STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JANET T. MILLS
GOVERNOR

MELANIE LOYZIM
COMMISSIONER

May 17, 2022

Ashland Water & Sewer District
Attn: Josh Fisher
P.O. Box 340
Ashland, ME 04732
ashlandwater1@gmail.com

Sent via electronic mail
Delivery confirmation requested

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit # ME0101087
Maine Waste Discharge License (WDL) Application #W002697-6C-H-R
Finalized MEPDES Permit

Dear Mr. Fisher:

Enclosed please find a copy of your **final** MEPDES permit and Maine WDL which was approved by the Department of Environmental Protection. Please read this permit and its attached conditions carefully. Compliance with this license will protect water quality.

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

If you have any questions regarding the matter, please feel free to call me at 881-9279.

Your Department compliance inspector copied below is also a resource that can assist you with compliance. Please do not hesitate to contact them with any questions.

Thank you for your efforts to protect and improve the waters of the great state of Maine!

Sincerely,

Aaron Dumont
Division of Water Quality Management
Bureau of Water Quality
Aaron.A.Dumont@maine.gov

Enc.

Pcc:

Sean Bernard, MEDEP
Lori Mitchell, MEDEP
Pam Parker, MEDEP
Alex Rosenberg, USEPA
Ellen Weitzler, USEPA
Nathan Chien, USEPA
Richard Carvalho, USEPA
Sandy Mojica, USEPA

DEP INFORMATION SHEET

Appealing a Department Licensing Decision

Dated: August 2021 **Contact: (207) 314-1458**

SUMMARY

This document provides information regarding a person's rights and obligations in filing an administrative or judicial appeal of a licensing decision made by the Department of Environmental Protection's (DEP) Commissioner.

Except as provided below, there are two methods available to an aggrieved person seeking to appeal a licensing decision made by the 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.

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

A person filing an appeal with the Board should review Organization and Powers, 38 M.R.S. §§ 341-D(4) and 346; the Maine Administrative Procedure Act, 5 M.R.S. § 11001; and the DEP's *Rule 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

Not more than 30 days following the filing of a license decision by the Commissioner with the Board, an aggrieved person may appeal to the Board for review of the Commissioner's decision. The filing of an appeal with the Board, in care of the Board Clerk, is complete when the Board receives the submission by the close of business on the due date (5:00 p.m. on the 30th calendar day from which the Commissioner's decision was filed with the Board, as determined by the received time stamp on the document or electronic mail). Appeals filed after 5:00 p.m. on the 30th calendar day from which the Commissioner's decision was filed with the Board will be dismissed as untimely, absent a showing of good cause.

HOW TO SUBMIT AN APPEAL TO THE BOARD

An appeal to the Board may be submitted via postal mail or electronic mail and must contain all signatures and required appeal contents. An electronic filing must contain the scanned original signature of the appellant(s). The appeal documents must be sent to the following address.

Chair, Board of Environmental Protection
c/o Board Clerk
17 State House Station
Augusta, ME 04333-0017
ruth.a.burke@maine.gov

The DEP may also request the submittal of the original signed paper appeal documents when the appeal is filed electronically. The risk of material not being received in a timely manner is on the sender, regardless of the method used.

At the time an appeal is filed with the Board, the appellant must send a copy of the appeal to: (1) the Commissioner of the DEP (Maine Department of Environmental Protection, 17 State House Station, Augusta, Maine 04333-0017); (2) the licensee; and if a hearing was held on the application, (3) any intervenors in that hearing proceeding. **Please contact the DEP at 207-287-7688 with questions or for contact information regarding a specific licensing decision.**

REQUIRED APPEAL CONTENTS

A complete appeal 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 bring the 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 of 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 criteria 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 to changes in specific license 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 hearing must be filed as part of the notice of appeal, and it must include an offer of proof regarding the testimony and other evidence that would be presented at the hearing. The offer of proof must consist of a statement of the substance of the evidence, its relevance to the issues on appeal, and whether any witnesses would testify. 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 supplemental evidence must be submitted with the appeal. The Board may allow new or additional evidence to be considered in an appeal only under limited circumstances. The proposed supplemental 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. Requirements for supplemental evidence are set forth 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 accessible by the DEP. Upon request, the DEP will make application materials available to review and photocopy during normal working hours. There may be 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 the appeal.* DEP staff will provide this information upon 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 licensee may proceed with a project pending the outcome of an appeal, but the licensee 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 acknowledge receipt of an appeal, and it will provide the name of the DEP project manager assigned to the specific appeal. The notice of appeal, any materials admitted by the Board as supplementary evidence, any materials admitted in response to the appeal, relevant excerpts from the DEP's administrative record for the application, and the DEP staff's recommendation, in the form of a proposed Board Order, will be provided to Board members. The appellant, the licensee, and parties of record are notified in advance of the date set for the Board's consideration of an appeal or request for a hearing. The appellant and the licensee will have an opportunity to address the Board at the Board meeting. The Board will decide whether to hold a hearing on appeal when one is requested before deciding the merits of the appeal. The Board's decision on appeal may be to affirm all or part, affirm with conditions, order a hearing to be held as expeditiously as possible, reverse all or part of the decision of the Commissioner, or remand the matter to the Commissioner for further proceedings. The Board will notify the appellant, the licensee, and parties of record of its decision on appeal.

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 Clerk at 207-287-2811 or the Board Executive Analyst at 207-314-1458 bill.hinkel@maine.gov, or for judicial appeals contact the court clerk's office in which the appeal will be filed.

Note: This information sheet, in conjunction with a review of the statutory and regulatory provisions referred to herein, is provided to help a person to understand their rights and obligations in filing an administrative or judicial appeal. 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.

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

IN THE MATTER OF

ASHLAND WATER AND SEWER DISTRICT	)	MAINE POLLUTANT DISCHARGE
PUBLICLY OWNED TREATMENT WORKS	)	ELIMINATION SYSTEM PERMIT
ASHLAND, AROOSTOOK COUNTY, MAINE	)	AND
ME0101087	)	WASTE DISCHARGE LICENSE
W002697-6C-H-R **APPROVAL**	)	**RENEWAL**

In compliance with the applicable provisions of *Pollution Control*, 38 M.R.S. §§ 411 – 424-B, *Water Classification Program*, 38 M.R.S. §§ 464 – 470 and *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, and applicable rules of the Department of Environmental Protection (Department), the Department has considered the application of the ASHLAND WATER AND SEWER DISTRICT (DISTRICT), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On February 20, 2020, the Department accepted as complete for processing a timely and complete application from the District for the renewal of Waste Discharge License (WDL) W002697-6C-G-R/ Maine Pollutant Discharge Elimination System (MEPDES) permit ME0101087, which was issued on April 16, 2015, for a five-year term. The April 16, 2015 MEPDES permit authorized the discharge of up to a monthly average flow of 0.30 million gallons per day (MGD) of secondary treated municipal wastewater through a palustrine forested wetland as a conveyance to the Aroostook River, Class B, in Ashland, Maine.

PERMIT SUMMARY

This permitting action is carrying forward all the terms and conditions of the previous permitting action and subsequent minor revisions except that this permitting action is:

1. Establishing a new monitoring season for *E.coli* that starts on April 15th and runs through October 31st based upon *Standards for Classification of Fresh Surface Waters*, 38 M.R.S. §§ 465(2)(B).

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CONCLUSIONS

Based on the findings summarized in the attached Fact Sheet dated May 10, 2022, and subject to the special and standard conditions that follow, 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 natural 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 discharge will be subject to effluent limitations that require application of best practicable treatment as defined in *Conditions of licenses*, 38 M.R.S. § 414-A(1)(D).

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ACTION

Based on the findings and conclusions as stated above, the Department APPROVES the above noted application of the ASHLAND WATER AND SEWER DISTRICT to discharge a monthly average flow of 0.30 MGD of secondary treated sanitary wastewater through a palustrine forested wetland as a conveyance to the Aroostook River, Class B, in Ashland, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

1. *Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable to All Permits*, revised July 1, 2002, copy attached.

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) (amended June 9, 2018)].

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS 17 DAY OF May 2022.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: 
for MELANIE LOYZIM, Commissioner

FILED

MAY 17, 2022

State of Maine
Board of Environmental Protection

Date filed with Board of Environmental Protection

Date of initial receipt of application: February 14, 2020
Date of application acceptance: February 20, 2020

This Order prepared by Aaron Dumont, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge **secondary treated municipal wastewater from Outfall 001A** through a palustrine forested wetland as a conveyance to the Aroostook River at Ashland. Such treated wastewater discharges must be limited and monitored by the permittee as specified below[(1)].

