



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION
AUGUSTA, ME 04333

DEPARTMENT ORDER

IN THE MATTER OF

THE TRAILING YEW, LLC)	MAINE POLLUTANT DISCHARGE
MONHEGAN ISLAND PLANTATION)	ELIMINATION SYSTEM PERMIT
LINCOLN COUNTY, MAINE)	
OVERBOARD DISCHARGE)	AND
ME0037508)	
W007629-5C-H-R)	WASTE DISCHARGE LICENSE
APPROVAL)	RENEWAL

In compliance with the provisions of the *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, *Conditions of licenses*, 38 M.R.S. § 414-A, and applicable regulations, the Department of Environmental Protection (Department) has considered the application of the THE TRAILING YEW LLC(Permittee), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On March 18, 2019, the Department accepted as complete for processing an application from The Trailing Yew LLC for the renewal of a Maine Waste Discharge License (WDL) W007629-5C-F-R which was issued by the Department on December 17, 2013, for a five-year term. The permit issued on December 17, 2013, authorized the seasonal discharge (May 1st – October 31st) from a commercial overboard discharge of up to 4,800 gallons per day (gpd) of untreated or secondary treated sanitary wastewater from THE TRAILING YEW to Monhegan Harbor, Class SB water, in Monhegan Island Plantation, Maine. This renewal will be the first time that THE TRAILING YEW will be permitted under the Maine Pollutant Discharge Elimination System (MPDES) and has been assigned permit number ME0037508/ Maine Waste Discharge License (WDL) W007629-5C-H-R.

PERMIT SUMMARY

This permitting action is establishing seasonal (April 15th–November 1st) monitoring and reporting limits in addition to the following terms and conditions;

1. Establishing limits with monitoring and reporting requirement for flow of 4,800 gallons per day (gpd);
2. Establishing limits with 1/month monitoring and reporting requirements for biochemical oxygen demand (BOD);
3. Establishing limits with 1/month monitoring and reporting requirements for total suspended solids (TSS);

PERMIT SUMMARY (cont'd)

4. Establishing limits with 1/month monitoring and reporting requirements for BOD & TSS percent removal of 85 percent;
5. Establishing limits with 1/month monitoring and reporting requirements for settleable solids of 0.3 mg/L;
6. Establishing limits with 1/month monitoring and reporting requirements for total residual chlorine (TRC);
7. Establishing limits with 1/month monitoring and reporting requirements for Fecal Coliform bacteria from April 15st-November 1st;
8. Establishing limits with 1/month monitoring and reporting requirements for Enterococci bacteria from April 15th-October 31st; and
9. Establishing limits with 1/month monitoring and reporting requirements for pH.

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CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated September 11, 2020, 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.
3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S. §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) Where the standards of classification of the receiving waterbody are not met, the discharge will not cause or contribute to the failure of the waterbody to meet the standards of classification;
 - (d) Where the actual quality of any classified receiving waterbody 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 waterbody, 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 Maine law, 38 M.R.S., §414-A(1)(D).
5. The overboard discharge system was in continuing existence for the 12 months preceding June 1, 1987.
6. A non-discharging subsurface waste water disposal system could not be installed in compliance with the Maine Subsurface Waste Water Disposal Rules at the time the renewal application was accepted for processing by the Department.
7. A publicly-owned sewer line is not located on or abutting land owned or controlled by the permittee or is not available for the permittee's use.
8. The discharge is not located within the boundaries of a sanitary district or sewer district.

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ACTION

THEREFORE, the Department APPROVES the application of THE TRAILING YEW, LLC to discharge 4,8000 gallons per day of secondary treated sanitary wastewater on a seasonal basis (April 15th - November 1st) from An eight (8) building seasonal Inn and restaurant complex, to the Atlantic Ocean at Monhegan Harbor, Class SB, in Monhegan Island Plantation, Maine, SUBJECT TO ALL APPLICABLE STANDARDS AND REGULATIONS AND THE FOLLOWING CONDITIONS:

1. *“Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable to All Permits,”* revised July 1, 2002, copy attached.
2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
3. This permit and the authorization to discharge become effective upon the date of signature below and expire at midnight five (5) years from the effective date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this permit, the authorization to discharge and the terms and conditions of this 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. §10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (last amended June 9, 2018)].

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS _____ DAY OF _____, 2020.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
for Melanie Loyzim, Acting Commissioner

Date of initial receipt of application: March 18, 2019

Date of application acceptance: March 18, 2019

Date filed with Board of Environmental Protection: _____

This Order prepared by Rod Robert, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- The permittee is authorized to discharge secondary treated sanitary wastewater from **Outfall #001** to the Atlantic Ocean at Monhegan Harbor, Class SB. Such discharges are limited and must be monitored by the permittee as specified below⁽¹⁾:

April 15st- November 1st

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow <i>[50050]</i>	Report gpd <i>[07]</i>	---	4,800 gpd <i>[07]</i>	---	---	---	Continuous <i>[99/99]</i>	Metered <i>[MT]</i>
BOD ₅ <i>[00310]</i>	1.2 lbs./day <i>[26]</i>	1.8 lbs./day <i>[26]</i>	2.0 lbs./day <i>[26]</i>	30 mg/L <i>[19]</i>	45 mg/L <i>[19]</i>	50 mg/L <i>[19]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
BOD ₅ Percent Removal ⁽²⁾ <i>[81010]</i>	---	---	---	85% <i>[23]</i>	---	---	1/Month <i>[01/30]</i>	Calculate <i>[CA]</i>
TSS <i>[00530]</i>	1.2 lbs./day <i>[26]</i>	1.8 lbs./day <i>[26]</i>	2.0 lbs./day <i>[26]</i>	30 mg/L <i>[19]</i>	45 mg/L <i>[19]</i>	50 mg/L <i>[19]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
TSS Percent Removal ⁽²⁾ <i>[81011]</i>	---	---	---	85% <i>[23]</i>	---	---	1/Month <i>[01/30]</i>	Calculate <i>[CA]</i>
Settleable Solids <i>[00545]</i>						0.3 ml/L <i>[25]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>
Fecal Coliform Bacteria ⁽³⁾⁽⁴⁾ <i>[31633]</i>	---	---	---	14 CFU/100 mL ⁽⁴⁾ <i>[13]</i>	---	31 CFU/100 ml <i>[13]</i>	1/Month ⁽⁴⁾ <i>[02/30]</i>	Grab <i>[GR]</i>
Enterococci Bacteria ⁽³⁾⁽⁴⁾ (April – Oct 31), beginning April 15 th 2022) <i>[31639]</i>				8 CFU/100 mL ⁽⁴⁾ <i>[13]</i>	---	54 CFU /100 mL <i>[13]</i>	1/Month ⁽⁴⁾ <i>[01/30]</i>	Grab <i>[GR]</i>
Total Residual Chlorine ⁽⁴⁾⁽⁵⁾ <i>[50060]</i>	---	---	---	---	---	1.0 mg/L <i>[19]</i>	1/Month ⁽⁴⁾ <i>[02/30]</i>	Grab <i>[GR]</i>
pH (Standard Unit) <i>[00400]</i>	---	---	---	---	---	6.0 – 9.0 SU <i>[12]</i>	1/Month <i>[01/30]</i>	Grab <i>[GR]</i>

The italicized numeric values bracketed in the table and in subsequent text are code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports.

Footnotes: See Page 6 of this permit for applicable footnotes.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Footnotes

1. **Sampling** – All effluent monitoring must be conducted at a location following the last treatment unit in the treatment process as to be representative of end-of-pipe effluent characteristics. Sampling and analysis must be conducted in accordance with; a) methods approved by 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis must be analyzed by a laboratory certified by the State of Maine's Department of Health and Human Services for waste water testing. Samples that are sent to another POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 or laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (last amended December 19, 2018). If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or as specified in this permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report.
2. **Percent Removal** – The permittee must maintain a minimum of 85 percent removal of both BOD₅ and TSS for all flows receiving secondary treatment. The percent removal must be calculated based on influent and effluent concentration values. The permittee's wastewater treatment system does not contain an influent sampling location that is representative of raw wastewater conditions. Therefore, this permitting action authorizes the permittee to assume an influent BOD₅ and TSS concentration value of 286 mg/L for purposes of calculating the monthly percent removal value. See page 6 of the fact sheet for a basis statement.
3. **Fecal Coliform Bacteria** – The monthly fecal coliform average limitation is a **geometric mean** limitation and results must be calculated and reported as such.
4. **Enterococcus Bacteria Reporting** – Enterococcus bacteria limits are a **geometric mean** and monitoring requirements are seasonal running from April 15th – October 31st. These monitoring and reporting requirement must commence on April 15th, 2022.
5. **Total residual chlorine (TRC)** – Limitations and monitoring requirements are applicable whenever elemental chlorine or chlorine-based compounds are being used to disinfect the discharge. The permittee shall utilize approved test methods that are capable of bracketing the TRC limitation in this permit. There shall be at least 14 days between sampling events.

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SPECIAL CONDITIONS

B. ANNUAL DISCHARGE FEES

Pursuant to *Annual waste discharge license fees*, 38 M.R.S. § 353(B), the permittee is required to pay an applicable annual fee for discharges authorized by this permit. Failure to pay an annual fee within 30 days of the billing date of a permit is grounds for accruing interest charges, penalties or revocation of the permit.

