



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE
GOVERNOR

PATRICIA W. AHO
COMMISSIONER

October 3, 2011

Ms. Jennifer Robinson
Phoenix Salmon US, Inc.
1 Estes Head Road
Eastport, ME 04631
jennifer.robinson@cookeaqua.com

*Sent via electronic mail
Delivery confirmation requested*

**RE: *Maine Pollutant Discharge Elimination System (MEPDES) Permit /
Maine Waste Discharge License (WDL)
Finalized MEPDES Permits for the Following Six (6) Facilities***

#ME0110361 – Sand Island	#ME0110507 – Cross Island
#ME0110388 – Broad Cove	#ME0110515 – Cross Island North
#ME0110426 – Black Island	#ME0110401 – Spectacle Island

Dear Ms. Robinson:

Enclosed, please find a copy of each of your above-referenced **final** MEPDES permit modifications or permit modifications/transfers, which were approved by the Department of Environmental Protection. Please read the permits and their attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State law and is subject to enforcement action.

Any interested person aggrieved by a Department determination made pursuant to applicable regulations, may appeal the decision following the procedures described in the attached DEP FACT SHEET entitled "*Appealing a Commissioner's Licensing Decision.*"

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04679-2094
(207) 764-0477 FAX: (207) 760-3143

Letter to Phoenix Salmon US, Inc.
October 3, 2011
Page 2 of 2

Sincerely,



Bill Hinkel
Division of Water Quality Management
Bureau of Land and Water Quality
bill.hinkel@maine.gov
ph: 207.485.2281

Enc.

ec: Matt Young, MeDEP
Stacie Beyer, MeDEP
Lori Mitchell, MeDMR
Sylvia Brann, MeDMR
Diantha Robinson, MeDMR
Sandy Mojica, USEPA
Respective Permit Files



DEPARTMENT ORDER

PHOENIX SALMON US, INC.)	MAINE POLLUTANT DISCHARGE
CUTLER, WASHINGTON COUNTY, MAINE)	ELIMINATION SYSTEM PERMIT
AQUACULTURE – CROSS ISLAND)	AND
DMR SITE DESIGNATION – MACH CI2)	WASTE DISCHARGE LICENSE
#ME0110507)	
#W009005-6G-C-M)	TRANSFER AND MODIFICATION
APPROVAL)	

Pursuant to the provisions of the *Federal Water Pollution Control Act*, Title 33 USC, §1251, *Conditions of licenses*, 38 M.R.S.A. § 414-A, and applicable regulations, the Department of Environmental Protection (Department) has considered the application of the PHOENIX SALMON US, INC. (permittee) to transfer and modify Waste Discharge License (WDL) #W009005-5Q-A-N / Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0110507, which was issued to Atlantic Salmon of Maine, LLC on April 10, 2007, and WDL / MEPDES permit minor revision #W009005-5Q-B-M, which was issued on October 26, 2009. The April 10, 2007 permit and October 26, 2009 minor permit revision are scheduled to expire concurrently on April 10, 2012. With its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

PERMIT TRANSFER AND MODIFICATION SUMMARY

With respect to the transfer of the April 10, 2007 permit, the permittee has provided documentation of title, right or interest in the subject project by way of a lease agreement between the Maine Department of Marine Resources and Phoenix Salmon US, Inc. dated July 6, 2011, and documentation of financial capacity by way of letter from National Bank dated August 9, 2011.

The October 26, 2009 minor permit revision modified portions of Special Conditions E, *Monitoring requirements*, and G, *Impact thresholds*, of the April 10, 2007 permit to be consistent with the Atlantic Salmon Aquaculture General Permit issued by the Department on September 22, 2008. In this permitting action, the Department is modifying Special Conditions E and G established in the October 26, 2009 minor permit revision to be consistent with the Atlantic Salmon Aquaculture General Permit Modification issued by the Department on March 2, 2011. **This permit modification REPLACES Special Conditions E and G of the October 26, 2009 WDL / MEPDES minor permit revision.**

CONCLUSIONS

Based on the findings in the attached Fact Sheet, dated October 3, 2011, and subject to the Conditions listed below, the Department makes the following **CONCLUSIONS**:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with state law.