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow *[50050]*	0.30 MGD *[03]*	---	Report MGD *[03]*	---	---	---	Continuous *[99/99]*	Recorder *[RC]*
Biochemical Oxygen Demand (BOD_5) *[00310]*	75 lbs/day *[26]*	113 lbs/day *[26]*	125 lbs/day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	2/Month *[02/30]*	Composite *[24]*
BOD_5 Percent Removal **(2)** *[81010]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
Total Suspended Solids (TSS) *[00530]*	75 lbs/day *[26]*	113 lbs/day *[26]*	125 lbs/day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	2/Month *[02/30]*	Composite *[24]*
TSS Percent Removal**(2)** *[81011]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
E. coli Bacteria(3) (April 15th – October 31st.) *[31633]*	---	---	---	64/100 ml**(4)** *[13]*	---	427/100 mL *[13]*	2/Month *[02/30]*	Grab *[GR]*
Total Residual Chlorine**(5)** *[50060]*	---	---	---	---	---	1.0 mg/L *[19]*	1/Day *[01/01]*	Grab *[GR]*
pH (Std. Units)**(6)** *[00400]*	---	---	---	---	---	6.0 – 9.0 SU *[12]*	5/Week *[05/07]*	Grab *[GR]*
Mercury (Total)**(7)** *[71900]*	---	---	---	8.97 ng/L *[3M]*	---	13.65 ng/L *[3M]*	1/Year *[01/YR]*	Grab *[GR]*

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 Pages 6 – 10 of this permit for applicable footnotes.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

2. ***SCREENING LEVEL -*** Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement.

Effluent Characteristic	Discharge Limitations				Minimum Monitoring Requirements	
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type[3]
Whole Effluent Toxicity[8]						
Acute – NOEL						
Ceriodaphnia dubia (Water flea) *[TBP3B]*	---	---	---	Report % *[23]*	1/Year *[01/YR]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TBQ6F]*	---	---	---	Report % *[23]*	1/Year *[01/YR]*	Composite *[24]*
Chronic – NOEL						
Ceriodaphnia dubia (Water flea) *[TBP3B]*	---	---	---	Report % *[23]*	1/Year *[01/YR]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TBQ6F]*	---	---	---	Report % *[23]*	1/Year *[01/YR]*	Composite *[24]*
Analytical Chemistry[9,11] *[51477]*	---	---	---	Report ug/L *[28]*	1/Quarter *[01/90]*	Composite/Grab *[24]*
Priority Pollutant[10,11] *[50008]*	---	---	---	Report ug/L *[28]*	1/Year *[01/YR]*	Composite/Grab *[24]*

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 Pages 6 – 10 of this permit for applicable footnotes.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

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. Any change in sampling location must be approved by the Department in writing. The permittee must conduct sampling and analysis 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 wastewater. Samples that are sent to a POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (effective 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 treatment permittee must maintain a minimum of 85 percent removal of both BOD_5 and TSS for all flows receiving secondary treatment during all months that the facility discharges. Compliance with the limitation must be based on a twelve-month rolling influent and twelve-month rolling effluent averages. For the purposes of this permitting action, the twelve-month rolling average calculation is based on the most recent twelve-month period. The permittee is required to report the percent removal values on the monthly Discharge Monitoring Report and on the Department's 49 form.

3. **Bacteria Limits** – *E. coli* bacteria limits and monitoring requirements are seasonal and apply between April 15 and October 31st of each year. The Department reserves the right to require year-round bacteria limits to protect the health, safety and welfare of the public.

4. **Bacteria Reporting** – The monthly average *E. coli* bacteria limitation is a geometric mean limitation and sample results must be reported as such.

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SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

5. **TRC Monitoring** – Limitations and monitoring requirements are in effect any time elemental chlorine or chlorine-based compounds are utilized to disinfect the discharge(s). The permittee must utilize a USEPA-approved test method capable of bracketing the TRC limitations specified in this permitting action. Monitoring for TRC is only required when elemental chlorine or chlorine-based compounds are in use for effluent disinfection. For instances when a facility has not disinfected with chlorine-based compounds for an entire reporting period, the facility must report "NODI-9" for this parameter on the monthly DMR or "N9" if the submittal is an electronic DMR.

6. **pH Range Limitation** – The pH value of the effluent must not be lower than 6.0 standard units (SU) nor higher than 9.0 SU at any time unless these limitations are exceeded due to natural causes. The permittee must provide oral notification to the Department of any exceedance within 24 hours from the time the permittee becomes aware of the circumstances and must submit a written explanation to the Department of the exceedance within 5 days of the time the permittee becomes aware of the circumstances.

7. **Mercury** – The permittee must conduct all mercury sampling required by this permit or required to determine compliance with interim limitations established pursuant to 06-096 CMR 519 in accordance with the USEPA's "clean sampling techniques" found in USEPA Method 1669, *Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels*. All mercury analysis must be conducted in accordance with USEPA Method 1631, *Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry.* For a mercury test results reporting form, select "Whole effluent Toxicity, Chemistry and Mercury Reporting forms" at https://www.maine.gov/dep/water/wd/municipal_industrial/index.html. Compliance with the monthly average limitation established in Special Condition A of this permit will be based on the cumulative arithmetic mean of all mercury tests results that were conducted utilizing sampling Method 1669 and analysis Method 1631E on file with the Department for this facility.

8. **Whole effluent toxicity (WET) testing** – Definitive WET testing is a multi-concentration testing event (a minimum of five dilutions bracketing the critical acute and chronic thresholds of 0.48% and 0.42%, respectively), which provides an estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOEC. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no observed effect level with survival, reproduction and growth as the end points. The critical acute and chronic thresholds were derived as the mathematical inverse of the applicable (modified) acute and chronic dilution factors of 208:1 and 236:1, respectively. See https://www.maine.gov/dep/water/wd/municipal_industrial/index.html for a copy of the Department's WET reporting form.

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

a. Surveillance level testing – Pursuant to 06-096 CMR 530, surveillance level testing is waived for this facility.

b. Screening level testing – Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement, the permittee must conduct screening level WET testing at a frequency of once per year (1/Year) for the water flea (*Ceriodaphnia dubia*) and the brook trout (*Salvelinus fontinalis*).

WET test results must be submitted to the Department not later than the next Discharge Monitoring Report (DMR) required by the permit, provided, however, that the permittee may review the toxicity reports for up to 10 business days of their availability before submitting them. The permittee must evaluate test results being submitted and identify to the Department possible exceedances of the critical acute and chronic water quality thresholds of 0.48% and 0.42%, respectively.
See https://www.maine.gov/dep/water/wd/municipal_industrial/index.html for WET reporting forms.

Toxicity tests must be conducted by an experienced laboratory approved by the Department. The laboratory must follow procedures as described in the following USEPA methods manuals as modified by Department protocol for the brook trout.

a. Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Water to Freshwater Organisms, Fourth Edition, October 2002, EPA-821-R-02-013.

b. Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, October 2002, EPA-821-R-02-012.

Results of WET tests must be reported each time a WET test is performed. Reporting forms can be found at: https://www.maine.gov/dep/water/wd/municipal_industrial/index.html, under *Whole Effluent Toxicity, Chemistry, and Mercury Reporting Forms.* Each time a WET test is performed, the permittee must sample and analyze for the parameters in the WET Chemistry and the Analytical Chemistry section of the reporting forms.

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SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

Footnotes:

9. **Analytical chemistry**

   a. **Surveillance Level Testing** – Pursuant to 06-096 CMR 530, surveillance level testing is waived for this facility.

   b. **Screening level testing** – Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement, the permittee must conduct analytical chemistry testing at a minimum frequency of once per calendar quarter (1/Quarter) for four consecutive calendar quarters.

10. **Priority pollutant testing**

   a. **Surveillance level testing** – Surveillance level testing is not required pursuant to 06-096 CMR 530.

   b. **Screening level testing** – Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement, the permittee must conduct screening level priority pollutant testing at a minimum frequency of once per year (1/Year).

11. **Analytical Chemistry and Priority Pollutant** – Testing must be conducted on samples collected at the same time as those collected for whole effluent toxicity tests when applicable. Priority pollutant and analytical chemistry testing must be conducted using methods that permit detection of a pollutant at existing levels in the effluent or that achieve minimum reporting levels of detection as specified by the Department.