C. NARRATIVE EFFLUENT LIMITATIONS

1. The permittee must not discharge effluent that contains a visible oil sheen, foam or floating solids at any time which would impair the uses designated for the classification of the receiving waters.
2. The permittee must not discharge effluent that contains materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the uses designated for the classification of the receiving waters.
3. The permittee must not discharge effluent that causes visible discoloration or turbidity in the receiving waters so that it causes those waters to be unsuitable for the designated uses and characteristics ascribed to their class.
4. The permittee must not discharge effluent that lowers the quality of any classified body of water below such classification or lowers the existing quality of any body of water if the existing quality is higher than the classification.

D. TREATMENT PLANT OPERATOR

The person that has direct responsibility for the operation of the treatment facility must be operated by a person holding a minimum of a **Maine Grade II** certificate (or higher) or must be a Maine Registered Professional Engineer pursuant to *Sewerage Treatment Operators*, 32 M.R.S. §4171-4182 and *Regulations for Wastewater Operator Certification*, 06-096 CMR 531 (effective May 8, 2006). All proposed contracts for facility operation by any person must be approved by the Department before the permittee may engage the services of the contract operator.

E. AUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with: 1) the permittee's General Application for Waste Discharge Permit, accepted for processing on March 18 ,2019. 2) the terms and conditions of this permit; and 3) only from Outfall #001. Discharges of wastewater from any other point source(s) are not authorized under this permit and must be reported in accordance with Standard Condition D(1)(F), *Twenty-four hour reporting*, of this permit.

SPECIAL CONDITIONS

F. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the permittee must notify the Department of the following.

1. Any substantial change or proposed change in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants into the system at the time of permit issuance.
2. For the purposes of this section, notice regarding substantial change must include information on:
 - (a) the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
 - (b) any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

G. SITE EVALUATION FOR TRANSFER OF OWNERSHIP

The owners of the overboard discharges subject to this permit are required to install a technologically proven alternative and properly abandon the overboard discharges when any of the following actions are initiated.

1. **Transfer of Ownership of Property or Significant Action** – Prior to transfer of ownership of property containing an overboard discharge (*i.e.*, change in the legal entity that owns a property, facility or structure that is the subject of a permit), the parties to the transfer shall determine the feasibility of technologically proven alternatives¹ to the overboard discharge. Prior to completing a significant action (*i.e.*, single construction project performed on a primary residence with an overboard discharge when the total material and labor cost of the construction project exceeds \$50,000), the owner shall determine the feasibility of technologically proven alternatives to the overboard discharge.
 - a) If an alternative to the overboard discharge is available, the alternative system must be installed within 90 days of property transfer or significant action, unless otherwise provided by *Waste discharge licenses*, 38 M.R.S. § 413(3-A).
 - b) If an alternative to the overboard discharge is not available, the new owner shall, no later than two weeks after any transfer of ownership, submit an application to the Department for transfer of this permit.

¹ Feasibility of technologically proven alternatives are based on determinations by a licensed site evaluator's application of plumbing standards adopted by the Department of Health and Human Services pursuant to Title 22, section 42.

SPECIAL CONDITIONS

G. REQUIREMENTS TO ELIMINATE OVERBOARD DISCHARGES (cont'd)

2. **Permit Renewal** – Waste Discharge Permits for overboard discharges are issued for a five-year term. The permittee shall submit a complete application for permit renewal prior to the expiration date of this permit to continue the discharge beyond the expiration date of this permit. If a technologically proven alternative system is available and;
 - a) The overboard discharge owner is eligible for grant funding², the alternative system must be installed within 180 days of written notification from the Department, unless otherwise provided by *Conditions of licenses*, 38 M.R.S. § 414-A(1-B); or
 - b) The overboard discharge owner is not eligible for grant funding, the alternative system must be installed prior to the expiration date of this permit.
3. **Abandonment of Overboard Discharge** – When an overboard discharge is no longer necessary or is replaced by technologically proven alternative system, it must be properly abandoned within 90 days following the requirements of *Overboard discharges: licenses and abandonment*, 06-096 CMR 596(8), including submission of Overboard Discharge Abandonment Certification Form #DEPLW0653A.

H. OPERATION & MAINTENANCE (O&M) PLAN

The permittee must have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which the permittee must at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

By December 31 of each year, or within 90 days of any process changes or minor equipment upgrades, the permittee must evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the wastewater treatment facility to ensure that it is up-to-date. The O&M Plan must be kept on site at all times and made available to Department and USEPA personnel upon request.

Within 90 days of completion of new and or substantial upgrades of the wastewater treatment facility the permittee must submit the updated O&M Plan to their Department inspector for review and comment.

² Grant eligibility is based on the cost-share schedule under *State contribution to residential overboard discharge replacement projects*, 38 M.R.S. § 411-A.

SPECIAL CONDITIONS

I. SEPTIC TANKS

1. Septic tanks and other treatment tanks must be regularly inspected (at least once per calendar year) and maintained to ensure that they are providing best practicable treatment. The permittee must maintain logs of inspections/maintenance that records the date, notes on observations, repairs conducted etc. The logs must be maintained on site at all times and made available to Department personnel upon request.
2. Tank contents must be removed whenever the sludge and scum occupies one-third of the tank's liquid capacity or whenever levels approach maximum design capacity. Following pumping, the tanks must be checked for damage at key joints and the inlet and outlet baffles, and repaired promptly if damaged. The permittee must keep a pumping log including the date of pumping, quantity of material removed, name and number of licensed contractor, and pumping frequency.

J. MONITORING AND REPORTING

Monitoring results obtained during the previous month must be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and **postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that the DMRs are received by the Department on or before the fifteenth (15th) day of the month** following the completed reporting period. A signed copy of the DMR and all other reports required herein must be submitted to the Department assigned inspector (unless otherwise specified by the Department) at the following address:

Overboard Discharge Compliance Inspector
Department of Environmental Protection
Bureau of Land and Water Quality
Division of Water Quality Management
17 State House Station
Augusta, Maine 04333-0017

Alternatively, if submitting an electronic DMR (eDMR), the completed eDMR must be electronically submitted to the Department by a facility authorized DMR Signatory not later than close of business on the 15th day of the month following the completed reporting period. Hardcopy documentation submitted in support of the eDMR must be postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that it is received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. Electronic documentation in support of the eDMR must be submitted not later than close of business on the 15th day of the month following the completed reporting period.

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K. REOPENING OF PERMIT FOR MODIFICATIONS

In accordance with 38 M.R.S. § 414-A(5) and upon evaluation of the tests results or monitoring requirements specified in Special Conditions of this permitting action, new site-specific information, or any other pertinent test results or information obtained during the term of this permit, the Department may, at any time and with notice to the permittee, modify this permit to: (1) include effluent limits necessary to control specific pollutants or whole effluent toxicity where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded; (2) require additional effluent or ambient water quality monitoring if results on file are inconclusive; or (3) change monitoring requirements or limitations based on new information.

L. SEVERABILITY

In the event that any provision or part thereof, of this permit is declared to be unlawful by a reviewing court, the remainder of the permit shall remain in full force and effect, and shall be construed and enforced in all aspects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

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

FACT SHEET

Date: **September 11, 2020**

MEPDES PERMIT: **ME0037508**
WASTE DISCHARGE LICENSE: **W007629-5C-H-R**

NAME AND ADDRESS OF APPLICANT:

**THE TRAILING YEW LLC
20 LOBSTER COVE ROAD
MONHEGAN ISLAND, ME 04852**

COUNTY: **LINCOLN COUNTY**

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

**THE TRAILING YEW LLC
MONHEGAN ISLAND PLANTATION**

RECEIVING WATER/CLASSIFICATION:

MONHEGAN HARBOR, ATLANTIC OCEAN/Class SB

COGNIZANT OFFICIAL AND TELEPHONE NUMBER: **Marion Chioffi, Owner**
(207) 596-0440
theyew@midcoast.com

1. APPLICATION SUMMARY

- a. Application: On March 18, 2019, the Department accepted as complete for processing an application from The Trailing Yew LLC for the renewal of a Maine Waste Discharge License (WDL) W007629-5C-F-R which was issued by the Department on December 17, 2013, for a five-year term. The permit issued on December 17, 2013, authorized the seasonal discharge (May 1st – October 31st) from a commercial overboard discharge of up to 4,800 gallons per day (gpd) of untreated or secondary treated sanitary wastewater from THE TRAILING YEW to Monhegan Harbor, Class SB water, in Monhegan Island Plantation, Maine. This renewal will be the first time that THE TRAILING YEW will be permitted under the Maine Pollutant Discharge Elimination System (MPDES) and has been assigned permit number ME0037508/ Maine Waste Discharge License (WDL) W007629-5C-H-R. A Location Map and Facility Schematic are included as Attachment A.

2. PERMIT SUMMARY

- a. Terms and Conditions: This permitting action is establishing seasonal (April 15th–November 1st) monitoring and reporting limits in addition to the following terms and conditions;

1. Establishing limits with monitoring and reporting requirement for flow of 4,800 gallons per day (gpd);
2. Establishing limits with 1/month monitoring and reporting requirements for biochemical oxygen demand (BOD);
3. Establishing limits with 1/month monitoring and reporting requirements for total suspended solids (TSS);
4. Establishing limits with 1/month monitoring and reporting requirements for BOD & TSS percent removal of 85 percent;
5. Establishing limits with 1/month monitoring and reporting requirements for settleable solids of 0.3 mg/L;
6. Establishing limits with 1/month monitoring and reporting requirements for total residual chlorine (TRC);
7. Establishing limits with 1/month monitoring and reporting requirements for Fecal Coliform bacteria from April 15st-November 1st;
8. Establishing limits with 1/month monitoring and reporting requirements for Enterococci bacteria from April 15th-October 31st; and
9. Establishing limits with 1/month monitoring and reporting requirements for pH.