CONCLUSIONS (cont'd)

3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S.A. § 464(4)(F), will be met, in that:
 - (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
 - (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
 - (c) The standards of classification of the receiving water body are met or, where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;
 - (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and
 - (e) Where a discharge will result in lowering the existing water quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.
4. The discharges will be subject to effluent limitations that require application of best practicable treatment as defined in 38 M.R.S.A. § 414-A(1)(D).

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ACTION

THEREFORE, the Department hereby APPROVES the above noted application of PHOENIX SALMON US, INC. to TRANSFER AND MODIFY Waste Discharge License #W009005-5Q-A-N / Maine Pollutant Discharge Elimination System permit #ME0110507 and subsequent minor permit revision #W009005-5Q-B-M, which were issued to Atlantic Salmon of Maine, LLC on April 10, 2007 and October 26, 2009, respectively, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits*, revised July 1, 2002, copy attached to April 10, 2007 permit.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. All terms and conditions in combination WDL #W009005-5Q-A-N / MEPDES permit #ME0110507, dated April 10, 2007, and minor permit revision # W009005-5Q-B-M, dated October 26, 2009, not modified by this permitting action remain in effect and enforceable.
4. This permit modification expires on April 10, 2012, concurrent with the April 10, 2007 WDL / MEPDES permit. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of the April 10, 2007 permit, the terms and conditions of the April 10, 2007 permit and all modifications and minor revisions thereto remain in effect until a final Department decision on the renewal application becomes effective. [*Maine Administrative Procedure Act*, 5 M.R.S.A. § 10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (effective April 1, 2003)]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

Date of initial receipt of application: July 25, 2011

Date of application acceptance: August 10, 2011

This Order prepared by Bill Hinkel, BUREAU OF LAND & WATER QUALITY

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS

1. **Sampling information.** For all benthic monitoring samples collected, the permittee shall measure and maintain records of the following information. All monitoring information and records required by the permit shall be kept current at all times and made available to representatives of the Department, MeDMR, and USEPA upon request.
 - a. The sampling location, recorded as latitude and longitude to the nearest one-tenth second
 - b. The date and time of day
 - c. The current direction in relation to true north
 - d. The tidal stage to the nearest one-half meter above/below mean low water
 - e. The depth of water
2. **Baseline monitoring. Before a facility commences operation at a site not used for aquaculture in the previous 5 years,** the facility shall submit baseline site information describing the intended site to the Department. This information shall include the site's location, water depth, temperature, salinity, current flow, dissolved oxygen profiles, bottom type(s), sediment grain size, evidence of out-gassing, sulfide, copper, zinc and a description of the kinds and abundance of flora and fauna present to the lowest practical taxonomic level at sufficient locations to fully describe conditions at the site. A minimum of three benthic baseline samples shall be collected for each bottom type at the facility location and analyzed to allow for statistical comparisons. Baseline sampling shall be conducted in accordance with a sampling plan approved by the Department, and shall be done during the months of August through October, unless otherwise approved by the Department. To the extent relevant and acceptable data are available from previous studies, they may be used.
3. **Feed discharge and fish monitoring requirements.** The facility shall maintain and **report monthly** to the Department, on a reporting form approved by the Department, the following information.
 - a. The number of net pens in use, including type, size and configuration;
 - b. The age, weight and number of fish in each net pen;
 - c. The number and total weight of fish contained in all net pens in use;
 - d. The total amount of feed added to each net pen; and
 - e. The total amount of feed added to all net pens.
4. **Video and photographic monitoring requirements.** The facility shall conduct color video or photographic evaluations of the sea floor under and adjacent to each net pen system at a minimum frequency of **once per month during the months of April through October, inclusive, of each year beginning 60 days after stocking one or more net pens.** Multiple evaluations may be needed where independent pens or systems preclude coverage by one transect. Monitoring and evaluation shall be conducted in accordance with methods specified by the Department.

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

The Department may provide a permittee with an annual written waiver for the spring monitoring for individual facilities when: 1) there have been no fish on the site since the previous video monitoring event; or 2) monitoring the preceding fall indicates that the warning levels specified in Special Condition G are not exceeded and there are no other indications of adverse conditions resulting from the facility's operation; and 3) the permittee provides written request (return receipt required for postal mail; delivery receipt required for electronic mail) to the Department compliance inspector for consideration of said waiver.