    Test results must be submitted to the Department not later than the next Discharge Monitoring Report (DMR) required by the permit, provided, however, that the permittee may review the toxicity reports for up to 10 business days of their availability before submitting them. The permittee must evaluate test results being submitted and identify to the Department, possible exceedances of the acute, chronic or human health AWQC as established in *Surface Water Quality Criteria for Toxic Pollutants*, 06-096 CMR 584 (amended February 16, 2020). For the purposes of DMR reporting, enter a "1" for yes, testing done this monitoring period or "N9" monitoring not required this period.

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SPECIAL CONDITIONS

B. 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 by 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 by the classification of the receiving waters.

3. The permittee must not discharge effluent that causes visible discoloration or turbidity, in the receiving waters or otherwise impairs the uses designated for the classification of the receiving waters.

4. The permittee must not discharge effluent that lowers the quality of any classified body of water below such classification or lower the existing quality of any body of water if the existing quality is higher than the classification.

C. TREATMENT PLANT OPERATOR

The person who has the management responsibility over the treatment facility must hold a minimum of a **Grade II** certificate (or higher) or a Registered Maine Professional Engineer pursuant to *Sewage 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.

D. LIMITATIONS FOR INDUSTRIAL USERS

Pollutants introduced into the wastewater collection and treatment system by a non-domestic source (user) must not pass through or interfere with the operation of the treatment system. The permittee must conduct an Industrial Waste Survey (IWS) any time a new industrial user proposes to discharge within its jurisdiction; an existing user proposes to make a significant change in its discharge, or, at an alternative minimum, once every permit cycle and submit the results to the Department. The IWS must identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging into the POTW subject to Pretreatment Standards under section 307(b) of the federal Clean Water Act, 40 CFR Part 403 (general pretreatment regulations) or *Pretreatment Program*, 06-096 CMR 528 (last amended March 17, 2008).

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SPECIAL CONDITIONS

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 February 20, 2020; 2) the terms and conditions of this permit; and 3) only from Outfall #001A. 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.

F. NOTIFICATION REQUIREMENT

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

1. Any introduction of pollutants into the wastewater collection and treatment system from an indirect discharger in a primary industrial category discharging process wastewater; and

2. Any substantial change (increase or decrease) in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants to the system at the time of permit issuance.

3. 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. WET WEATHER MANAGEMENT PLAN

The treatment facility staff must have a current written Wet Weather Flow Management Plan to direct the staff on how to operate the facility effectively during periods of high flow. The Department acknowledges that the existing collection system may deliver flows in excess of the monthly average design capacity of the treatment plant during periods of high infiltration and rainfall.

The plan must conform to Department guidelines for such plans and must include operating procedures for a range of intensities, address solids handling procedures (include septic wastes and other high strength wastes if applicable) and provide written operating and maintenance procedures during the events. Operating procedures for a range of intensities address solids handling procedures (including septic waste and other high strength wastes if applicable) and provide written operating and maintenance procedures for before, during and after the events.

SPECIAL CONDITIONS

G. WET WEATHER MANAGEMENT PLAN (cont'd)

The permittee must review their plan at least annually and record any necessary changes to keep the plan up to date. The Department may require review and update of the plan as it is determined to be necessary.

H. OPERATIONS AND MAINTENANCE (O&M) PLAN

The permittee must maintain a current written comprehensive Operation & Maintenance (O&M) Plan for the facility. The plan must 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.

I. 06-096 CMR 530(2)(D)(4) STATEMENT FOR REDUCED/WAIVED TOXICS TESTING

By December 31 of each calendar year, the permittee must provide the Department with a certification describing any of the following that have occurred since the effective date of this permit ***[ICIS Code 75305]***. See **Attachment C** of the permit for an acceptable certification form to satisfy this Special Condition.

a. Changes in the number or types of non-domestic wastes contributed directly or indirectly to the wastewater treatment works that may increase the toxicity of the discharge;

b. Changes in the operation of the treatment works that may increase the toxicity of the discharge;

c. Changes in industrial manufacturing processes contributing wastewater to the treatment works that may increase the toxicity of the discharge;

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SPECIAL CONDITIONS

I. 06-096 CMR 530(2)(D)(4) STATEMENT FOR REDUCED/WAIVED TOXICS TESTING (cont'd)

In addition, in the comments section of the certification form, the permittee must provide the Department with statements describing;

d. Changes in stormwater collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge; and

e. Increases in the type or volume of transported (hauled) wastes accepted by the facility.

The Department may require that routine surveillance level testing be re-instated if it determines that there have been changes in the character of the discharge or if annual certifications described above are not submitted.

J. MONITORING AND REPORTING

Electronic Reporting

NPDES Electronic Reporting, 40 C.F.R. 127, requires MEPDES permit holders to submit monitoring results obtained during the previous month on an electronic discharge monitoring report to the regulatory agency utilizing the USEPA electronic system.

Electronic DMRs submitted using the USEPA NetDMR system, must be:

1. Submitted by a facility authorized signatory; and
2. Submitted no later than **midnight on the 15th day of the month** following the completed reporting period.

Documentation submitted in support of the electronic DMR may be attached to the electronic DMR. Toxics reporting must be done using the DEP toxsheet reporting form.

An electronic copy of the Toxsheet reporting document must be submitted to your Department compliance inspector as an attachment to an email. In addition, a hardcopy form of this sheet must be signed and submitted to your compliance inspector, or a copy attached to your NetDMR submittal will suffice. Documentation submitted electronically to the Department in support of the electronic DMR must be submitted no later than midnight on the 15th day of the month following the completed reporting period.

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SPECIAL CONDITIONS

J. MONITORING AND REPORTING (cont'd)

Non-electronic Reporting

If you have received a waiver from the Department concerning the USEPA electronic reporting rule, or are permitted to submit hardcopy DMR's to the Department, then your 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 a Department Regional Office such that the DMR's are received by the Department on or before the fifteenth (15th) day of the month** following the completed reporting period.

Toxsheet reporting forms must be submitted electronically as an attachment to an email sent to your Department compliance inspector. In addition, a signed hardcopy of your toxsheet must also be submitted.

A signed copy of the DMR and all other reports required herein must be submitted to the Department assigned compliance inspector (unless otherwise specified) following address:

Department of Environmental Protection
Northern Maine Regional Office
Bureau of Water Quality
Division of Water Quality Management
1235 Central Drive, Skyway Park
Presque Isle, Maine 04769

K. REOPENING OF PERMIT FOR MODIFICATION

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

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
MAINE WASTE DISCHARGE LICENSE

FACT SHEET

DATE: **May 10, 2022**

PERMIT NUMBER: **ME0101087**
WASTE DISCHARGE LICENSE: **W002697-6C-H-R**

NAME AND ADDRESS OF APPLICANT: **ASHLAND WATER AND SEWER DISTRICT**
P.O. Box 340
ASHLAND, ME 04732

COUNTY: **AROOSTOOK**

NAME AND ADDRESS WHERE DISCHARGE(S) OCCUR(S):

ASHLAND WATER AND SEWER DISTRICT
127 LAGOON ROAD
ASHLAND, ME 04732

RECEIVING WATER CLASSIFICATION: **AROOSTOOK RIVER/CLASS B**

COGNIZANT OFFICIAL CONTACT INFORMATION:

JOSH FISHER
(207)-453-2223
ashlandwater1@gmail.com

1. APPLICATION SUMMARY

On February 20, 2020, the Department of Environmental Protection (Department) accepted as complete for processing a timely and complete application from the Ashland Sewer District (District) for the renewal of Waste Discharge License (WDL) W002697-6C-G-R/ Maine Pollutant Discharge Elimination System (MEPDES) permit ME0101087, which was issued on April 16, 2015, for a five-year term. The April 16, 2015 MEPDES permit authorized the discharge of up to a monthly average flow of 0.30 million gallons per day (MGD) of secondary treated municipal wastewater through a palustrine forested wetland as a conveyance to the Aroostook River, Class B, in Ashland, Maine.

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2. PERMIT SUMMARY

a. Terms and Conditions: This permitting action is carrying forward all the terms and conditions of the previous permitting action and subsequent minor revisions except that it:

1. Establishing a new monitoring season for *E.coli* that starts on April 15th and runs through October 31st based upon *Standards for Classification of Fresh Surface Waters*, 38 M.R.S. §§ 465(2)(B).

b. History: This section provides a summary of significant licensing/permitting actions and milestones that have been completed for the permittee.