- b. Facility history: This section provides a summary of the most significant regulatory actions Monhegan House:

January 12, 2001 – The Department began requiring all discharges of domestic wastewater (overboard discharges or OBDs) on Monhegan Island to achieve compliance with the secondary treatment requirements specified at 06-096 CMR 525(3)(III) and the best practicable treatment requirements specified at 06-096 CMR 596(9).

2. PERMIT SUMMARY (cont'd)

March 18, 2019 – The permittee submitted a complete application to the Department. The application was accepted for processing on March 18, 2019 and was assigned WDL W007629-5C-H-R and a MEPDES of 0037508.

- c. Source description: The discharge is from an inn complex on Monhegan Island Plantation Island consisting of a seasonal inn complex of eight buildings, with a 50-seat restaurant, guest houses, and an employee dormitory. The inn has a total of 25 guest bedrooms. The seasonal employees are housed in a dormitory building with 8 bedrooms.
- d. Wastewater treatment: All collection sewers to the various buildings are PVC gravity pipes. The Yew building, the restaurant, upstairs guest rooms and the cookhouse are served by two 1,000-gallon grease interceptors and a 1,000-gallon septic tank. This same 1,000-gallon septic tank also services the 8-bedroom Annex. All three tanks are located adjacent to the main Yew building and a long PVC gravity sewer with cleanouts conveys the discharged flow to the main secondary treatment tanks area southwest of the building known as the Seagull. The Seagull guest rooms and attached small laundry and service building, along with four other buildings containing guest rooms and a staff dormitory, are serviced by a 1,000-gallon septic tank prior to entering the main biological treatment system.

The main biological treatment system components consist of three BioCon Model San CR 1500 biological aerobic reactor tanks in series followed by two 1,000-gallon secondary settling tanks. Valving is in place to allow only BioCon units and one settling tank to be on line during periods of low flow. Aeration is supplied by two 6 cfm quiet aeration pumps per tank. These five tanks are followed by an in line chlor tab chlorinator followed by a 1,000-gallon contact tank. The final effluent is then discharged by gravity to Monhegan Harbor via a PVC OBD discharge pipe.

- e. Replacement options: Pursuant to 38 M.R.S. §414-A(1-B), the Department finds that the discharge from an OBD meets the requirements of best practicable treatment for purposes of licensing when it finds that there are no technologically proven alternative methods of wastewater disposal consistent with the plumbing code adopted by the Department of Health and Human Services pursuant to Title 22, section 42 that will not result in an overboard discharge. The Department's finding must be based on documentation from a licensed site evaluator (LSE) having experience in designing replacement systems for overboard discharges and provided by the overboard discharge owner.

3. CONDITIONS OF PERMIT

Conditions of licenses, 38 M.R.S. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require the 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, *Certain deposits and discharges prohibited*, 38 M.R.S. § 420 and Department rule *Surface Water Toxics Control Program*, 06-096 CMR 530 (effective March 21, 2012), 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 July 29, 2012), and that ensure safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected.

4. RECEIVING WATER QUALITY STANDARDS

Classification of estuarine and marine waters, 38 M.R.S. § 469(3-A) classifies all estuarine and marine waters lying within the boundaries of Lincoln County and that are not otherwise classified, which includes Monhegan Island Plantation at the point of discharge, as Class SB waters. *Standards for classification of estuarine and marine waters*, 38 M.R.S. § 465(B)(2) establishes classification standards for Class SB waters.

5. RECEIVING WATER QUALITY CONDITIONS

The State of Maine 2016 Integrated Water Quality Monitoring and Assessment Report, prepared by the Department pursuant to Sections 303(d) and 305(b) of the *Federal Water Pollution Control Act* Monhegan Island Plantation Island:

Category 5-B-1(a): Estuarine and Marine Waters Impaired by Bacteria Only-TMDL Required. The Maine Department of Marine Resources (MEDMR) closes shellfish harvesting areas if there are known sources of discharges with unacceptable bacteria levels (thresholds established in the National Shellfish Sanitation Program) or maintains shellfish harvesting closure areas due to lack of updated information regarding ambient water quality conditions and current shoreline surveys. In addition, the MEDMR prohibits shellfish harvesting in the immediate vicinity of all wastewater treatment outfall pipes as a precautionary measure in the event of a failure in the treatment plant's disinfection system.

Thus, shellfish harvesting area #26-A is closed to the harvesting of shellfish due to elevated fecal indicators. The shellfish closure area can be found at

<http://www.maine.gov/dmr/shellfish-sanitation-management/closures/pollution.html>

5. RECEIVING WATER QUALITY CONDITIONS (cont'd)

Category 5-D: *Estuarine and Marine Waters Impaired by Legacy Pollutants*. All estuarine and marine waters capable of supporting American lobster are listed in Category 5-D, partially supporting fishing ("shellfish" consumption) due to elevated levels of PCBs and other persistent, bioaccumulating substances in lobster tomalley.

The Department has no information that the discharge from the permittee, as conditioned, causes or contributes to non-attainment of applicable Class SB water quality standards.

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

- a. Best Practicable Treatment (BPT): The Department finds that the discharge meets the requirements of best practicable treatment pursuant to 38 M.R.S. § 414-A(1-B) for purposes of licensing when it finds that there are no technologically proven alternative methods of wastewater disposal consistent with the plumbing code adopted by the Department of Health and Human Services pursuant to Title 22, section 42 that will not result in an overboard discharge. Pursuant to *Overboard Discharges: Licensing and Abandonment*, 06-096 CMR 596(9), *Criteria and Standards for Waste Discharge Licenses* 06-096 CMR 524(2) (effective January 12, 2001) and 06-096 CMR 525(3)(III), BPT for overboard discharges is secondary treatment.

The secondary treatment regulation establishes technology-based effluent limitations for BOD₅, TSS, and pH which are discussed in more detail in the individual parameter sections below.

- b. Flow: The previous permitting action established, and this permitting action is carrying forward, a daily maximum flow limitation of 4,8000 gallons per day (GPD), which is based on the design of the treatment facility, and a daily maximum discharge flow monitoring and reporting requirement.
- c. Dilution Factors: 06-096 CMR 530(4)(A)(2)(a) states that, "*For discharges to the ocean, dilution must be calculated as near-field or initial dilution, or that dilution available as the effluent plume rises from the point of discharge to its trapping level, at mean low water level and slack tide for the acute exposure analysis, and at mean tide for the chronic exposure analysis using appropriate models determined by the Department such as MERGE, CORMIX or another predictive model.*" Based on the configuration of the proposed Outfall #001A and daily maximum discharge flow design criterion of 4,800 GPD, the Department has made a best professional judgment that dilution factors are as follows:

Acute = 100:1

Chronic = 150:1

Harmonic mean³ = 450:1

³The harmonic mean dilution factor is approximated by multiplying the chronic dilution factor by three (3). This multiplying factor is based on guidelines for estimation of human health dilution presented in the U.S. EPA publication, "*Technical Support Document for Water Quality-Based Toxics Control*" (Office of Water; EPA/505/2-90-

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

- d. Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS): This permitting action is establishing, a modified seasonal requirement (April 1 – November 30), monthly average and weekly average technology-based effluent limits (TBELs) of 30 mg/L and 45 mg/L. For BOD₅ and TSS pursuant to the secondary treatment regulation at 40 CFR 133.102 and 06-096 CMR 525(3)(III). This permitting action is also establishing a daily maximum TBELs of 50 mg/L for both BOD₅ and TSS based on a Department best professional judgment of best practicable treatment for secondary treated wastewater.

Monthly average, weekly average and daily maximum TBELs of 1.2 lbs./day 1.8 lbs./day, and 2.0 lbs./day, respectively, established in this permitting action for BOD₅ and TSS were based on the daily maximum flow design criterion of 4,800 GPD (same as 0.0048 million gallons per day, MGD) and the applicable concentration limits.

The mass-based limits are calculated as follows:

Monthly Average Mass Limit: $(30 \text{ mg/L})(8.34 \text{ lbs./gallon})(0.0048 \text{ MGD}) = 1.2 \text{ lbs./day}$

Weekly Average Mass Limit: $(45 \text{ mg/L})(8.34 \text{ lbs./day})(0.0048 \text{ MGD}) = 1.8 \text{ lbs./day}$

Daily Maximum Mass Limit: $(50 \text{ mg/L})(8.34 \text{ lbs./day})(0.0048 \text{ MGD}) = 2.0 \text{ lbs./day}$

This permitting action is establishing the minimum monitoring frequency requirement of 1/Month for BOD₅ and TSS. This permitting action establishes the requirement for a minimum of 85% removal of BOD₅ and TSS pursuant to 06-096 CMR 525(3)(III)(a)(3) and (b)(3). This permitting action establishes a minimum monitoring frequency requirement of once per month for percent removal. The permittee's wastewater treatment system does not contain an influent sampling location that is representative of raw wastewater conditions.

According to the USEPA's *Onsite Wastewater Treatment Systems Manual*, dated February 2002, table 3-7 entitled "Constituent Mass Loadings and Concentrations in Typical Residential Wastewater" high end range of values, influent values for BOD₅ and TSS may be assumed to be 286 mg/L. This permitting action also is carrying forward authorization for THE TRAILING YEW LLC to assume a midrange influent BOD₅ and TSS concentration value of 286 mg/L for the purpose of calculating the monthly percent removal value until such time that the infrastructure is modified or replaced such that collection of a representative raw influent sample is practical.