Table E.4. Video and photographic monitoring requirements. ¹⁻⁵

Monitoring Characteristic	Substrate Video Monitoring/Transect			
	Transect Beneath Pens	Transect 60 m up-current from edge of pens	Transect 60 m down-current from edge of pens	Frequency
Video Records or Photographs of Substrate	Report	Report	Report	1/Month Apr-Oct
<i>Beggiatoa</i> and <i>Capitella</i> mats	Report	Report	Report	1/Month Apr-Oct
Gas Formation	Report	Report	Report	1/Month Apr-Oct

Footnotes to Table E.4.

1. Reports of monitoring shall include the date(s) on which monitoring was conducted and the video records or photographs, along with all supporting information including a site schematic of the video track or still photo locations in relation to the net pens. The beginning and ending points of transects, all sample points, and all reference site sample points, if applicable, shall be located by GPS following Department standards, including but not limited to, an accuracy of less than 10 meters.

Video records and schematic of the video track shall be submitted to the Department **as soon as possible following a reasonable opportunity to review data prior to submission, or within 15 days following the monitoring event, which ever period is sooner.**

The permittee shall **immediately report** to the Department any evidence of non-compliance, water quality or benthic impacts observed during the video survey.

Written reports of video/photographic monitoring events must be submitted to the Department **as soon as possible following a reasonable opportunity to review data prior to submission and no later than 30 days following the monitoring event.** Written reports must describe all conditions specified in Footnote #2 below.

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

Footnotes to Table E.4. (cont'd)

The Department may provide a written extension for these data submission deadlines if necessary due to extenuating circumstances beyond the control of the permittee.

2. Except as provided below, the survey shall be documented with continuous video footage. The recorded survey shall document:
 - a. The sediment type and color, as well as features, noting erosional or depositional areas;
 - b. The flora/fauna observed as to their relative abundance;
 - c. The presence of feed pellets or other debris lost as a result of the facility operation;
 - d. The presence of *Beggiatoa* or *Capitella* type mats and its growth described as light, moderate, or heavy;
 - e. Relative abundance of *Beggiatoa* or *Capitella* shall be characterized approximately as follows: abundant (frequently present within the video coverage); common (seen occasionally throughout the video coverage or existing in patches); rare (only seen once or in a few places throughout the dive);
 - f. The presence of black or dark colored sediments, spontaneous or induced gassing, or the presence of pimpled sediments. **Sediments shall be tested for gassing by at least two separate hand swipes wherever *Beggiatoa* or *Capitella* type mats or dark colored sediments are observed or at random locations if mats or dark sediments are not observed;** and
 - g. The location and appearance of any nets located on the bottom and their locations relative to the pen system, the extent to which the net(s) is buried beneath sediments.
3. If water depths at a facility exceed the State of Maine's safe working depth limit of 85 feet for SCUBA diving or divers determine that conditions are not safe to perform the scheduled video monitoring event, video surveys normally conducted by divers may instead be obtained using one or more of the following methods: a video camera mounted on a tethered sled, a tethered drop still camera, tethered drop video camera or equivalent. If still photos are taken with a tethered camera, one photograph shall be taken at least every 10 meters along each transect. If divers determine that they can not safely conduct the video monitoring, 1) the video monitoring event shall be rescheduled, if possible, when safe diving conditions resume; or 2) the monitoring event may proceed using the alternate methodologies specified above and the permittee shall provide as part

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

Footnotes to Table E.4. (cont'd)

of the written video/photographic report(s) documentation of the unsafe condition(s) and reason(s) the video survey could not be rescheduled.

4. A video/photo transect shall be conducted beneath the pens (or, if not possible due to depths beyond 85 feet or physical constraints, directly adjacent to the up-current edge of the pens) along an axis representing the direction of the prevailing current, and extend 60 meters beyond the pen system on each end, and located to best reflect the extent of the facility's impact on benthic conditions. Video coverage of sediments beneath or adjacent to feed or service barges shall be noted on the video narrative.
5. The video coverage shall be in color, and of sufficient detail and clarity to allow for the accurate assessment of benthic conditions. The camera should be positioned at a height above the substrate that will provide approximately one square meter of bottom coverage, and be illuminated with sufficient artificial light to enable the accurate identification of epibenthic organisms and sediment conditions. A brief written narrative with the video record or photos describing reference points shall be provided. All video documentation shall include the dates on which it was taken, the direction of the current, and the geographic positions of the start and endpoints of the transects. The Department reserves the right to require a permittee to conduct additional video or photo transects if: 1) the quality of the videos/photos is deemed insufficient or not representative to determine compliance with this permit or applicable water quality standards; or 2) conditions observed in the videos/photos warrant additional monitoring to determine compliance with this permit.