June 30, 1986 – The United States Environmental Protection Agency (USEPA) issued National Pollution Discharge Elimination Permit (NPDES) permit #ME0101087 to the permittee for the discharge of secondary treated wastewater to a palustrine forested wetland as a conveyance to Aroostook River in Ashland. The 6/30/86 NPDES permit superseded the previous NPDES permit issued on May 31, 1979.

May 18, 2000 – The Department issued WDL #W002697-5L-C-R to the permittee for the monthly average discharge of up to 0.30 MGD of secondary treated sanitary wastewater to a palustrine forested wetland as a conveyance to Aroostook River in Ashland. The 5/18/00 WDL superseded WDL #W002697-59-B-R issued on April 6, 1990 and WDL #W002697-45-A-R issued on June 12, 1984.

January 12, 2001 – The Department received authorization from the USEPA to administer the NPDES permitting program in Maine, excluding areas of special interest to Maine Indian Tribes. From this point forward, the program has been referred to as the Maine Pollutant Discharge Elimination System (MEPDES) program, and MEPDES permit #ME0101087 has been utilized for this facility.

March 10, 2010 – The Department issued WDL #W002697-5L-E-R to the permittee for the monthly average discharge of up to 0.30 MGD of secondary treated sanitary wastewater to a palustrine forested wetland as a conveyance to Aroostook River in Ashland. The 5/18/00 WDL superseded WDL #W002697-59-B-R issued on April 6, 1990, WDL #W002697-45-A-R issued on June 12, 1984, WDL #W002697-5L-C-R issued on May 18, 2000 and WDL#002697-5L-D-R issued on April 8, 2005.

February 6, 2012 – The Department issued permit modification #ME0101087/WDL# W002697-6C-F-M to incorporate the average and maximum concentration limits for total mercury.

April 16, 2015 – The Department issued combination MEPDES #ME0100439/WDL #W002753-6C-F-R for a five-year term.

February 14, 2020 – The District submitted a timely and complete General Application to the Department for renewal of the April 16, 2015 MEPDES permit. The application was accepted for processing on February 20, 2020 and was assigned WDL #W002697-6C-H-R/MEPDES #ME0101087.

2. PERMIT SUMMARY (cont'd)

c. Source Description: The permittee owns and operates a wastewater treatment facility in Ashland, Maine, for the treatment of sanitary, process and non-process wastewater generated by a total of approximately 1,000 people in the Town of Ashland.

The permittee has historically received process wastewater from one or more "hot ponds" utilized by Fraser Timber Company, a debarking operation and a significant industrial user as defined by Department rule 06-096 CMR Chapter 528(4)(t). This source of wastewater was subject to national effluent guidelines for *Timber Products Processing Point Source Category* promulgated at Title 40 CFR Part 429. At the time of this permitting action the process wastewater input from the hot ponds has ceased and the facility no longer exists as Fraser Timber Company has be demolished.

Historically the permittee received up to approximately 37,400 gallons per day (based on maximum operating capacity) of cooling tower blowdown on a continuous basis from ReEnergy Plant. ReEnergy was a significant industrial user as defined by Department rule 06-096 CMR Chapter 528(4)(t) and had to meet general pretreatment standards for existing sources promulgated at 40 CFR Part 403. At the time of this permitting action the process wastewater input from the hot ponds no longer exists and Ashland ReEnergy plant has also been demolished.

The permittee maintains an approximately 6-mile long, 100% separated sewer collection system and one pump station, which is located on the State Route 11 bridge crossing the Aroostook River. There are no combined sewer overflow (CSO) points associated with the collection system. The permittee experiences high flows during heavy rain events and during two weeks in April. The permittee is working with the Town of Ashland to address inflow and infiltration issues through a Sewer Use Ordinance. The permittee has a Wet Weather Management Plan that was last updated in April 2009. The permittee is not approved and does not seek approval to accept septage at the treatment facility.

During the permit term starting on April 16, 2015 the District re-piped all three storage lagoons to prevent short circuiting. During the process the district also removed 1,400 tons of sludge from the lagoons.

A map showing the location of the facility and the receiving water is included as Fact Sheet **Attachment A**.

d. Wastewater Treatment: The permittee commenced operation in 1963 to provide secondary treatment of sanitary, process and non-process wastewater via influent screening and three facultative lagoons. Raw wastewater is conveyed through a basket grit removal system and is subsequently measured using a 6-inch Parshall flume, which are located in the influent control building. Screened influent flows to the first of three facultative lagoons which may be operated in parallel during high flows or in series to optimize effluent quality. Lagoon #1 is equipped with four mechanical surface aerators, measures 254 feet wide by 703 feet long by 6 feet deep, has a volume of 7.3 million gallons and occupies approximately 4.1 acres of land.

2. PERMIT SUMMARY (cont'd)

The permittee typically operates the lagoons in series such that wastewater from Lagoon #1 flows to Lagoon #2, which measures 228 feet wide by 476 feet long by 6 feet deep, has a volume of approximately 4.8 million gallons, occupies a surface area of approximately 2.5 acres and is equipped with two (2) mechanical surface aerators. Wastewater from Lagoon #2 flows to Lagoon #3, which measures 373 feet wide by 282 feet long by 6 feet deep, has a volume of approximately 4.8 million gallons, occupies a surface area of approximately 2.4 acres and does not include aeration. Effluent flow from Lagoon #3 is conveyed to an effluent control building for disinfection, when necessary, using premixed calcium hypochlorite. Effluent flow is measured using a "V-notch" weir. The permittee stated that they do not intend to disinfect the effluent between May 15 and September 30 provided that the bacteria content of the effluent prior to disinfection is equal to or lower than the *E. coli* effluent limits in this permitting action.

The outfall pipe from Lagoon #3 terminates immediately after the effluent control building in a rock-lined conveyance. The flow is conveyed to a culvert which serves to transport the wastewater from the east side to the west side of a Bangor and Aroostook railroad bed. From this point, the flow is conveyed in a defined channel. Final effluent travels 1000 feet through palustrine, forested wetland as a conveyance to the Aroostook River. Effluent flow through the wetland becomes braided and less defined and meanders through an undetermined area of forested wetland before entering a defined channel immediately adjacent and perpendicular to the eastern shore of the Aroostook River. The effluent channel bisects a natural ice berm on the shore of the river and effluent ultimately enters the river as surface flow.

A process flow diagram submitted by the permittee is included as Fact Sheet **Attachment B**.

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 (amended February 16, 2020), 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 major river basins, 38 M.R.S. § 467(15)(C)(1)(b) classifies the main stem of the Aroostook River from the Route 11 bridge to the Sheridan Dam, including the point of discharge, as a Class B waterway that is subject to a sustenance fishing designated use pursuant to *Sustenance Fishing Designated Use* 38 M.R.S. §466-A. The freshwater wetland at the point of discharge is hydrologically connected to the Aroostook River via surface and ground water flows and is also considered to be a Class B waterbody. *Standards for classification of fresh surface waters*, 38 M.R.S. § 465(3) describes the standards for Class B waters.

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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, lists the segment where the discharge occurs in the Aroostook River as (ABD Assessment Unit ID ME0101000411_147R) "Category 2: Rivers and Streams Attaining some Designated Uses – Insufficient Information for Other Uses.

The Report lists all of Maine's fresh waters as, "Category 4-A: Waters Impaired by Atmospheric Deposition of Mercury." Impairment in this context refers to a statewide fish consumption advisory due to elevated levels of mercury in some fish tissues. The Report states, "All freshwaters are listed in Category 4A (Total Maximum Daily Load (TMDL) Completed) due to the USEPA approval of a Regional Mercury TMDL. Maine has a fish consumption advisory for fish taken from all freshwaters due to mercury. Many waters and many fish from any given water do not exceed the action level for mercury. However, because it is impossible for someone consuming a fish to know whether the mercury level exceeds the action level, the Maine Department of Health and Human Services decided to establish a statewide advisory for all freshwater fish that recommends limits on consumption. Maine has already instituted statewide programs for removal and reduction of mercury sources."

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

6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

a. Flow: The previous permitting action established, and this permitting action is carrying forward, a monthly average discharge flow limit of 0.30 MGD based on the design capacity for the treatment facility, and a daily maximum discharge flow reporting requirement.