- e. Fecal Coliform Bacteria: This permitting action is establishing a seasonal monthly average and daily maximum concentration limits of 14 colonies/100 ml and 31 colonies/100 ml, respectively, for fecal coliform bacteria, which are consistent with the National Shellfish Sanitation Program.

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

- g. Total Residual Chlorine (TRC): This permitting action establishes a daily maximum water quality-based concentration limit of 1.0 mg/L for TRC with 1/Month monitoring requirement. Limitations on TRC are specified to ensure that ambient water quality standards are maintained at all times of the year and that BPT technology is being applied to the discharge. Department permitting actions impose the more stringent of either a water quality-based or BPT-based limit. With dilution factors as determined in Section 6(c) of this Fact Sheet, end-of-pipe (EOP) water quality-based concentration thresholds for TRC may be calculated as follows:

Acute (A) Criterion	Chronic (C) Criterion	A & C Dilution Factors	Calculated Acute Limit	Chronic Limit
0.013 mg/L	0.0075 mg/L	100:1(A) 150:1(C)	1.3 mg/L	1.12 mg/L

The water quality-based acute threshold of 1.0 mg/L is more stringent than either calculated water quality-based threshold and is therefore being established in this permitting action. The Department is identifying that dechlorination may be required to comply with this water quality-based threshold.

- h. pH: This permitting action is establishing a technology-based pH limit of 6.0 – 9.0 standard units (SU), which is based on 06-096 CMR 525(3)(III). This permitting action is establishing a monitoring frequency of 1/month for pH.

- i. Whole Effluent Toxicity (WET), Priority Pollutant, and Analytical Chemistry Testing:

38 M.R.S. § 414-A and 38 M.R.S. § 420 prohibit the discharge of effluents containing substances in amounts that would cause the surface waters of the State to contain toxic substances above levels set forth in Federal Water Quality Criteria as established by the USEPA. 06-096 CMR 530 sets forth effluent monitoring requirements and procedures to establish safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained, protected and narrative and numeric water quality criteria are met. 06-096 CMR 584 sets forth ambient water quality criteria (AWQC) for toxic pollutants and procedures necessary to control levels of toxic pollutants in surface waters.

06-096 CMR 530(2)(A) specifies the dischargers subject to the rule as, “...all licensed dischargers of industrial process wastewater or domestic wastes discharging to surface waters of the State must meet the testing requirements of this section. Dischargers of other types of wastewater are subject to this subsection when and if the Department determines

5. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

that toxicity of effluents may have reasonable potential to cause or contribute to exceedances of narrative or numerical water quality criteria."

06-096 CMR 530(2)(A) further specifies the criteria for the exemption of certain discharges from toxics testing as follows:

- (1) Discharges from individual discharge points licensed to discharge less than 50,000 gallons per day of solely domestic wastewater and with a chronic dilution factor of at least 50 to 1, provided no holding tank wastes containing chemicals are accepted by the facility;*
- (2) Discharges from residential overboard discharge systems; or*
- (3) Discharges from combined sewer overflow discharge points, provided the owner of the sewerage system is conducting or participating in a discharge abatement program.*

The permittee's facility is exempt from the 06-096 CMR 530 requirements as the characteristics of the wastewater are similar to that of a residential overboard discharge. Additionally, the permit authorizes a discharge of less than 50,000 gpd of solely domestic wastewater and the chronic dilution factor is greater than 50:1. However, should there be a substantial change in the characteristics of the discharge in the future; the Department may reopen this permit pursuant to Special Condition K, *Reopening of Permit for Modifications*, to incorporate the applicable whole effluent toxicity (WET), priority pollutant or analytical testing requirements cited above.

- j. Nitrogen: The USEPA requested the Department evaluate the reasonable potential for the discharge of total nitrogen to cause or contribute to non-attainment of applicable water quality standards in marine waters, namely dissolved oxygen (DO) and marine life support. To date, the permittee has not conducted total nitrogen testing on its discharge. As of March 2020, the Department has 186 total nitrogen effluent values with an arithmetic mean of 19.9 mg/L collected from various municipally-owned treatment works that discharge to marine waters of the State. None of the facilities whose effluent data were used are specifically designed to remove total nitrogen. For the MEPDES permitting program, the Department considers 19.9 mg/L to be representative of total nitrogen discharge levels for all facilities providing secondary treatment that discharge to marine waters in the absence of facility specific data, and therefore 19.9 mg/L is being used as the total nitrogen discharge concentration from The Trailing Yew's facility.

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

As of the date of this permitting action, the State of Maine has not promulgated numeric ambient water quality criteria for total nitrogen. According to several studies in USEPA's Region 1, numeric total nitrogen criteria have been established for relatively few estuaries, but the criteria that have been set typically fall between 0.35 mg/L and 0.50 mg/L to protect marine life using dissolved oxygen as the indicator. While the thresholds are site-specific, nitrogen thresholds set for the protection of eelgrass habitat range from 0.30 mg/L to 0.39 mg/L. Based on studies in USEPA's Region 1 and the Department's best professional judgment of thresholds that are protective of Maine water quality standards, the Department is utilizing a threshold of 0.45 mg/L for the protection of aquatic life in marine waters using dissolved oxygen as the indicator, and 0.32 mg/L for the protection of aquatic life using eelgrass as the indicator.

No known eelgrass surveys have been completed surrounding Monhegan Island. Portions of Monhegan Harbor are of suitable depth to host eelgrass, though given the distance from the mainland, any eelgrass present would have needed to be planted or accidentally introduced by hitchhiking seeds. Aerial imagery of Monhegan Harbor is not sufficient to determine eelgrass presence with any level of certainty. For the purpose of this reasonable potential evaluation, the use of 0.32 mg/L as a threshold value for protection of eelgrass is not appropriate for this receiving water, and the Department is using the total nitrogen threshold concentration of 0.45 mg/L for the protection of aquatic life using dissolved oxygen as the indicator.

With the exception of ammonia, nitrogen is not acutely toxic; thus, the Department is considering a far-field dilution to be more appropriate when evaluating impacts of total nitrogen to the marine environment. Far field dilutions are significantly higher than the near-field dilution, ranging from 10 – 10,000 times higher depending on the location of the outfall pipe. The permittee's facility has a chronic near-field dilution of 150:1, therefore, and the far-field dilution is conservatively estimated to be 1,200:1, which limits the increase in the ambient total nitrogen to 0.017 mg/L based on the following calculation:

Total nitrogen concentrations in effluent = 19.9 mg/L
Chronic dilution factor = 1,200:1

In-stream concentration after dilution: $19.9 \text{ mg/L} \div 1,200 = 0.017 \text{ mg/L}$

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS (cont'd)

The Department and external partners have been collecting ambient total nitrogen data along Maine's coast. No total nitrogen data are known to exist from Monhegan Island, and very few data points are available for offshore Maine islands where only minor discharges are permitted and upland land use is minimal. For perspective, the ambient mean total nitrogen value calculated for Vinalhaven is 0.17 ± 0.04 mg/L (n=10). Monhegan Harbor's ambient total nitrogen average is not expected to deviate notably from a concentration like 0.17 mg/L, which is well below the total nitrogen threshold value of 0.45 mg/L even with the addition of the effluent in the far field ($0.17 \text{ mg/L} + 0.017 \text{ mg/L} = 0.187 \text{ mg/L}$). The in-stream concentration value of 0.187 mg/L is less than the Department and USEPA's best professional judgment based total nitrogen threshold of 0.45 mg/L for the protection of aquatic life using dissolved oxygen as an indicator. Using the reasonable potential calculations above and in the absence of any information that the receiving water is not attaining standards, the Department is making a best professional judgment determination that the discharge of total nitrogen from The Trailing Yew does not exhibit a reasonable potential to exceed applicable water quality standards for Class SB waters. This permitting action is not establishing limitations or monitoring requirements for total nitrogen.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As permitted, the Department has determined the existing water uses will be maintained and protected, and that the discharge as permitted will not cause or contribute to the failure of the waterbody to meet standards for Class SB waters.

8. PUBLIC COMMENTS

Public notice of this application was made available in the Courier Gazette on or about May 19, 2019 in addition to notifying abutters by certified mailing. 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*, CMR 522 (effective January 12, 2001).