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

5. **Sediment and benthic monitoring requirements.** The permittee shall conduct monitoring of the sediments on the sea floor as follows. Benthic monitoring shall focus on sediment conditions and the infaunal community. The reference site is described in Special Condition F. The Department may require that the monitoring required by this condition be continued following removal or relocation of a net pen as necessary to evaluate residual impacts. Monitoring and evaluation shall be conducted in accordance with methods specified by the Department.

Table E.5. Sediment and benthic grab sample monitoring requirements. ⁽¹⁾ ⁽²⁾ ⁽³⁾ ⁽⁸⁾

Monitoring Characteristics	Sample Stations and Reporting Requirements		Minimum Monitoring Frequency Requirements
	Within the mixing zone	30 m from net pens	
Sulfide ⁽⁴⁾	Report uM	Report uM	2/year in Apr-May and Aug-Oct ⁽⁵⁾
Benthic Infauna ⁽⁹⁾ [Taxa Present, Taxa Abundance, Total Abundance minus abundance of <i>Capitella capitata</i> , and Shannon-Wiener Diversity Index]	Report /0.1 square m	Report /0.1 square m	1/5 years ⁽⁶⁾
Percent Solids	Report %	Report %	1/5 years ⁽⁶⁾
Sediment grain size	Report % sand, silt, clay and gravel	Report % sand, silt, clay and gravel	1/5 years ⁽⁶⁾
Total Organic Carbon in Sediment	Report mg/g	Report mg/g	1/5 years ⁽⁶⁾
Copper, Total metal	Report mg/kg Dry weight	Report mg/kg Dry weight	1/5 years ⁽⁷⁾
Zinc, Total metal	Report mg/kg Dry weight	Report mg/kg Dry weight	1/5 years ⁽⁷⁾
Medications used ⁽¹⁰⁾	Report ug/kg Dry weight	Report ug/kg Dry weight	Not less than 7 days nor more than 30 days following use of each medication

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

Footnotes to Table E.5.

1. Sampling stations. Samples for all parameters (“Monitoring Characteristics” listed in Table E.5) shall be collected in triplicate from four sampling stations required by this section. Results for all individual samples shall be reported to the Department in addition to mean values. The transect utilized for sediment sampling shall be the same as that utilized for video/photo monitoring as described in Special Condition E.4 Footnote #4 (that is, along an axis representing the direction of the prevailing current, and extending 60 meters beyond the pen system on each end, and located to best reflect the extent of the facility’s impact on benthic conditions).

There shall be a minimum of 4 sampling stations along the transect with a minimum of 2 on each end of the net pens to represent conditions outside of and within the designated mixing zone as follows:

- a. Outside Mixing Zone: Along the transect at a point 30 meters from the outside edge of the pens
- b. Within Mixing Zone: Samples shall be collected along the transect at a point 5 meters from the outside edge of the pens. However, the Department reserves the right to require sampling at other specific locations based on reviews of video records or other site-specific considerations.

At each of the 4 sample stations, a minimum of 3 individual samples (total of 12 discrete sample points) shall be collected along a line perpendicular to the transect line. One sample shall be taken adjacent to the transect line and the other two samples shall be taken at a distance of 2 meters away from the transect line in both directions. If a sample is not possible at the 2-meter distance due to rocky conditions or other impediments, the sample should be taken as close to the 2-meter point as possible.

In order to fully evaluate conditions, the Department may require additional sampling locations on a case-by-case-basis.

2. Sampling times. Sediment and benthic monitoring shall be conducted at the same time that video monitoring is conducted.
3. Sediment sample collection, handling, preservation, storage, and analysis shall be conducted in accordance with USEPA approved methods.
4. Sulfide monitoring. Core samples for sulfide must consist of the top 2 cm of the seafloor. If sediment grain size or sediment depth at one or more sampling locations does not allow for the collection of sediments for sulfide analysis as required herein, the permittee shall provide a narrative in the report required by this section describing these.