The Department reviewed 66 Discharge Monitoring Reports (DMRs) that were submitted for the period of April 2015 – March 2021. A review of the data indicates that following:

Flow (DMRs=69)

Value	Limit (MGD)	Range (MGD)	Mean (MGD)
Monthly Average	0.30	0.03 – 0.73	0.182
Daily Maximum	Report	0.11 – 1.26	0.422

During the monitoring and reporting period there were 9 excursions from the monthly average flow limit of 0.30 MGD.

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

b. Dilution Factors – The Department establishes applicable dilution factors for the discharge in accordance with freshwater protocols established in *Surface Water Toxics Control Program* Chapter 530, October 2005. With a permitted flow limit of 0.30 MGD, the dilution factors are as follows:

Acute: 1Q10 = 96 cfs $\Rightarrow \frac{(96 \text{ cfs})(0.6464) + (0.30 \text{ MGD})}{(0.30 \text{ MGD})} = 208:1$

Chronic: 7Q10 =109 cfs $\Rightarrow \frac{(109 \text{ cfs})(0.6464) + (0.30 \text{ MGD})}{(0.30 \text{ MGD})} = 236:1$

Harmonic Mean Dilution: 695cfs $\Rightarrow \frac{(695 \text{ cfs})(0.6464) + (0.30 \text{ MGD})}{(0.30 \text{ MGD})} = 1498:1$

Final effluent is conveyed through a forested wetland as a conveyance to the Aroostook River. Prior to issuance of the 5/18/00 licensing action, the permittee in conjunction with the Department conducted what the licensing action referred to as a "crude dye study" to determine the approximate travel time of the effluent from the outfall pipe to the edge of the river. The Department documented that the results of this evaluation indicate a travel time of approximately two (2) hours. This relatively short travel time indicates that the wetland serves as a conveyance for the discharge to the Aroostook River. On December 6, 2004, Department staff inspected the outfall and determined that, after dispersing through the forested wetland, the effluent flow is conveyed back into a defined channel adjacent to the river. Based on a Department best professional judgment determination, this permitting action is utilizing the 1Q10 stream design flow in acute evaluations.

c. Biochemical Oxygen Demand (BOD_5) and Total Suspended Solids (TSS): The previous permitting action established, and this permitting action is carrying forward, monthly average, weekly average and daily maximum technology-based concentration limits of 30 mg/L and 45 mg/L, respectively, for BOD_5 and TSS based on the secondary treatment requirements specified at *Effluent Guidelines and Standards*, 06-096 CMR 525(3)(III) (effective January 12, 2001), and a daily maximum concentration limit of 50 mg/L, which is based on a Department best professional judgment of best practicable treatment for secondary treated wastewater. The technology-based monthly average, weekly average and daily maximum mass limits of 75 lbs./day, 113 lbs./day and 125 lbs./day, respectively, established in the previous permitting action for BOD_5 and TSS are based on the monthly average flow design criterion of 0.30 MGD and the applicable concentration limits, and are also being carried forward in this permitting action. This permitting action is carrying forward a requirement for a minimum of 85% removal of BOD_5 & TSS pursuant to 06-096 CMR 525(3)(III)(a&b)(3). Percent removal is based on a rolling average calculation as described in Special Condition A, Footnote #2 of the permit.

In 2015 the Department is eliminated the waiver to achieve 85% removal of BOD_5 and TSS when the monthly average influent is less than 200 mg/L as the secondary treatment regulations do not contain a provision for such a waiver. The requirement to achieve 85% removal of BOD_5 and TSS was established for all flows receiving secondary treatment.

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

The Department reviewed 65 Discharge Monitoring Reports (DMRs) that were submitted for the period April 2015 – March 2021. A review of the data indicates that following:

BOD_5 Mass (DMRs=68)

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	75	1 – 85	21.0
Weekly Average	113	4 – 102	26.5
Daily Maximum	125	4 – 102	26.4

During the monitoring period of April 2015 – March 2021 there were four excursions from the monthly and weekly averages, and daily maximum mass limitations.

BOD_5 Concentration (DMRs=68)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	4.0 – 28	14.0
Weekly Average	45	8.0 – 30	14.0
Daily Maximum	50	8.0 – 30	15.5

During the monitoring period of April 2015 – March 2021 there were four excursions from the monthly and weekly averages, and daily maximum concentration limitations.

TSS Mass (DMRs=68)

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	75	1 – 158	27
Weekly Average	113	1 – 198	36.3
Daily Maximum	125	1 – 198	36.2

TSS Concentration (DMRs=68)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	2 – 78	18.4
Weekly Average	45	2 – 104	24.0
Daily Maximum	50	2 – 104	24.0

The previous permitting action established a 2/month monitoring frequency for monthly average, weekly average, and daily maximum for both mass and concentration. This permitting action is carrying forward those effluent limitations for TSS mass and concentration.

During the monitoring and reporting period of April 2015 – March 2021 there were 35 excursions from TSS mass and TSS concentration limitations.

e. *E.coli* bacteria: The previous permitting established, a seasonal (May 15th – September 30th of each year) monthly average and daily maximum *E. coli* bacteria concentration limits of 64 colonies/100 ml and 427 colonies/100 ml, respectively. This permitting action is established a seasonal monthly average (geometric mean) *E. coli* concentration limit of 64 colonies/100 mL and a daily maximum (instantaneous) *E. coli* concentration limit of 236 colonies/100 mL which were based on the State of Maine Water Classification Program criteria for Class B waters found in *Standards for classification of fresh surface waters,* 38 M.R.S. § 465(3).

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

This permitting action is carrying forward the sampling frequency of once per month (1/Month) based on Department best professional judgment of a sample frequency that is adequate to determine ongoing compliance with this permit. The Department has determined that end-of-pipe limitations for the instantaneous concentration standard of 236 colonies/100 ml will be achieved through available dilution of the effluent with the receiving waters and need not be revised in MEPDES permits for facilities with adequate dilution.

A review of the 29 discharge monitoring reports submitted for the reporting period of May 2015 – March 2021 show that there was a total of one excursion (8/31/18 of 1260 colonies/100 mL) from the daily maximum limitation of 427 colonies/100 mL.

f. Total Residual Chlorine (TRC): The previous permitting action established a technology-based daily maximum concentration limit of 1.0 mg/L for TRC. Limitations on TRC are specified to ensure that ambient water quality standards are maintained and that BPT technology is being applied to the discharge. Department licensing/permitting actions impose the more stringent of either a water-quality based or BPT based limit. With acute and chronic dilution factors associated with the discharge water quality-based concentration thresholds the discharge may be calculated as follows:

			Calculated	
Acute (A) Criterion	Chronic (C) Criterion	A & C Dilution Factors	Acute Threshold	Chronic Threshold
0.019 mg/L	0.011 mg/L	208:1 (A) 236:1 (C)	3.9 mg/L	2.5 mg/L

The Department has established a daily maximum BPT limitation of 1.0 mg/L for facilities that disinfect their effluent with elemental chlorine or chlorine-based compounds. The BPT-based limit of 1.0 mg/L is more stringent than the calculated chronic water quality-based limit of 2.3 mg/L and is therefore being carried forward in this permitting action.

The Department reviewed 69 Discharge Monitoring Reports (DMRs) for TRC as no DMRs were submitted for TRC during the period May 2015 – March 2021 and there were no exceedances for the Daily Maximum limit of 1.0 mg/L. This permitting action is carrying forward the minimum monitoring frequency for TRC of once per day, which is required only when the facility is disinfecting the effluent, based on based on best professional judgment.

g. pH: The previous permitting action established, and this permitting action is carrying forward, a technology-based pH limit of 6.0 – 9.0 standard units (SU), which is based on 06-096 CMR 525(3)(III), and allowance for excursions of pH above and below the permitted limits provided that excursions were the result of natural causes and that the permittee provides the Department with an oral explanation for all excursions within 24 hours of the permittee becoming aware of the circumstances and a written explanation within 5 days of the permittee becoming aware of the situation.

The Department reviewed 69 Discharge Monitoring Reports (DMRs) for pH and there were 19 exclusions that fell outside of the limit of 6.0-9.0.