9. DEPARTMENT CONTACTS

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

Rodney Robert
Division of Water Quality Management
Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 446-1875
e-mail: rodney.robert@maine.gov

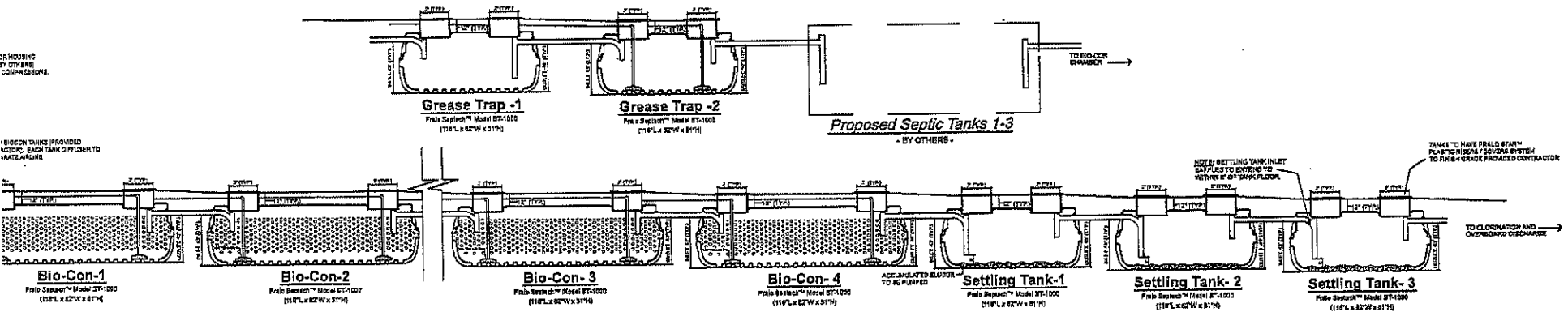
10. RESPONSE TO COMMENTS

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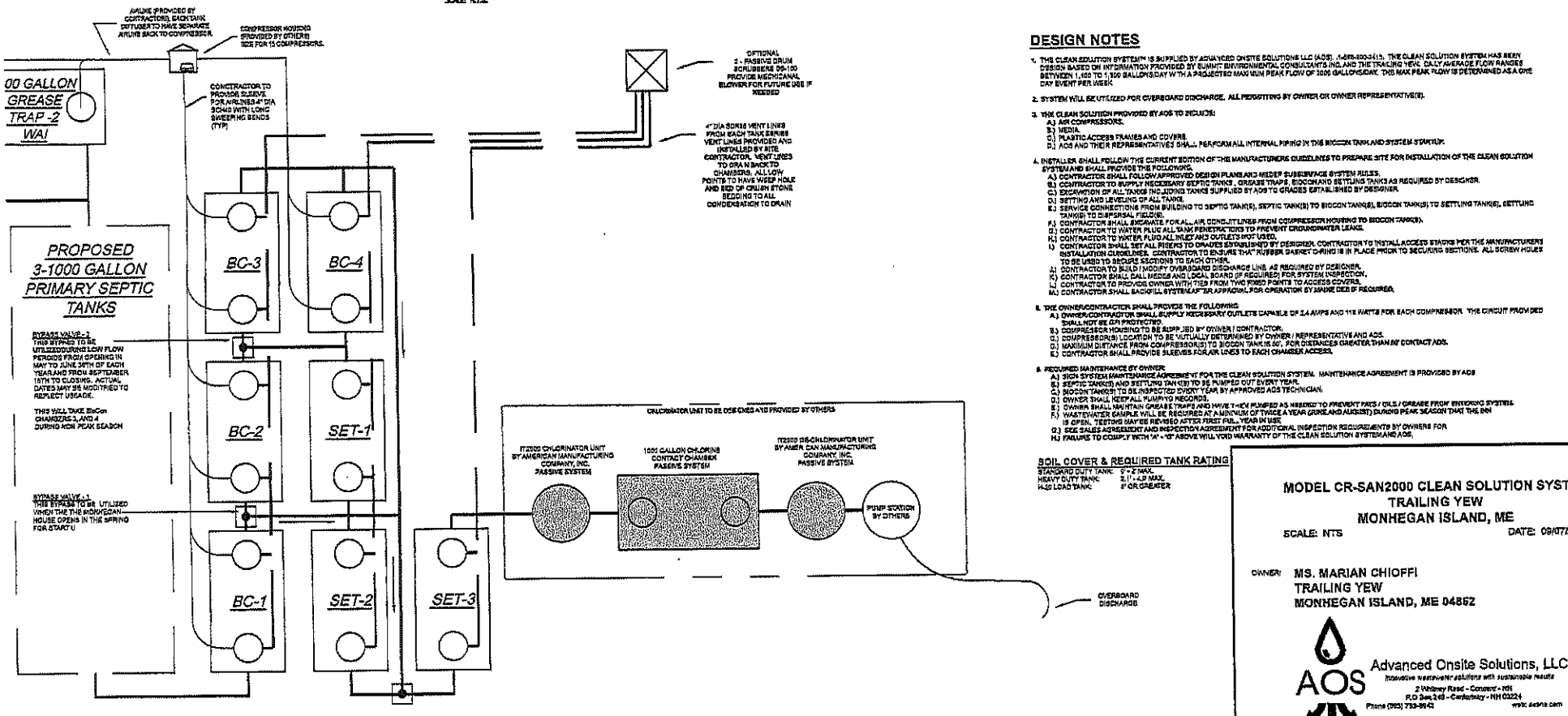
ATTACHMENT A

HOUSING BY OTHERS
COMPRESSORS

BIOCON TANKS PROVIDED
NOTING: EACH TANK DIFFUSERS TO
WATER ABOVE



FLOW PROFILE THE CLEAN SOLUTION™
SCALE: N.T.S.



PLAN VIEW THE CLEAN SOLUTION™
SCALE: N.T.S.

DESIGN NOTES

- THE CLEAN SOLUTION SYSTEM™ IS SUPPLIED BY ADVANCED ONSITE SOLUTIONS, LLC (AOS). THE CLEAN SOLUTION SYSTEM HAS BEEN DESIGNED BASED ON INFORMATION PROVIDED BY EMMETT ENVIRONMENTAL CONSULTANTS AND THE TRAILING YEW. DAILY AVERAGE FLOW RANGES BETWEEN 1,000 TO 1,100 GALLONS PER DAY. A PEAK FLOW OF 1,500 GALLONS PER DAY IS DETERMINED AS A ONE DAY EVENT PER YEAR.
- SYSTEM WILL BE UTILIZED FOR OVERBOARD DISCHARGE. ALL PERMITTING BY OWNER OR OWNER REPRESENTATIVE(S).
- THE CLEAN SOLUTION PROVIDED BY AOS TO INCLUDE:
 - AIR COMPRESSORS.
 - MEDIA.
 - PLASTIC ACCESS FRAMES AND COVERS.
 - AOS AND THEIR REPRESENTATIVES SHALL PERFORM ALL INTERNAL PIPING IN THE BIOCON TANK AND SYSTEM STARTUP.
- INSTALLER SHALL FOLLOW THE CURRENT EDITION OF THE MANUFACTURER'S GUIDELINES TO PREPARE SITE FOR INSTALLATION OF THE CLEAN SOLUTION SYSTEM AND SHALL PROVIDE THE FOLLOWING:
 - CONTRACTOR SHALL FOLLOW APPROVED DESIGN PLANS AND MEET SUBSURFACE SYSTEM RULES.
 - CONTRACTOR TO SUPPLY NECESSARY SEPTIC TANKS, GREASE TRAPS, BIOCON TANKS AND SETTLING TANKS AS REQUIRED BY DESIGNER.
 - EXCAVATION OF ALL TANKS INCLUDING TANKS SUPPLIED BY AOS TO REMAIN EXPOSED BY DESIGNER.
 - SETTING AND LEVELING OF ALL TANKS.
 - SERVICE CONNECTIONS FROM BUILDING TO SEPTIC TANKS, SEPTIC TANKS TO BIOCON TANKS, SETTLING TANKS, SETTLING TANKS TO SEPTIC TANKS.
 - CONTRACTOR SHALL SEPARATE FOR ALL AIR CONDUIT LINES FROM COMPRESSION LINES TO BIOCON TANKS.
 - CONTRACTOR TO WATER PLUG ALL TANK PENETRATIONS TO PREVENT GROUNDWATER LEAKS.
 - CONTRACTOR TO WATER PLUG ALL INLET AND OUTLET NOT USED.
 - CONTRACTOR SHALL SET ALL RISERS TO DRIVERS ESTABLISHED BY DESIGNER. CONTRACTOR TO INSTALL ACCESS STAIRS PER THE MANUFACTURER'S INSTALLATION GUIDELINES. CONTRACTOR TO ENSURE THAT RUBBER GASKET DRIVING IS IN PLACE PRIOR TO SECURING SECTIONS. ALL SCREEN HOLES TO BE USED TO SECURE SECTIONS TO EACH OTHER.
 - CONTRACTOR SHALL CALL MEDIA AND LOCAL BOARD (IF REQUIRED) FOR SYSTEM INSPECTION.
 - CONTRACTOR TO PROVIDE OWNERS WITH TIES FROM TWO FIXED POINTS TO ACCESS COVERS.
 - CONTRACTOR SHALL BACKFILL SYSTEM AFTER APPROVAL FOR OPERATION BY AOS OR IF REQUIRED.
- THE OWNER/CONTRACTOR SHALL PROVIDE THE FOLLOWING:
 - OWNER/CONTRACTOR SHALL SUPPLY NECESSARY OUTLETS CAPABLE OF 24 INCHES AND 1/2 INCHES FOR EACH COMPRESSOR. THE CIRCUIT PROVIDED SHALL NOT BE OR PROTECTED.
 - COMPRESSOR HOUSING TO BE SUPPLIED BY OWNER / CONTRACTOR.
 - COMPRESSOR LOCATION TO BE VERTUALLY DETERMINED BY OWNER / REPRESENTATIVE AND AOS.
 - MAXIMUM DISTANCE FROM COMPRESSORS TO BIOCON TANK IS 60'. FOR DISTANCES GREATER THAN 60' CONTACT AOS.
 - CONTRACTOR SHALL PROVIDE SLEEVES FOR AIR LINES TO EACH CHAMBER ACCESS.
- REQUIRED MAINTENANCE BY OWNER:
 - SIGN SYSTEM MAINTENANCE AGREEMENT FOR THE CLEAN SOLUTION SYSTEM. MAINTENANCE AGREEMENT IS PROVIDED BY AOS.
 - SEPTIC TANKS AND SETTLING TANKS TO BE PUMPED OUT EVERY YEAR.
 - BIOCON TANKS TO BE INSPECTED EVERY YEAR BY APPROVED AOS TECHNICIAN.
 - OWNER SHALL KEEP ALL PUMPING RECORDS.
 - OWNER SHALL MAINTAIN GREASE TRAPS AND HAVE THEM PUMPED AS NEEDED TO PREVENT FATS / OILS / GREASE FROM ENTERING SYSTEM.
 - WASTEWATER SAMPLE WILL BE REQUIRED AT ANNUAL OFFICE (A YEAR (ONE AND A HALF) DURING PEAK SEASON TIME THE SW IS OPEN. TESTING MAY BE REVISED AFTER FIRST FULL YEAR IN USE.
 - SEE SALES AGREEMENT AND INSPECTION AGREEMENT FOR ADDITIONAL INSPECTION REQUIREMENTS BY OWNERS FOR FAILURE TO COMPLY WITH AOS' 100% WARRANTY OF THE CLEAN SOLUTION SYSTEM AND AOS.