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

Footnotes to Table E.5. (cont'd)

5. Sulfide monitoring shall be conducted at least **twice per year** (once during the months of April – May and once during the months of August – October). The Department may provide an individual facility with an annual written waiver for the April – May sulfide sampling event if the video monitoring is waived pursuant to Special Condition E.4 of this permit.
6. Benthic infauna, sediment grain size, total organic carbon monitoring, percent solids, and metals (copper and zinc) shall be monitored at least **once every 5 years** during the months of August – October and sampling shall be performed in the first year when fish at the facility are at or near their maximum biomass for that growing cycle.

The Department reserves the right to require additional benthic infauna sampling based on best professional judgment taking into account the timing, frequency and severity of monitoring results that exceed the Warning Level or Impact Limit thresholds for any parameter established in Special Condition G of this permit modification, *Warning and Impact Thresholds*. When benthic infauna testing is determined to be the most appropriate Department response to an exceedence, the permittee shall coordinate with the Department to ensure monitoring is performed as soon as possible after such a determination is made.

The Department reserves the right to require more frequent or additional sediment or benthic infauna measurements for an individual facility based on test results, video surveys, or other relevant information.

Sediment grain size, total organic carbon monitoring, metals (copper and zinc) and percent solids determinations shall be performed **every time benthic infauna are sampled**.

7. Copper and zinc monitoring. Measurements shall be conducted **once every five years and each time benthic infauna measurements are made**, and shall be performed at a time when fish at the facility are at or near their maximum biomass for that monitoring period. Reports shall include the percent solids of the sediment sampled. Core samples for metals must consist of the top 2 cm of the seafloor.
8. Reports shall include the date(s) of the sampling and the results of the analyses, along with all supporting information including a site schematic of the sample locations. Reports, in a format approved by the Department, **shall be submitted to the Department within 150 days** of the monitoring event. However, based on prior monitoring or other information that indicate the facility may be adversely impacting the sediment, the Department may require, in writing, earlier submission of monitoring reports. The Department may provide a written extension for this submission deadline if necessary due to extenuating circumstances beyond the control of the permittee.

SPECIAL CONDITIONS

E. MONITORING REQUIREMENTS (cont'd)

Footnotes to Table E.5. (cont'd)

9. Single core samples of 4 inches or greater in diameter shall be taken from the sediment for taxa measurements (infauna samples) and must be inserted to resistance or 15 cm, whichever is less. Depth of the core shall be reported. Infauna samples shall be sieved through a 1.0 mm mesh sieve. Organisms shall be fixed in 10% buffered formalin solution and stained with a 1% Rose Bengal staining solution. After one day or more in the formalin solution, the formalin shall be replaced with 70% ethanol to ensure preservation of the organism's integrity. Organisms shall be identified to the lowest practical taxonomic level, enumerated, and reported to the Department in raw form and per square meter or 0.1 m². Species diversity, richness, total abundance and total abundance minus the number of *Capitella capitata* shall also be reported. Shannon-Weiner Diversity Index results shall not be reported if the cumulative number of organisms present in all samples from one sampling station is less than 50. Reference specimens shall be maintained at the facility (or facility headquarters) for examination by Department staff or its designee for a period of at least 3 years following collection. The Department may require more specific identification of organisms in order to determine compliance with this permit.

10. Sediment monitoring for medications shall include analysis for the compound(s) used and any known primary metabolites. The Department may provide a written waiver for this monitoring requirement if the facility provides conclusive evidence (as determined by the Department) that medications used do not pose a potential to accumulate in sediments or organisms for sufficient time as to pose a potential threat to water quality or aquatic life. Core samples for medications must consist of the top 2 cm of the seafloor.

SPECIAL CONDITIONS

G. WARNING LEVEL AND IMPACT THRESHOLDS

With respect to the sediment and benthic monitoring specified in Special Conditions E.4 and E.5 of this permit modification, the following criteria will be applied by the Department in determining if discharges from a facility are causing or contributing to impairment of the State's water quality criteria.

Table G.1. Sediment Mixing Zone [under or within 30 m of net pen(s)] Warning and Impact Thresholds At Any Sampling Station.