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

h. Mercury: Pursuant to *Certain deposits and discharges prohibited*, 38 M.R.S. § 420 and *Waste Discharge Licenses*, 38 M.R.S. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001), the Department issued an interim average and daily maximum effluent concentration limits of 13.65 parts per trillion (ppt) and 8.97 ppt, respectively, and a minimum monitoring frequency requirement of two (4) tests per year for mercury. 38 M.R.S. § 420(1-B)(B)(1) provides that a facility is not in violation of the Ambient Water Quality Criteria (AWQC) for mercury if the facility is in compliance with an interim discharge limit established by the Department. A review of the Department's data base for the period of March 2000 – March 2021, the results have been reported as follows:

Mercury (DMRs=20)

Value	Limit (ng/L)	Range (ng/L)	Mean (ng/L)
Average	8.97	1.0 – 32.0	3.50
Daily Maximum	13.65		

The Department issued a minor revision on February 6, 2012, thereby revising the minimum monitoring frequency requirement from four per year to once per year given the permittee has maintained at least 5 years of mercury testing data. Pursuant to 38 M.R.S. § 420(1-B)(F), this permitting action is carrying forward the 1/Year monitoring frequency established in the February 6, 2012, permit modification.

i. Whole Effluent Toxicity (WET) and Chemical-Specific 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 and 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.

WET, priority pollutant and analytical chemistry testing, as required by 06-096 CMR 530, is included in this permit in order to characterize the effluent. WET monitoring is required to assess and protect against impacts upon water quality and designated uses caused by the aggregate effect of the discharge on specific aquatic organisms. Acute and chronic WET tests are performed on the water flea *(Ceriodaphnia dubia)* and the Brook Trout *(Salvelinus fontinalis)*. Chemical-specific monitoring is required to assess the levels of individual toxic pollutants in the discharge, comparing each pollutant to acute, chronic, and human health water quality criteria. Priority pollutant testing refers to the analysis for levels of priority pollutants listed under "Priority Pollutants" on the form found at https://www.maine.gov/dep/water/wd/municipal_industrial/index.html. Analytical chemistry refers to those pollutants listed under "Analytical Chemistry" on the form found at See https://www.maine.gov/dep/water/wd/municipal_industrial/index.html.

06-096 CMR 530(2)(A) specifies the dischargers subject to the rule as:

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

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

The Ashland Sewer and Water District discharges domestic (sanitary) wastewater to surface waters and is therefore subject to the testing requirements of the toxics rule.

06-096 CMR 530(2)(B) categorizes discharges subject to the toxics rule into one of four levels (Level I through IV). The four categories for dischargers are as follows:

Level I	Chronic dilution factor of <20:1
Level II	Chronic dilution factor of ≥20:1 but <100:1.
Level III	Chronic dilution factor ≥100:1 but <500:1 or >500:1 and Q ≥1.0 MGD
Level IV	Chronic dilution factor >500:1 and Q ≤1.0 MGD

Based on the Chapter 530 criteria, the permittee's facility falls into the Level III frequency category as the facility has a chronic dilution factor of >20:1 but <100:1. 06-096 530(2)(D)(1) specifies that routine screening and surveillance level testing requirements are as follows:

Screening level testing

Level	WET Testing	Priority pollutant testing	Analytical chemistry
III	1 per year	1 per year	4 per year

Surveillance level testing

Level	WET Testing	Priority pollutant testing	Analytical chemistry
III	1 per year	None required	1 per year

This permit provides for reconsideration of effluent limits and monitoring schedules after evaluation of toxicity testing results. The monitoring schedule includes consideration of results currently on file, the nature of the wastewater, existing treatment, and receiving water characteristics.

k. Whole Effluent Toxicity (WET) Evaluation: 06-096 CMR 530(3)(E) states:

> For effluent monitoring data and the variability of the pollutant in the effluent**,** the Department must apply the statistical approach in Section 3.3.2 and Table 3-2 of USEPA's "Technical Support Document for Water Quality-Based Toxics Control" (USEPA Publication 505/2-90-001, March, 1991, EPA, Office of Water, Washington, D.C.) to data to determine whether water-quality based effluent limits must be included in a waste discharge license.

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

> Where it is determined through this approach that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedance of water quality criteria, appropriate water quality-based limits must be established in any licensing action.

On March 25, 2021, the Department conducted a statistical evaluation on the most recent 60 months of WET test results on file with the Department for the District in accordance with the statistical approach outlined above. The 3/25/2021 statistical evaluation indicates that none of the tests exceeded or had a reasonable potential to exceed the acute or chronic ambient water quality threshold of 0.48% and 0.42% for the water flea *(Ceriodaphnia dubia)* or the brook trout (*Salvelinus fontinalis)*. See **Attachment D** of the Fact Sheet for a summary of the WET test results.

Based on the provisions of 06-096 CMR 530 and Department best professional judgment, this permitting action is carrying forward the reduced surveillance level WET testing requirements for this facility. Special Condition G. 06-096 CMR 530(2)(D)(4) Statement for Reduced/Waived Toxics Testing of this Permit explains the statement required by the discharger to reduce WET testing.

l. Analytical Chemistry & Priority Pollutant Testing Evaluation:

06-096 CMR 530(4)(C) states:

> The background concentration of specific chemicals must be included in all calculations using the following procedures. The Department may publish and periodically update a list of default background concentrations for specific pollutants on a regional, watershed or statewide basis. In doing so, the Department must use data collected from reference sites that are measured at points not significantly affected by point and non-point discharges and best calculated to accurately represent ambient water quality conditions. The Department must use the same general methods as those in section 4(D) to determine background concentrations. For pollutants not listed by the Department, an assumed concentration of 10% of the applicable water quality criteria must be used in calculations.

06-096 CMR 530(3)(E) states, "Where it is determined through [the statistical approach referred to in USEPA's Technical Support Document for Water Quality-Based Toxics Control] that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedance of water quality criteria, appropriate water quality-based limits must be established in any licensing action."

06-096 CMR 530(3)(D) states, "Where the need for effluent limits has been determined, limits derived from acute water quality criteria must be expressed as daily maximum values. Limits derived from chronic or human health criteria must be expressed as monthly average values."

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

On March 25, 2021 the Department conducted statistical evaluations based on 10% of the ambient water quality criteria reserve being withheld (report 1222) and 15% of the reserved of the criteria being withheld to determine if the unallocated assimilative capacity would avoid an exceedance or avoid a reasonable potential to exceed applicable ambient water quality criteria for toxic pollutants. Report ID 1222 indicates the Ashland Sewer District facility did not have any reasonable potential to exceed acute and chronic limits for any chemicals.

Chapter 530 does not establish monitoring frequencies for parameters that exceed or have a reasonable potential to exceed AWQC. Monitoring frequencies are established on case by case basis given the timing, severity and frequency of occurrences of the exceedances or reasonable potential to exceed applicable critical water quality thresholds. Therefore, this permitting action is making a best professional judgment to establish the monitoring frequencies for the parameters of concern at the routine surveillance level frequency of 1/Year specified in Chapter 530.

As for the remaining chemical specific parameters tested to date, none of the test results in the 60-month evaluation period exceed or have a reasonable potential to exceed applicable acute, chronic or human health AWQC. Therefore, this permitting action is establishing a reduced surveillance level reporting and monitoring frequency for analytical chemistry of 1 Year for the first three years and the fifth year of the term of the permit. As with reduced WET testing, the MWD must file an annual certification with the Department pursuant to Chapter 530 §2(D)(3) and Special Condition J of this permit.

The receiving water is subject to a sustenance fishing designated use pursuant to 38 M.R.S. §466-A, therefore reasonable potential evaluations for human health AWQC were conducted using a fish consumption rate of 200 grams per day in accordance with 38 M.R.S. §466-A.1. and 06-096 CMR 584.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

The Department has made a best professional judgment determination based on information gathered to date, that as permitted, the discharge will not cause or contribute the failure of the Aroostook River to meet the standards for Class B classification and the designated uses of the river will continue to be maintained and protected.

8. PUBLIC COMMENTS

Public notice of this application was made in *Star Herald* newspaper on or about February 12, 2020. 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 must have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to *Application Processing Procedures for Waste Discharge Licenses,* 06-096 CMR 522 (effective January 12, 2001).

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9. DEPARTMENT CONTACTS

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

Aaron Dumont
Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 881-9279
e-mail: Aaron.A.Dumont@maine.gov

10. RESPONSE TO COMMENTS

During the period of March 18, 2022, through the effective date of this final agency action, the Department solicited comments on the draft MEPDES permit. The Department did not receive any comments resulting in substantive changes to the draft permit. It is noted that minor typographical and grammatical errors identified in comments were not summarized in this section, but were corrected, where necessary, in the final permit.