SOIL COVER & REQUIRED TANK RATING

STANDARD DUTY TANK: 0" - 1" MAX.
HEAVY DUTY TANK: 1" - 4" MAX.
400 LBS. TANK: 4" OR GREATER

MODEL CR-SAN2000 CLEAN SOLUTION SYSTEM
TRAILING YEW
MONHEGAN ISLAND, ME
SCALE: N.T.S. DATE: 09/07/2015

OWNER: MS. MARIAN CHIOFFI
TRAILING YEW
MONHEGAN ISLAND, ME 04862



Advanced Onsite Solutions, LLC
Innovative wastewater solutions with sustainable results
2 Robney Road - Conway, ME
P.O. Box 243 - Conway, ME 04862
Phone (207) 733-9942 www.aosme.com

REV.	DATE	DESCRIPTION	BY	CHK	DATE
1	09/07/2015	ISSUED	XX	XX	
2			GD	DA	09/07/2015

SHEET 1 OF 1

Trailing Yew Septic system design 2015 W007629

1. THE CLEAN SOLUTION SYSTEM™ IS SUPPLIED BY ADVANCED ONSITE SOLUTIONS LLC (AOS). 1-866-900-2415. THE CLEAN SOLUTION SYSTEM HAS BEEN DESIGN BASED ON INFORMATION PROVIDED BY SUMMIT ENVIRONMENTAL CONSULTANTS INC. AND THE TRAILING YEW. DAILY AVERAGE FLOW RANGES BETWEEN 1,100 TO 1,300 GALLONS/DAY WITH A PROJECTED MAXIMUM PEAK FLOW OF 2000 GALLONS/DAY. THE MAX PEAK FLOW IS DETERMINED AS A ONE DAY EVENT PER WEEK
2. SYSTEM WILL BE UTILIZED FOR OVERBOARD DISCHARGE. ALL PERMITTING BY OWNER OR OWNER REPRESENTATIVE(S).
3. THE CLEAN SOLUTION PROVIDED BY AOS TO INCLUDE:
 - A.) AIR COMPRESSORS.
 - B.) MEDIA.
 - C.) PLASTIC ACCESS FRAMES AND COVERS.
 - D.) AOS AND THEIR REPRESENTATIVES SHALL PERFORM ALL INTERNAL PIPING IN THE BIOCON TANK AND SYSTEM STARTUP.
4. INSTALLER SHALL FOLLOW THE CURRENT EDITION OF THE MANUFACTURERS GUIDELINES TO PREPARE SITE FOR INSTALLATION OF THE CLEAN SOLUTION SYSTEM AND SHALL PROVIDE THE FOLLOWING:
 - A.) CONTRACTOR SHALL FOLLOW APPROVED DESIGN PLANS AND MEDEP SUBSURFACE SYSTEM RULES.
 - B.) CONTRACTOR TO SUPPLY NECESSARY SEPTIC TANKS , GREASE TRAPS, BIOCON AND SETTLING TANKS AS REQUIRED BY DESIGNER.
 - C.) EXCAVATION OF ALL TANKS INCLUDING TANKS SUPPLIED BY AOS TO GRADES ESTABLISHED BY DESIGNER.
 - D.) SETTING AND LEVELING OF ALL TANKS.
 - E.) SERVICE CONNECTIONS FROM BUILDING TO SEPTIC TANK(S), SEPTIC TANK(S) TO BIOCON TANK(S), BIOCON TANK(S) TO SETTLING TANK(S), SETTLING TANK(S) TO DISPERSAL FIELD(S).
 - F.) CONTRACTOR SHALL EXCAVATE FOR ALL AIR CONDUIT LINES FROM COMPRESSOR HOUSING TO BIOCON TANK(S).
 - G.) CONTRACTOR TO WATER PLUG ALL TANK PENETRATIONS TO PREVENT GROUNDWATER LEAKS.
 - H.) CONTRACTOR TO WATER PLUG ALL INLET AND OUTLETS NOT USED.
 - I.) CONTRACTOR SHALL SET ALL RISERS TO GRADES ESTABLISHED BY DESIGNER. CONTRACTOR TO INSTALL ACCESS STACKS PER THE MANUFACTURERS INSTALLATION GUIDELINES. CONTRACTOR TO ENSURE THAT RUBBER GASKET O-RING IS IN PLACE PRIOR TO SECURING SECTIONS. ALL SCREW HOLES TO BE USED TO SECURE SECTIONS TO EACH OTHER.
 - J.) CONTRACTOR TO BUILD / MODIFY OVERBOARD DISCHARGE LINE AS REQUIRED BY DESIGNER.
 - K.) CONTRACTOR SHALL CALL MEDES AND LOCAL BOARD (IF REQUIRED) FOR SYSTEM INSPECTION.
 - L.) CONTRACTOR TO PROVIDE OWNER WITH TIES FROM TWO FIXED POINTS TO ACCESS COVERS.
 - M.) CONTRACTOR SHALL BACKFILL SYSTEM AFTER APPROVAL FOR OPERATION BY MAINE DES IF REQUIRED.
5. THE OWNER/CONTRACTOR SHALL PROVIDE THE FOLLOWING:
 - A.) OWNER/CONTRACTOR SHALL SUPPLY NECESSARY OUTLETS CAPABLE OF 2.4 AMPS AND 118 WATTS FOR EACH COMPRESSOR. THE CIRCUIT PROVIDED SHALL NOT BE GFI PROTECTED.
 - B.) COMPRESSOR HOUSING TO BE SUPPLIED BY OWNER / CONTRACTOR.
 - C.) COMPRESSOR(S) LOCATION TO BE MUTUALLY DETERMINED BY OWNER / REPRESENTATIVE AND AOS.
 - D.) MAXIMUM DISTANCE FROM COMPRESSOR(S) TO BIOCON TANK IS 50'. FOR DISTANCES GREATER THAN 50' CONTACT AOS.
 - E.) CONTRACTOR SHALL PROVIDE SLEEVES FOR AIR LINES TO EACH CHAMBER ACCESS.
6. REQUIRED MAINTENANCE BY OWNER:
 - A.) SIGN SYSTEM MAINTENANCE AGREEMENT FOR THE CLEAN SOLUTION SYSTEM. MAINTENANCE AGREEMENT IS PROVIDED BY AOS
 - B.) SEPTIC TANK(S) AND SETTLING TANK(S) TO BE PUMPED OUT EVERY YEAR.
 - C.) BIOCON TANK(S) TO BE INSPECTED EVERY YEAR BY APPROVED AOS TECHNICIAN.
 - D.) OWNER SHALL KEEP ALL PUMPING RECORDS.
 - E.) OWNER SHALL MAINTAIN GREASE TRAPS AND HAVE THEM PUMPED AS NEEDED TO PREVENT FATS / OILS / GREASE FROM ENTERING SYSTEM.
 - F.) WASTEWATER SAMPLE WILL BE REQUIRED AT A MINIMUM OF TWICE A YEAR (JUNE AND AUGUST) DURING PEAK SEASON THAT THE INN IS OPEN. TESTING MAY BE REVISED AFTER FIRST FULL YEAR IN USE
 - G.) SEE SALES AGREEMENT AND INSPECTION AGREEMENT FOR ADDITIONAL INSPECTION REQUIREMENTS BY OWNERS FOR
 - H.) FAILURE TO COMPLY WITH "A" - "G" ABOVE WILL VOID WARRANTY OF THE CLEAN SOLUTION SYSTEM AND AOS.

SOIL COVER & REQUIRED TANK RATING

STANDARD DUTY TANK: 0' - 2' MAX.
HEAVY DUTY TANK: 2.1' - 4.9' MAX.
H-20 LOAD TANK: 5' OR GREATER

MODEL CR-SAN2000 CLEAN SOLUTION SYS[™]
TRAILING YEW
MONHEGAN ISLAND ME

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

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MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

A. GENERAL PROVISIONS

1. **General compliance.** All discharges shall be consistent with the terms and conditions of this permit; any changes in production capacity or process modifications which result in changes in the quantity or the characteristics of the discharge must be authorized by an additional license or by modifications of this permit; it shall be a violation of the terms and conditions of this permit to discharge any pollutant not identified and authorized herein or to discharge in excess of the rates or quantities authorized herein or to violate any other conditions of this permit.

2. **Other materials.** Other materials ordinarily produced or used in the operation of this facility, which have been specifically identified in the application, may be discharged at the maximum frequency and maximum level identified in the application, provided:

(a) They are not

- (i) Designated as toxic or hazardous under the provisions of Sections 307 and 311, respectively, of the Federal Water Pollution Control Act; Title 38, Section 420, Maine Revised Statutes; or other applicable State Law; or
- (ii) Known to be hazardous or toxic by the licensee.