<u>Metric</u>	<u>Warning Level</u>	<u>Impact Limit</u>
Sulfide ⁽¹⁾	Mean 2500 – 6000 uM at any station	Mean >6000 uM at any station
<i>Beggiatoa</i> Coverage	≥25% photo coverage ^{(2) (3)}	≥ 50% photo coverage ^{(2) (3)}
Benthic Infauna ⁽⁴⁾	>50% reduction of total abundance minus <i>Capitella</i> <i>capitata</i> AND >70% total abundance composed of <i>Capitella capitata</i>	Report Information

Table G.2. Sediment Impact Thresholds At Any Sampling Station Beyond Sediment Mixing Zone (≥ 30 m from the nets pens).

<u>Metric</u>	<u>Impact Limits</u>
Class SB waters	The habitat must be characterized as unimpaired. Discharges shall be of sufficient quality to support all estuarine and marine species indigenous to the receiving water without detrimental changes to the resident biological community
Benthic Infauna	>25% decrease in total abundance minus <i>Capitella capitata</i> AND >25% total abundance composed of <i>Capitella capitata</i>
Sulfide ⁽¹⁾	Mean >3000 uM at any station
<i>Beggiatoa</i> Coverage	>10% photo coverage

SPECIAL CONDITIONS

G. WARNING LEVEL AND IMPACT THRESHOLDS (cont'd)

Footnotes to Tables G.1 and G.2:

1. Mean values for sulfide shall be the average of all individual samples collected at a station at a given distance from the net pens (for example, mean value of all samples taken at a distance of 30 meters from net pen). **Results of individual samples shall also be provided to the Department.**
2. Percent coverage shall be determined by the Department from the review of video footage and /or photographs taken beneath or adjacent to each net pen.
3. Unless similar abundance or values exist in the baseline or reference site specified in this permit, or are the result of natural conditions, as determined by the Department based on best professional judgment.
4. Benthic infauna criteria shall be evaluated taking into consideration changes in grain size and the number of organisms in each sample.

The forgoing impact limits represent one definition of conditions that would represent non-attainment of narrative water quality standards. To assess compliance, the Department may consider the results of monitoring conducted pursuant to this permit, the conditions found in available baseline or reference site for comparative purposes and other available information. This information may include, but is not limited to, total abundance, diversity indices, dominant taxa, the percentage of mollusks, echinoderms and crustaceans, and trophic levels. In doing so, the Department may determine that other conditions found at an individual station may constitute a violation of narrative water quality standards.

The Department may take into account the presence of pollution-sensitive species when making a determination about the impact under this section. A list of pollution-sensitive taxa is determined from pre-operation baseline studies and/or available reference site specified in this permit. Such species include, but are not limited to, amphipods and cumaceans. Pollution-tolerant taxa include: *Capitella capitata*, Oligochetata, and other taxa that may be present as determined from baseline information and/or the reference site.

Physical disturbance such as harrowing, dragging, or other mechanical means shall not be used to mitigate bottom conditions unless approved in writing by the Department.

The permittee shall notify the Department as soon as it has reason to believe the warning levels that are specified for the Sediment Mixing Zone may be exceeded. At that time, or upon notification by the Department, the facility shall review its past operations and propose any changes that it deems necessary to assure that impact levels are not exceeded. If the degree by which warning levels are exceeded in subsequent monitoring events is increased, or if an impact level is exceeded at any time, the facility shall include in its notification, for the Department's for review and approval, a plan and implementation schedule for modification of operations. Such modifications may include, but are not limited

SPECIAL CONDITIONS

G. WARNING LEVEL AND IMPACT THRESHOLDS (cont'd)

Footnotes to Tables G.1 and G.2 (cont'd):

to, reducing standing stock, reduced feeding, and/or fallowing of the site. New fish shall only be stocked into pens as described in a plan approved by the Department. The Department may require additional monitoring to determine the effectiveness of these measures or continuing trends in benthic conditions.

**MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
AND
MAINE WASTE DISCHARGE LICENSE**

FACT SHEET

DATE: **OCTOBER 3, 2011**

PERMIT NUMBER: **ME0110507**
LICENSE NUMBER: **W009005-6G-C-M**
DMR SITE DESIGNATION: **MACH C12**

NAME AND ADDRESS OF APPLICANT

**PHOENIX SALMON US, INC.
1 ESTES HEAD ROAD
EASTPORT, MAINE 04631**

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

**CROSS ISLAND
MACHIAS BAY
CUTLER, MAINE**

COUNTY: **WASHINGTON COUNTY**

RECEIVING WATER/CLASSIFICATION: **MACHIAS BAY/CLASS SB**

COGNIZANT OFFICIAL AND TELEPHONE NUMBER: **JENNIFER ROBINSON
COMPLIANCE OFFICER
(207) 853-6081
jennifer.robinson@cookeaqua.com**