ATTACHMENT A

Legend

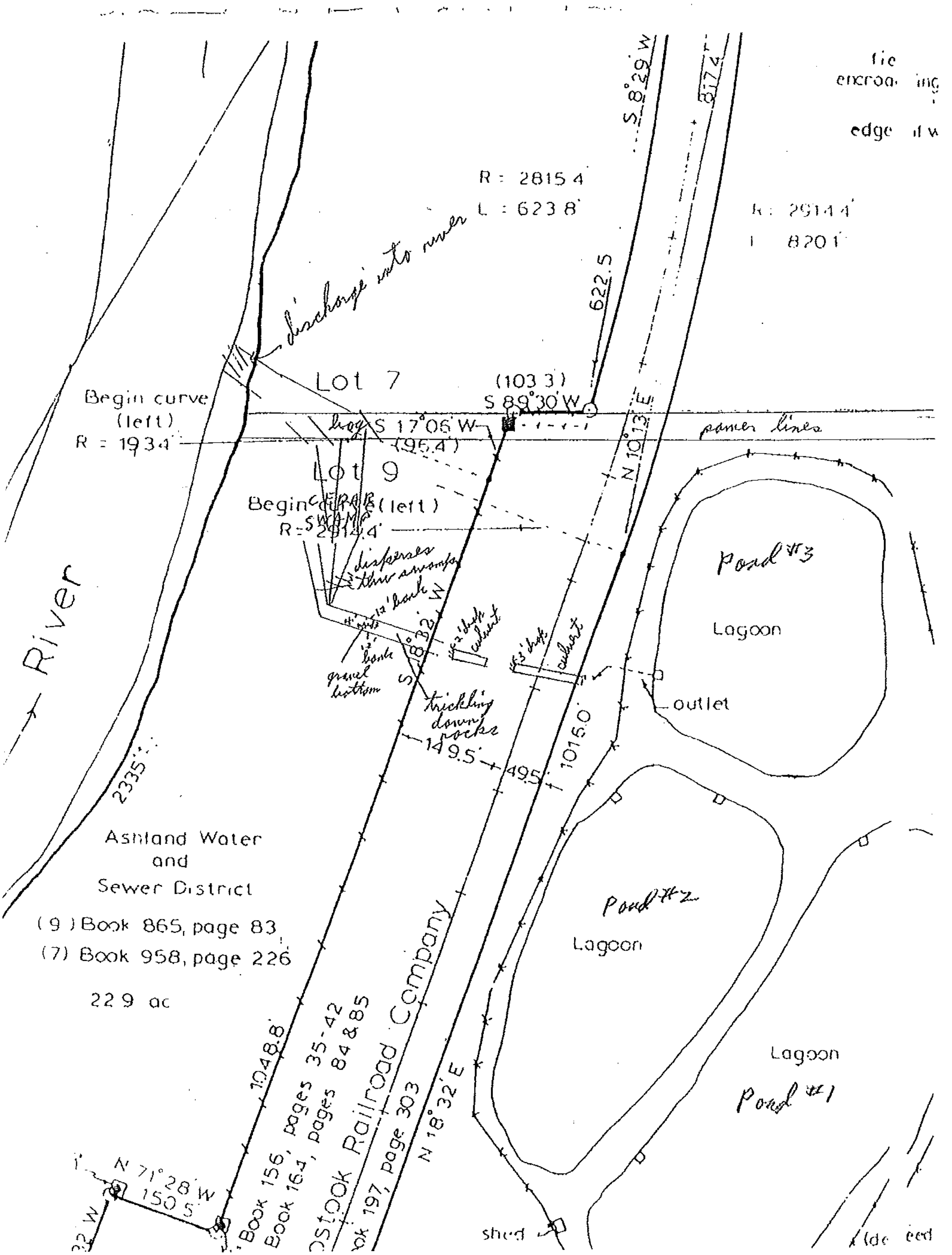
- Wastewater_Facilities
- Wastewater_Outfalls
- Public Drinking Water Supplies
- Railroads

Ashland, Maine

Map created by:
Bill Hinkel
Division of Water Resource Regulation
Maine Department of Environmental Protection
December 7, 2004

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF MAINE

ATTACHMENT B



S 8°29' W
R : 2815.4'
L : 623.8'
R : 2914.4'
L 820.1'
encroa ing
edge
discharge into river
622.5
Lot 7
(103.3)
S 89°30' W
Begin curve (left)
R = 1934'
S 17°06' W
(95.4')
power lines
Lot 9
CEDAR SWAMP
Begin curve (left)
R = 2914.4'
N 10°13' E
disperses thru swamp
S 18°32' W
culvert
culvert
gravel bottom
trickling down rocks
outlet
Pond #3
Lagoon
149.5'
49.5'
1016.0'
River
2335'
Ashland Water and Sewer District
(9) Book 865, page 83
(7) Book 958, page 226
22.9 ac
Pond #2
Lagoon
Lagoon
Pond #1
1048.8'
Book 156, pages 35-42
Book 164, pages 84 & 85
ostook Railroad Company
k 197, page 303
N 18°32' E
N 71°28' W
150.5'
shed

ATTACHMENT C

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAPTER 530.2(D)(4) CERTIFICATION

MEPDES#_____Facility Name_____

Since the effective date of your permit, have there been;		NO	YES Describe in comments section
1	Increases in the number, types, and flows of industrial, commercial, or domestic discharges to the facility that in the judgment of the Department may cause the receiving water to become toxic?	☐	☐
2	Changes in the condition or operations of the facility that may increase the toxicity of the discharge?	☐	☐
3	Changes in storm water collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge?	☐	☐
4	Increases in the type or volume of hauled wastes accepted by the facility?	☐	☐

COMMENTS:

Name (printed): _____

Signature:_____Date: _____

This document must be signed by the permittee or their legal representative.

This form may be used to meet the requirements of Chapter 530.2(D)(4). This Chapter requires all dischargers having waived or reduced toxic testing to file a statement with the Department describing changes to the waste being contributed to their system as outlined above. As an alternative, the discharger may submit a signed letter containing the same information.

Scheduled Toxicity Testing for the next calendar year

Test Conducted	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
WET Testing	□	□	□	□
Priority Pollutant Testing	□	□	□	□
Analytical Chemistry	□	□	□	□
Other toxic parameters [1]	□	□	□	□

Please place an "X" in each of the boxes that apply to when you will be conducting any one of the three test types during the next calendar year.

[1] This only applies to parameters where testing is required at a rate less frequently than quarterly.

ATTACHMENT D

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

1,1,1-TRICHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,1,2,2-TETRACHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,1,2-TRICHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,1-DICHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,1-DICHLOROETHYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	3.0000	Y
1,2-(O)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
1,2,4-TRICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
1,2-DICHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	3.0000	Y
1,2-DICHLOROPROPANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,2-DIPHENYLHYDRAZINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
1,2-TRANS-DICHLOROETHYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,3-(M)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
1,3-DICHLOROPROPYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
1,4-(P)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
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25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

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Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

1,4-(P)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,4,6-TRICHLOROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,4-DICHLOROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,4-DIMETHYLPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,4-DINITROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,4-DINITROTOLUENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2,6-DINITROTOLUENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2-CHLOROETHYLVINYL ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	10.0000	Y
2-CHLORONAPHTHALENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2-CHLOROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
2-NITROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
3,3'-DICHLOROBENZIDINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
3,4-BENZO(B)FLUORANTHENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
4,4'-DDD	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
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25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

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Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

4,4'-DDD	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
4,4'-DDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
4,4'-DDT	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
4,6-DINITRO-O-CRESOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	24.0000	Y
4-BROMOPHENYLPHENYL ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
4-CHLOROPHENYL PHENYL ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
4-NITROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
A-BHC	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
ACENAPHTHENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
ACENAPHTHYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
ACROLEIN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	10.0000	Y
ACRYLONITRILE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	25.0000	Y
A-ENDOSULFAN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
ALDRIN	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

ALDRIN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
ALUMINUM	**Test date**	**Result (ug/l)**	**Lsthan**
	05/10/2016	60.0000	Y
	08/15/2017	21.5000	N
	04/03/2018	52.0000	N
	02/19/2019	46.0000	N
	07/09/2019	74.8000	N
	12/03/2019	53.2000	N
	02/10/2020	30.4000	N
	03/02/2021	48.8000	N
AMMONIA	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	8,800.0000	N
	02/19/2019	7,300.0000	N
	07/09/2019	1,600.0000	N
	12/03/2019	6,500.0000	N
ANTHRACENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
ANTIMONY	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.2500	N
ARSENIC	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.1000	N
	02/19/2019	3.3000	N
	07/09/2019	2.8000	N
	12/03/2019	3.6000	N
B-BHC	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
B-ENDOSULFAN	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