(b) The discharge of such materials will not violate applicable water quality standards.

3. **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of State law and the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

- (a) The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Clean Water Act, and 38 MRSA, §420 or Chapter 530.5 for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (b) Any person who violates any provision of the laws administered by the Department, including without limitation, a violation of the terms of any order, rule license, permit, approval or decision of the Board or Commissioner is subject to the penalties set forth in 38 MRSA, §349.

4. **Duty to provide information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

5. **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

6. **Reopener clause.** The Department reserves the right to make appropriate revisions to this permit in order to establish any appropriate effluent limitations, schedule of compliance or other provisions which may be authorized under 38 MRSA, §414-A(5).

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

7. Oil and hazardous substances. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under section 311 of the Federal Clean Water Act; section 106 of the Federal Comprehensive Environmental Response, Compensation and Liability Act of 1980; or 38 MRSA §§ 1301, et. seq.

8. Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.

9. Confidentiality of records. 38 MRSA §414(6) reads as follows. "Any records, reports or information obtained under this subchapter is available to the public, except that upon a showing satisfactory to the department by any person that any records, reports or information, or particular part or any record, report or information, other than the names and addresses of applicants, license applications, licenses, and effluent data, to which the department has access under this subchapter would, if made public, divulge methods or processes that are entitled to protection as trade secrets, these records, reports or information must be confidential and not available for public inspection or examination. Any records, reports or information may be disclosed to employees or authorized representatives of the State or the United States concerned with carrying out this subchapter or any applicable federal law, and to any party to a hearing held under this section on terms the commissioner may prescribe in order to protect these confidential records, reports and information, as long as this disclosure is material and relevant to any issue under consideration by the department."

10. Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

11. Other laws. The issuance of this permit does not authorize any injury to persons or property or invasion of other property rights, nor does it relieve the permittee of its obligation to comply with other applicable Federal, State or local laws and regulations.

12. Inspection and entry. The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the EPA Administrator), upon presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

B. OPERATION AND MAINTENANCE OF FACILITIES

1. General facility requirements.

- (a) The permittee shall collect all waste flows designated by the Department as requiring treatment and discharge them into an approved waste treatment facility in such a manner as to

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maximize removal of pollutants unless authorization to the contrary is obtained from the Department.

- (b) The permittee shall at all times maintain in good working order and operate at maximum efficiency all waste water collection, treatment and/or control facilities.
- (c) All necessary waste treatment facilities will be installed and operational prior to the discharge of any wastewaters.
- (d) Final plans and specifications must be submitted to the Department for review prior to the construction or modification of any treatment facilities.
- (e) The permittee shall install flow measuring facilities of a design approved by the Department.
- (f) The permittee must provide an outfall of a design approved by the Department which is placed in the receiving waters in such a manner that the maximum mixing and dispersion of the wastewaters will be achieved as rapidly as possible.

2. Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

3. Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

5. Bypasses.

(a) Definitions.

- (i) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- (ii) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

- (b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (c) and (d) of this section.

(c) Notice.

- (i) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

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- (ii) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph D(1)(f), below. (24-hour notice).
- (d) Prohibition of bypass.
 - (i) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (C) The permittee submitted notices as required under paragraph (c) of this section.
 - (ii) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph (d)(i) of this section.

6. Upsets.

- (a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- (b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- (c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (i) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (ii) The permitted facility was at the time being properly operated; and
 - (iii) The permittee submitted notice of the upset as required in paragraph D(1)(f), below. (24 hour notice).
 - (iv) The permittee complied with any remedial measures required under paragraph B(4).
- (d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

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C. MONITORING AND RECORDS

1. General Requirements. This permit shall be subject to such monitoring requirements as may be reasonably required by the Department including the installation, use and maintenance of monitoring equipment or methods (including, where appropriate, biological monitoring methods). The permittee shall provide the Department with periodic reports on the proper Department reporting form of monitoring results obtained pursuant to the monitoring requirements contained herein.

2. Representative sampling. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. If effluent limitations are based wholly or partially on quantities of a product processed, the permittee shall ensure samples are representative of times when production is taking place. Where discharge monitoring is required when production is less than 50%, the resulting data shall be reported as a daily measurement but not included in computation of averages, unless specifically authorized by the Department.

3. Monitoring and records.

- (a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (b) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.
- (c) Records of monitoring information shall include:
 - (i) The date, exact place, and time of sampling or measurements;
 - (ii) The individual(s) who performed the sampling or measurements;
 - (iii) The date(s) analyses were performed;
 - (iv) The individual(s) who performed the analyses;
 - (v) The analytical techniques or methods used; and
 - (vi) The results of such analyses.
- (d) Monitoring results must be conducted according to test procedures approved under 40 CFR part 136, unless other test procedures have been specified in the permit.
- (e) State law provides that any person who tampers with or renders inaccurate any monitoring devices or method required by any provision of law, or any order, rule license, permit approval or decision is subject to the penalties set forth in 38 MRSA, §349.

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D. REPORTING REQUIREMENTS

1. Reporting requirements.

- (a) Planned changes. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - (i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - (ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under Section D(4).
 - (iii) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
- (b) Anticipated noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Transfers. This permit is not transferable to any person except upon application to and approval of the Department pursuant to 38 MRSA, § 344 and Chapters 2 and 522.
- (d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
 - (i) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices.
 - (ii) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department.
 - (iii) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.
- (e) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- (f) Twenty-four hour reporting.
 - (i) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance

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has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

(ii) The following shall be included as information which must be reported within 24 hours under this paragraph.

(A) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(B) Any upset which exceeds any effluent limitation in the permit.

(C) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.

(iii) The Department may waive the written report on a case-by-case basis for reports under paragraph (f)(ii) of this section if the oral report has been received within 24 hours.

(g) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (d), (e), and (f) of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (f) of this section.

(h) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

2. Signatory requirement. All applications, reports, or information submitted to the Department shall be signed and certified as required by Chapter 521, Section 5 of the Department's rules. State law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan or other document filed or required to be maintained by any order, rule, permit, approval or decision of the Board or Commissioner is subject to the penalties set forth in 38 MRSA, §349.

3. Availability of reports. Except for data determined to be confidential under A(9), above, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by State law, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal sanctions as provided by law.

4. Existing manufacturing, commercial, mining, and silvicultural dischargers. In addition to the reporting requirements under this Section, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Department as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(i) One hundred micrograms per liter (100 ug/l);

(ii) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or

(iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

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- (b) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (i) Five hundred micrograms per liter (500 ug/l);
 - (ii) One milligram per liter (1 mg/l) for antimony;
 - (iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or
 - (iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

5. Publicly owned treatment works.

- (a) All POTWs must provide adequate notice to the Department of the following:
 - (i) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA or Chapter 528 if it were directly discharging those pollutants.
 - (ii) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (iii) For purposes of this paragraph, adequate notice shall include information on (A) the quality and quantity of effluent introduced into the POTW, and (B) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- (b) When the effluent discharged by a POTW for a period of three consecutive months exceeds 80 percent of the permitted flow, the permittee shall submit to the Department a projection of loadings up to the time when the design capacity of the treatment facility will be reached, and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.

E. OTHER REQUIREMENTS

1. Emergency action - power failure. Within thirty days after the effective date of this permit, the permittee shall notify the Department of facilities and plans to be used in the event the primary source of power to its wastewater pumping and treatment facilities fails as follows.

- (a) For municipal sources. During power failure, all wastewaters which are normally treated shall receive a minimum of primary treatment and disinfection. Unless otherwise approved, alternate power supplies shall be provided for pumping stations and treatment facilities. Alternate power supplies shall be on-site generating units or an outside power source which is separate and independent from sources used for normal operation of the wastewater facilities.
- (b) For industrial and commercial sources. The permittee shall either maintain an alternative power source sufficient to operate the wastewater pumping and treatment facilities or halt, reduce or otherwise control production and or all discharges upon reduction or loss of power to the wastewater pumping or treatment facilities.

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2. **Spill prevention.** (applicable only to industrial sources) Within six months of the effective date of this permit, the permittee shall submit to the Department for review and approval, with or without conditions, a spill prevention plan. The plan shall delineate methods and measures to be taken to prevent and or contain any spills of pulp, chemicals, oils or other contaminants and shall specify means of disposal and or treatment to be used.

3. **Removed substances.** Solids, sludges trash rack cleanings, filter backwash, or other pollutants removed from or resulting from the treatment or control of waste waters shall be disposed of in a manner approved by the Department.

4. **Connection to municipal sewer.** (applicable only to industrial and commercial sources) All wastewaters designated by the Department as treatable in a municipal treatment system will be cosigned to that system when it is available. This permit will expire 90 days after the municipal treatment facility becomes available, unless this time is extended by the Department in writing.

F. DEFINITIONS. For the purposes of this permit, the following definitions shall apply. Other definitions applicable to this permit may be found in Chapters 520 through 529 of the Department's rules

Average means the arithmetic mean of values taken at the frequency required for each parameter over the specified period. For bacteria, the average shall be the geometric mean.

Average monthly discharge limitation means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. Except, however, bacteriological tests may be calculated as a geometric mean.

Average weekly discharge limitation means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best management practices ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Composite sample means a sample consisting of a minimum of eight grab samples collected at equal intervals during a 24 hour period (or a lesser period as specified in the section on monitoring and reporting) and combined proportional to the flow over that same time period.

Continuous discharge means a discharge which occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities.