1. PERMIT MODIFICATION SUMMARY

PHOENIX SALMON US, INC. (permittee) has applied to the Maine Department of Environmental Protection (Department) to transfer and modify Waste Discharge License (WDL) #W009005-5Q-A-N / Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0110507, which was issued to Atlantic Salmon of Maine, LLC on April 10, 2007, and WDL / MEPDES permit minor revision #W009005-5Q-B-M, which was issued on October 26, 2009. The April 10, 2007 permit and October 26, 2009 minor permit revision are scheduled to expire concurrently on April 10, 2012. **This permit transfer and modification REPLACES Special Conditions E and G of the October 26, 2009 WDL / MEPDES minor permit revision.**

1. PERMIT MODIFICATION SUMMARY (cont'd)

The bases for the modifications made in this permitting action are discussed in detail in the fact sheets associated with the September 22, 2008 Atlantic Salmon Aquaculture General Permit and the Atlantic Salmon Aquaculture General Permit Modification issued on March 2, 2011.

2. CONDITIONS OF PERMITS

Conditions of licenses, 38 M.R.S.A. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require application of best practicable treatment (BPT), be consistent with the U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Surface Water Classification System. In addition, 38 M.R.S.A., § 420 and *Surface Waters Toxics Control Program*, 06-096 CMR 530 (effective October 9, 2005) require the regulation of toxic substances not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants*, 06-096 CMR 584 (effective October 9, 2005), and that ensure safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected.

3. RECEIVING WATER QUALITY STANDARDS

Classifications of estuarine and marine waters, 38 M.R.S.A. § 469 classifies Machias Bay at the point of discharge as a Class SB waterbody. *Standards for classification of estuarine and marine waters*, 38 M.R.S.A. § 465-B(2) contains the standards for Class SB waters.

4. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

Based on all available information, the Department has determined that the modifications carried out through this permit modification will allow the existing water uses to be maintained and protected provided the permittee complies with the terms and conditions established herein and in the April 10, 2007 permit.

5. PUBLIC COMMENTS

Public notice of this application was made in the *Bangor Daily* newspaper on or about July 22, 2011. The Department receives public comments on an application until the date a final agency action is taken on the application. Those persons receiving copies of draft permits shall have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to *Application Processing Procedures for Waste Discharge Licenses*, 06-096 CMR 522 (effective January 12, 2001).

6. DEPARTMENT CONTACTS

Additional information concerning this permitting action may be obtained from, and written comments sent to:

Bill Hinkel
Division of Water Quality Management
Bureau of Land & Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 485-2281
e-mail: bill.hinkel@maine.gov

7. RESPONSE TO COMMENTS

During the period of August 25, 2011 through the issuance date of the final permit modification, the Department solicited comments on the proposed draft Maine Pollutant Discharge Elimination System Permit modification to be issued to Phoenix Salmon US, Inc. for the proposed discharges. The Department did not receive significant comments on the draft permit modification; therefore, a Response to Comments was not prepared.



DEP INFORMATION SHEET

Appealing a Commissioner's Licensing Decision

Dated: May 2004

Contact: (207) 287-2811

SUMMARY

There are two methods available to an aggrieved person seeking to appeal a licensing decision made by the Department of Environmental Protection's (DEP) Commissioner: (1) in an administrative process before the Board of Environmental Protection (Board); or (2) in a judicial process before Maine's Superior Court. This INFORMATION SHEET, in conjunction with consulting statutory and regulatory provisions referred to herein, can help aggrieved persons with understanding their rights and obligations in filing an administrative or judicial appeal.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

DEP's *General Laws*, 38 M.R.S.A. § 341-D(4), and its *Rules Concerning the Processing of Applications and Other Administrative Matters* (Chapter 2), 06-096 CMR 2.24 (April 1, 2003).

HOW LONG YOU HAVE TO SUBMIT AN APPEAL TO THE BOARD

The Board must receive a written notice of appeal within 30 calendar days of the date on which the Commissioner's decision was filed with the Board. Appeals filed after 30 calendar days will be rejected.