B-ENDOSULFAN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
BENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
BENZIDINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BENZO(A)ANTHRACENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BENZO(A)PYRENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BENZO(G,H,I)PERYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BENZO(K)FLUORANTHENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BERYLLIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.2000	Y
BIS(2-CHLOROETHOXY)METHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BIS(2-CHLOROETHYL)ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BIS(2-CHLOROISOPROPYL)ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BIS(2-ETHYLHEXYL)PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
BROMOFORM	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
BUTYLBENZYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

BUTYLBENZYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
CADMIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.2000	Y
	02/19/2019	0.2000	Y
	07/09/2019	0.2000	Y
	12/03/2019	0.2000	Y
CARBON TETRACHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
CHLORDANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
CHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
CHLORODIBROMOMETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	3.0000	Y
CHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
CHLOROFORM	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
CHROMIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	1.1200	N
	02/19/2019	1.1000	N
	07/09/2019	1.0000	Y
	12/03/2019	1.0000	Y
CHRYSENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
COPPER	**Test date**	**Result (ug/l)**	**Lsthan**
	05/10/2016	4.7000	N

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

COPPER	**Test date**	**Result (ug/l)**	**Lsthan**
	08/15/2017	1.1000	N
	04/03/2018	10.9000	N
	09/05/2018	1.2900	N
	11/07/2018	3.5200	N
	02/19/2019	8.3500	N
	05/07/2019	1.5500	N
	07/09/2019	2.4200	N
	12/03/2019	4.1400	N
	02/10/2020	5.4400	N
	03/02/2021	4.2800	N
CYANIDE TOTAL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
	02/20/2019	5.0000	Y
	07/09/2019	5.0000	Y
	12/03/2019	5.0000	Y
D-BHC	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
DIBENZO(A,H)ANTHRACENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
DICHLOROBROMOMETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	3.0000	Y
DIELDRIN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
DIETHYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
DIMETHYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

DI-N-BUTYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
DI-N-OCTYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
ENDOSULFAN SULFATE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
ENDRIN	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
ENDRIN ALDEHYDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0200	Y
ETHYLBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
FLUORANTHENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
FLUORENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
G-BHC	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
HEPTACHLOR	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
HEPTACHLOR EPOXIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0100	Y
HEXACHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
HEXACHLOROBUTADIENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
HEXACHLOROCYCLOPENTADIENE	**Test date**	**Result (ug/l)**	**Lsthan**

COMBINED WET AND PRIORITY POLLUTANTS REPORT
Data entered into Toxscan for the period

25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

Showing all data - *(Mercury results are in ng/L)

Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

HEXACHLOROCYCLOPENTADIENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
HEXACHLOROETHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
INDENO(1,2,3-CD)PYRENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
ISOPHORONE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
LEAD	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.2100	N
	02/19/2019	0.2000	Y
	07/09/2019	0.7200	N
	12/03/2019	0.2400	N
MERCURY	**Test date**	**Result (ng/l)**	**Lsthan**
	05/10/2016	1.44	N
	08/15/2017	2.49	N
	03/20/2018	3.54	N
	02/20/2019	5.04	N
	02/10/2020	3.25	N
	03/02/2021	5.08	N
METHYL BROMIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
METHYL CHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
METHYLENE CHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	5.0000	Y
NAPHTHALENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y

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NICKEL	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.9300	N
	02/19/2019	0.8000	N
	07/09/2019	0.8300	N
	12/03/2019	2.0200	N
NITROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
N-NITROSODIMETHYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
N-NITROSODI-N-PROPYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
N-NITROSODIPHENYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	4.7000	Y
PCB-1016	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1221	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1232	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1242	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1248	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1254	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y
PCB-1260	**Test date**	**Result (ug/l)**	**Lsthan**
	04/03/2018	0.0900	Y

COMBINED WET AND PRIORITY POLLUTANTS REPORT
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25/Mar/2016 - 25/Mar/2021

CHEMICAL TEST REPORT

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Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

	Test date	Result (ug/l)	Lsthan
P-CHLORO-M-CRESOL	04/03/2018	4.7000	Y
PENTACHLOROPHENOL	04/03/2018	19.0000	Y
PHENANTHRENE	04/03/2018	4.7000	Y
PHENOL	04/03/2018	4.7000	Y
PYRENE	04/03/2018	4.7000	Y
SELENIUM	04/03/2018	11.1000	N
SILVER	04/03/2018	0.2000	Y
	02/19/2019	0.2000	Y
	07/09/2019	0.2000	Y
	12/03/2019	0.2000	Y
SPECIFIC CONDUCTANCE (UMHOS)	04/03/2018	624.0000	N
TETRACHLOROETHYLENE	04/03/2018	5.0000	Y
THALLIUM	04/03/2018	0.2000	Y
TOLUENE	04/03/2018	5.0000	Y
TOXAPHENE	04/03/2018	0.1900	Y

COMBINED WET AND PRIORITY POLLUTANTS REPORT
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CHEMICAL TEST REPORT

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Facility name: **ASHLAND WATER & SEWER DISTRICT** Permit Number: ME0101087 Effluent Limit: Acute (%) = 0.43 Chronic (%) = 0.38

	Test date	Result (ug/l)	Lsthan
TRICHLOROETHYLENE	04/03/2018	3.0000	Y
VINYL CHLORIDE	04/03/2018	5.0000	Y
ZINC	04/03/2018	11.0000	N
	02/19/2019	9.5000	N
	07/09/2019	4.8000	N
	12/03/2019	6.9000	N

WET TEST REPORT

ASHLAND WATER & SEWER DISTRICT Permit Number: ME0101087

Species	Test	Percent	Sample date	Critical %	Exception
TROUT	A_NOEL	100	04/03/2018	0.431	
TROUT	C_NOEL	100	04/03/2018	0.376	
WATER FLEA	A_NOEL	100	04/03/2018	0.431	
WATER FLEA	C_NOEL	100	04/03/2018	0.376	

ATTACHMENT E

MERCURY REPORT - Clean Test Only

Data Date Range: 01/01/1999-03/25/2021

Inspector Name: SEAN BERNARD

Facility: ASHLAND WATER & SEWER DISTRICT **Permit Number:** ME0101087

Max (ng/l): 32.0000 **Average (ng/l):** 3.5595

Sample Date	Result (ng/l)	Lsthan	Clean
08/24/1999	6.70	N	T
03/24/2000	9.10	N	T
11/27/2000	3.90	N	T
02/07/2001	11.00	N	T
03/05/2002	32.00	N	T
05/16/2002	3.70	N	T
05/30/2002	5.80	N	T
07/17/2002	3.40	N	T
10/17/2002	1.00	Y	T
12/06/2002	2.50	N	T
03/24/2003	10.00	N	T
05/15/2003	3.70	N	T
07/16/2003	1.40	N	T
10/15/2003	1.40	N	T
03/09/2004	0.76		T
06/07/2004	2.20	N	T
09/03/2004	2.10	N	T
11/15/2004	1.50	N	T
02/03/2005	7.30	N	T
05/26/2005	1.40	N	T
08/22/2005	1.80	N	T
11/21/2005	2.70	N	T
02/15/2006	5.50	N	T
05/09/2006	2.10	N	T
09/14/2006	1.40	N	T
11/14/2006	1.60	N	T
02/28/2007	6.00	N	T
05/09/2007	2.50	N	T
07/23/2007	2.40	N	T
10/24/2007	1.10	N	T
03/12/2008	4.80	N	T
06/18/2008	2.20	N	T
09/02/2008	1.60	N	T
11/06/2008	1.50	N	T
02/09/2009	3.10	N	T
05/05/2009	1.50	N	T
08/28/2009	1.90	N	T
11/10/2009	1.50	N	T
01/12/2010	2.60	N	T
04/14/2010	2.50	N	T
07/13/2010	2.20	N	T
11/10/2010	2.10	N	T
02/17/2011	2.10	N	T
05/10/2011	1.50	N	T
08/17/2011	1.70	N	T
11/02/2011	1.70	N	T
02/02/2012	2.20	N	T
08/09/2013	2.20	N	T

05/28/2014	1.70	N	T
10/28/2015	1.45	Y	T
05/10/2016	1.44	N	T
08/15/2017	2.49	N	T
03/20/2018	3.54	N	T
02/20/2019	5.04	N	T
02/10/2020	3.25	N	T