Daily discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

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Discharge Monitoring Report ("DMR") means the EPA uniform national form, including any subsequent additions, revisions, or modifications for the reporting of self-monitoring results by permittees. DMRs must be used by approved States as well as by EPA. EPA will supply DMRs to any approved State upon request. The EPA national forms may be modified to substitute the State Agency name, address, logo, and other similar information, as appropriate, in place of EPA's.

Flow weighted composite sample means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

Grab sample means an individual sample collected in a period of less than 15 minutes.

Interference means a Discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

- (1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
- (2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

Maximum daily discharge limitation means the highest allowable daily discharge.

New source means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

- (a) After promulgation of standards of performance under section 306 of CWA which are applicable to such source, or
- (b) After proposal of standards of performance in accordance with section 306 of CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal.

Pass through means a discharge which exits the POTW into waters of the State in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

Permit means an authorization, license, or equivalent control document issued by EPA or an approved State to implement the requirements of 40 CFR parts 122, 123 and 124. Permit includes an NPDES general permit (Chapter 529). Permit does not include any permit which has not yet been the subject of final agency action, such as a draft permit or a proposed permit.

Person means an individual, firm, corporation, municipality, quasi-municipal corporation, state agency, federal agency or other legal entity.

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Point source means any discernible, confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation or vessel or other floating craft, from which pollutants are or may be discharged.

Pollutant means dredged spoil, solid waste, junk, incinerator residue, sewage, refuse, effluent, garbage, sewage sludge, munitions, chemicals, biological or radiological materials, oil, petroleum products or byproducts, heat, wrecked or discarded equipment, rock, sand, dirt and industrial, municipal, domestic, commercial or agricultural wastes of any kind.

Process wastewater means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.

Publicly owned treatment works ("POTW") means any facility for the treatment of pollutants owned by the State or any political subdivision thereof, any municipality, district, quasi-municipal corporation or other public entity.

Septage means, for the purposes of this permit, any waste, refuse, effluent sludge or other material removed from a septic tank, cesspool, vault privy or similar source which concentrates wastes or to which chemicals have been added. Septage does not include wastes from a holding tank.

Time weighted composite means a composite sample consisting of a mixture of equal volume aliquots collected over a constant time interval.

Toxic pollutant includes any pollutant listed as toxic under section 307(a)(1) or, in the case of sludge use or disposal practices, any pollutant identified in regulations implementing section 405(d) of the CWA. Toxic pollutant also includes those substances or combination of substances, including disease causing agents, which after discharge or upon exposure, ingestion, inhalation or assimilation into any organism, including humans either directly through the environment or indirectly through ingestion through food chains, will, on the basis of information available to the board either alone or in combination with other substances already in the receiving waters or the discharge, cause death, disease, abnormalities, cancer, genetic mutations, physiological malfunctions, including malfunctions in reproduction, or physical deformations in such organism or their offspring.

Wetlands means those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

Whole effluent toxicity means the aggregate toxic effect of an effluent measured directly by a toxicity test.



DEP INFORMATION SHEET

Appealing a Department Licensing Decision

Dated: November 2018

Contact: (207) 287-2452

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) an administrative process before the Board of Environmental Protection (Board); or (2) a judicial process before Maine's Superior Court. An aggrieved person seeking review of a licensing decision over which the Board had original jurisdiction may seek judicial review in Maine's Superior Court.

A judicial appeal of final action by the Commissioner or the Board regarding an application for an expedited wind energy development (35-A M.R.S. § 3451(4)) or a general permit for an offshore wind energy demonstration project (38 M.R.S. § 480-HH(1)) or a general permit for a tidal energy demonstration project (38 M.R.S. § 636-A) must be taken to the Supreme Judicial Court sitting as the Law Court.

This information sheet, in conjunction with a review of the statutory and regulatory provisions referred to herein, can help a person to understand his or her rights and obligations in filing an administrative or judicial appeal.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

The laws concerning the DEP's *Organization and Powers*, 38 M.R.S. §§ 341-D(4) & 346; the *Maine Administrative Procedure Act*, 5 M.R.S. § 11001; and the DEP's *Rules Concerning the Processing of Applications and Other Administrative Matters* ("Chapter 2"), 06-096 C.M.R. ch. 2.

DEADLINE TO SUBMIT AN APPEAL TO THE BOARD

The Board must receive a written appeal within 30 days of the date on which the Commissioner's decision was filed with the Board. Appeals filed more than 30 calendar days after the date on which the Commissioner's decision was filed with the Board will be dismissed unless notice of the Commissioner's license decision was required to be given to the person filing an appeal (appellant) and the notice was not given as required.

HOW TO SUBMIT AN APPEAL TO THE BOARD

Signed original appeal documents must be sent to: Chair, Board of Environmental Protection, 17 State House Station, Augusta, ME 04333-0017. An appeal may be submitted by fax or e-mail if it contains a scanned original signature. It is recommended that a faxed or e-mailed appeal be followed by the submittal of mailed original paper documents. The complete appeal, including any attachments, must be received at DEP's offices in Augusta on or before 5:00 PM on the due date; materials received after 5:00 pm are not considered received until the following day. The risk of material not being received in a timely manner is on the sender, regardless of the method used. The appellant must also send a copy of the appeal documents to the Commissioner of the DEP; the applicant (if the appellant is not the applicant in the license proceeding at issue); and if a hearing was held on the application, any intervenor in that hearing process. All of the information listed in the next section of this information sheet must be submitted at the time the appeal is filed.

INFORMATION APPEAL PAPERWORK MUST CONTAIN

Appeal materials must contain the following information at the time the appeal is submitted:

1. *Aggrieved Status.* The appeal must explain how the appellant has standing to maintain an appeal. This requires an explanation of how the appellant may suffer a particularized injury as a result of the Commissioner's decision.
2. *The findings, conclusions, or conditions objected to or believed to be in error.* The appeal must identify the specific findings of fact, conclusions regarding compliance with the law, license conditions, or other aspects of the written license decision or of the license review process that the appellant objects to or believes to be in error.
3. *The basis of the objections or challenge.* For the objections identified in Item #2, the appeal must state why the appellant believes that the license decision is incorrect and should be modified or reversed. If possible, the appeal should cite specific evidence in the record or specific licensing requirements that the appellant believes were not properly considered or fully addressed.
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 matters specifically raised in the written notice of appeal.
6. *Request for hearing.* If the appellant wishes the Board to hold a public hearing on the appeal, a request for public hearing must be filed as part of the notice of appeal, and must include an offer of proof in accordance with Chapter 2. The Board will hear the arguments in favor of and in opposition to a hearing on the appeal and the presentations on the merits of an appeal at a regularly scheduled meeting. If the Board decides to hold a public hearing on an appeal, that hearing will then be scheduled for a later date.
7. *New or additional evidence to be offered.* If an appellant wants to provide evidence not previously provided to DEP staff during the DEP's review of the application, the request and the proposed evidence must be submitted with the appeal. The Board may allow new or additional evidence, referred to as supplemental evidence, to be considered in an appeal only under very limited circumstances. The proposed evidence must be relevant and material, and (a) the person seeking to add information to the record must show due diligence in bringing the evidence to the DEP's attention at the earliest possible time in the licensing process; or (b) the evidence itself must be newly discovered and therefore unable to have been presented earlier in the process. Specific requirements for supplemental evidence are found in Chapter 2 § 24.

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

1. *Be familiar with all relevant material in the DEP record.* A license application file is public information, subject to any applicable statutory exceptions, and is made easily accessible by the DEP. Upon request, the DEP will make application materials available during normal working hours, provide space to review the file, and provide an 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 general questions regarding the appeal process.
3. *The filing of an appeal does not operate as a stay to any decision.* If a license has been granted and it has been appealed, the license normally remains in effect pending the processing of the appeal. Unless a stay of the decision is requested and granted, a license holder may proceed with a project pending the outcome of an appeal, but the license holder 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 receipt of an appeal, and will provide the name of the DEP project manager assigned to the specific appeal. The notice of appeal, any materials accepted by the Board Chair as supplementary evidence, any materials submitted in response to the appeal, and relevant excerpts from the DEP's application review file will be sent to Board members with a recommended decision from DEP staff. The appellant, the license holder if different from the appellant, and any interested persons are notified in advance of the date set for Board consideration of an appeal or request for public hearing. The appellant and the license holder will have an opportunity to address the Board at the Board meeting. With or without holding a public hearing, the Board may affirm, amend, or reverse a Commissioner decision or remand the matter to the Commissioner for further proceedings. The Board will notify the appellant, the license holder, and interested persons of its decision.

II. JUDICIAL APPEALS

Maine law generally allows aggrieved persons to appeal final Commissioner or Board licensing decisions to Maine's Superior Court (see 38 M.R.S. § 346(1); 06-096 C.M.R. ch. 2; 5 M.R.S. § 11001; and M.R. Civ. P. 80C). A party's appeal must be filed with the Superior Court within 30 days of receipt of notice of the Board's or the Commissioner's decision. For any other person, an appeal must be filed within 40 days of the date the decision was rendered. An appeal to court of a license decision regarding an expedited wind energy development, a general permit for an offshore wind energy demonstration project, or a general permit for a tidal energy demonstration project may only be taken directly to the Maine Supreme Judicial Court. See 38 M.R.S. § 346(4).

Maine's Administrative Procedure Act, DEP statutes governing a particular matter, and the Maine Rules of Civil Procedure must be consulted for the substantive and procedural details applicable to judicial appeals.

ADDITIONAL INFORMATION

If you have questions or need additional information on the appeal process, for administrative appeals contact the Board's Executive Analyst at (207) 287-2452, or for judicial appeals contact the court clerk's office in which your appeal will be filed.

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.