HOW TO SUBMIT AN APPEAL TO THE BOARD

Signed original appeal documents must be sent to: Chair, Board of Environmental Protection, c/o Department of Environmental Protection, 17 State House Station, Augusta, ME 04333-0017; faxes are acceptable for purposes of meeting the deadline when followed by receipt of mailed original documents within five (5) working days. Receipt on a particular day must be by 5:00 PM at DEP's offices in Augusta; materials received after 5:00 PM are not considered received until the following day. The person appealing a licensing decision must also send the DEP's Commissioner and the applicant a copy of the documents. All the information listed in the next section must be submitted at the time the appeal is filed. Only the extraordinary circumstances described at the end of that section will justify evidence not in the DEP's record at the time of decision being added to the record for consideration by the Board as part of an appeal.

WHAT YOUR APPEAL PAPERWORK MUST CONTAIN

The materials constituting an appeal must contain the following information at the time submitted:

1. *Aggrieved Status.* Standing to maintain an appeal requires the appellant to show they are particularly injured by the Commissioner's decision.
2. *The findings, conclusions or conditions objected to or believed to be in error.* Specific references and facts regarding the appellant's issues with the decision must be provided in the notice of appeal.
3. *The basis of the objections or challenge.* If possible, specific regulations, statutes or other facts should be referenced. This may include citing omissions of relevant requirements, and errors believed to have been made in interpretations, conclusions, and relevant requirements.
4. *The remedy sought.* This can range from reversal of the Commissioner's decision on the license or permit to changes in specific permit conditions.

5. *All the matters to be contested.* The Board will limit its consideration to those arguments specifically raised in the written notice of appeal.
6. *Request for hearing.* The Board will hear presentations on appeals at its regularly scheduled meetings, unless a public hearing is requested and granted. A request for public hearing on an appeal must be filed as part of the notice of appeal.
7. *New or additional evidence to be offered.* The Board may allow new or additional evidence as part of an appeal only when the person seeking to add information to the record can show due diligence in bringing the evidence to the DEP's attention at the earliest possible time in the licensing process or show that the evidence itself is newly discovered and could not have been presented earlier in the process. Specific requirements for additional evidence are found in Chapter 2, Section 24(B)(5).

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

1. *Be familiar with all relevant material in the DEP record.* A license file is public information made easily accessible by DEP. Upon request, the DEP will make the material available during normal working hours, provide space to review the file, and provide opportunity for photocopying materials. There is a charge for copies or copying services.
2. *Be familiar with the regulations and laws under which the application was processed, and the procedural rules governing your appeal.* DEP staff will provide this information on request and answer questions regarding applicable requirements.
3. *The filing of an appeal does not operate as a stay to any decision.* An applicant proceeding with a project pending the outcome of an appeal runs the risk of the decision being reversed or modified as a result of the appeal.

WHAT TO EXPECT ONCE YOU FILE A TIMELY APPEAL WITH THE BOARD

The Board will formally acknowledge initiation of the appeals procedure, including the name of the DEP project manager assigned to the specific appeal, within 15 days of receiving a timely filing. The notice of appeal, all materials accepted by the Board Chair as additional evidence, and any materials submitted in response to the appeal will be sent to Board members along with a briefing and recommendation from DEP staff. Parties filing appeals and interested persons are notified in advance of the final date set for Board consideration of an appeal or request for public hearing. With or without holding a public hearing, the Board may affirm, amend, or reverse a Commissioner decision. The Board will notify parties to an appeal and interested persons of its decision.

II. APPEALS TO MAINE SUPERIOR COURT

Maine law allows aggrieved persons to appeal final Commissioner licensing decisions to Maine's Superior Court, see 38 M.R.S.A. § 346(1); 06-096 CMR 2.26; 5 M.R.S.A. § 11001; & MRCivP 80C. Parties to the licensing decision must file a petition for review within 30 days after receipt of notice of the Commissioner's written decision. A petition for review by any other person aggrieved must be filed within 40-days from the date the written decision is rendered. The laws cited in this paragraph and other legal procedures govern the contents and processing of a Superior Court appeal.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal process, contact the DEP's Director of Procedures and Enforcement at (207) 287-2811.

Note: The DEP provides this INFORMATION SHEET for general guidance only; it is not intended for use as a legal reference. Maine law governs an appellant's rights.
