES  NO
  - Is there a designated reference population identified in records? YES  NO
  - Is that reference pop. known and sampled by staff each count? YES  NO

**7. Fish Handling, Euthanasia, Welfare** (s.8; s.14; HMP s.5)

- If major culls/euthanasia events occurred, have they been recorded? YES  NO  NA 
  - Do the records indicate the method of euthanasia or anaesthesia? YES  NO
- The carcass collection was free of live wild fish (s.11.2)? YES  NO  NA 
  - If no, were live fish recorded in an incidental catch & release log (s.11.4)? NA
- The farmed mort collection was free of wild fish carcasses (s.11.3; 14.2(b))? YES  NO  NA 
  - If no, were wild carcasses recorded in an incidental catch log (s.11.4)? NA

**8. Disease Outbreak / Kill Contingency Plan** (s.8; HMP s.5)

- \*Is information readily available to contact fish health expertise/ team? YES  NO
- Is the Manager/staff aware of farm isolation procedures? YES  NO
- Does a Mass Mortality plan or procedure exist on-site (s.5; s.14.2; s.19.2)? YES  NO 
  - If there is a company HMP/MMP document on-site,
    - Date of last review by staff (of pertinent marine sections): \_\_\_\_\_
    - If no HMP/MMP is on-site, where is it available to staff? Town  Other: \_\_\_\_\_

**INSPECTION RESULT:** This facility had \_\_\_\_\_ inspection items checked **YES** from a total of \_\_\_\_\_ \* applicable inspection items (maximum number = 68 yes)

\*If an inspection item is not applicable (NA) then that line item is subtracted from the maximum total (eg. 68 – 14 NA's)

**Other Inspection Notes / Comments** (e.g. weather, staff or resource limitations, etc.):

My observations of other Conditions of License may require C&P attention. YES  NO   
If yes, C&P staff was contacted for follow-up. YES  NO  NA   
Photos taken? YES  By whom: \_\_\_\_\_ NO   
If photos taken, they have been titled, dated & filed according to License number. YES  NO

Fisheries and Oceans staff signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Print name): \_\_\_\_\_

Farm staff signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(Print name): \_\_\_\_\_

Agency Veterinarian's sign-off: \_\_\_\_\_ Date: \_\_\_\_\_  
(Print name): \_\_\_\_\_

A pdf copy of this Inspection Checklist was emailed to the company: YES  NO

The company's Health Rep/Vet was subsequently contacted by DFO: YES  NO  NA

Additional Veterinary notes: