STATE OF MAINE
DEPARTMENT OF
ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE
GOVERNOR

PAUL MERCER
COMMISSIONER

November 2, 2017

Mr. Robert Lento, Superintendent
Mars Hill Utility District
P.O. Box 342
Mars Hill, ME. 04758

Sent via electronic mail
Delivery confirmation requested

RE: *Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0101079*
Maine Waste Discharge License (WDL) Application #W000842-6C-I-R
Proposed Draft MEPDES Permit - Renewal

Dear Mr. Lento:

Attached is a proposed draft MEPDES permit and Maine WDL which the Department proposes to issue for your facility as a final document after opportunity for your review and comment. By transmittal of this letter, you are provided with an opportunity to comment on the proposed draft permit and its special and standard conditions. If it contains errors or does not accurately reflect present or proposed conditions, please respond to this Department so that changes can be considered.

By copy of this letter, the Department is requesting comments on the proposed draft permit from various state and federal agencies and from any other parties who have notified the Department of their interest in this matter.

The comment period begins on November 2, 2017 and ends on December 4, 2017. All comments on the proposed draft permit must be received in the Department of Environmental Protection office on or before the close of business Monday, December 4, 2017. Failure to submit comments in a timely fashion will result in the proposed draft/license permit document being issued as drafted.

Comments in writing should be submitted to my attention at the following address:

Maine Department of Environmental Protection
Bureau of Water Quality
Division of Water Quality Management
17 State House Station
Augusta, ME 04333-0017
Cindy.L.Dionne@maine.gov

If you have any questions regarding the matter, please feel free to contact me.

Sincerely,

Cindy L. Dionne
Division of Water Quality Management
Bureau of Water Quality
ph: 207-557-5950

Enc.

ec: Barry Mower, DEP
Pamela Parker, DEP
Bill Sheehan, DEP
Lori Mitchell, DEP
Fred Corey, Aroostook Band of Micmac Indians
Sean Mahoney, CLF
Environmental Review, DMR
David Webster, USEPA
Olga Vergara, USEPA
Solanch Pastrana-Del Valle, USEPA
Marelyn Vega, USEPA
Richard Carvalho, USEPA
Environmental Review, IFW
Sharri Venno, Houlton Band of Maliseet Indians

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

DEPARTMENT ORDER

IN THE MATTER OF

MARS HILL UTILITY DISTRICT	)	MAINE POLLUTANT DISCHARGE
MARS HILL, AROOSTOOK COUNTY	)	ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS	)	AND
ME0101079	)	WASTE DISCHARGE LICENSE
W000842-6C-I-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, *et seq.*, and applicable rules of the Department of Environmental Protection (Department), the Department has considered the application of the MARS HILL UTILITY DISTRICT (District/permittee), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On May 1, 2017, the Department accepted as complete for processing an application from the permittee for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0101079 / Maine Waste Discharge License (WDL) #W000842-6C-G-R, which was issued by the Department on November 2, 2012 for a five-year term. The 11/2/12 permit authorized the monthly average discharge of up to 1.0 million gallons per day (MGD) of secondary treated wastewater from a publicly owned treatment works (POTW) to Prestile Stream, Class B, in Mars Hill, Maine.

PERMIT SUMMARY

This permitting action is different from the November 2, 2012 permit in that it:

1. Eliminates the waiver for percent removal requirements for biochemical oxygen demand (BOD_5) and total suspended solids (TSS) when influent strength is less than 200 milligrams per liter (mg/L); and

2. Establishes seasonal effluent, and ambient total phosphorus reporting conditions when the permittee is discharging.

CONCLUSIONS

BASED on the findings in the attached and incorporated Fact Sheet dated November 2, 2017, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.

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

3. The provisions of the State's antidegradation policy, *Classification of Maine waters,* 38 M.R.S. §464(4)(F), will be met, in that:

   (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;

   (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;

   (c) Where the standards of classification of the receiving water body are not met, the discharge will not cause or contribute to the failure of the water body to meet the standards of classification;

   (d) Where the actual quality of any classified receiving water body exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and

   (e) Where a discharge will result in lowering the existing water quality of any water body, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.

4. The 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).

ACTION

THEREFORE, the Department APPROVES the above noted application of the MARS HILL UTILITY DISTRICT to discharge a monthly average flow of up to 1.0 million gallons per day of secondary treated wastewater to Prestile Stream, Class B, in Mars Hill, Maine, SUBJECT TO ALL APPLICABLE STANDARDS AND REGULATIONS AND THE FOLLOWING CONDITIONS:

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

2. The attached Special Conditions, including any effluent limitations and monitoring requirements.

3. This permit becomes effective upon the date of signature below and expires at midnight five (5) years after that date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this permit, the terms and conditions of this permit and all subsequent 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 Matter*s, 06-096 C.M.R. 2(21)(A) (amended October 19, 2015).

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS ____ DAY OF _____2017.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:_____
PAUL MERCER, Commissioner

Date of initial receipt of application: May 1, 2017
Date of application acceptance: May 1, 2017

Date filed with Board of Environmental Protection _____

This Order prepared by Cindy L. Dionne, Bureau of Water Quality

SPECIAL CONDITIONS
A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Between the period of **October 1 – November 30 and March 1 – May 31** when the dilution factor associated with the discharge is at least 50:1 or between the period **of June 1 – September 30 and December 1 – February 29** when the dilution factor associated with the discharge is at least 75:1, the permittee is authorized to discharge secondary treated municipal wastewater via **Outfall #001A** to Prestile Stream. Such discharges must be limited and monitored by the permittee as specified below[(1), (2)]:

Effluent Characteristics	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow *[50050]*	1.0 MGD *[03]*	Report MGD *[03]*	Report MGD *[03]*	---	---	---	Continuous *[99/99]*	Recorder *[RC]*
BOD_5 *[00310]*	250 lbs./day *[26]*	375 lbs./day *[26]*	417 lbs./day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	2/Week *[02/07]*	24-Hour Composite *[24]*
BOD_5 Percent Removal[(3)] *[81010]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
TSS *[00530]*	250 lbs./day *[26]*	375 lbs./day *[26]*	417 lbs./day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	2/Week *[02/07]*	24-Hour Composite *[24]*
TSS Percent Removal[(3)] *[81011]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
Settleable Solids *[00545]*	---	---	---	---	---	0.3 ml/L *[25]*	2/Week *[02/07]*	Grab *[GR]*
E. coli* Bacteria[(4)]** *[31633]* ***(May 15 – Sept. 30)	---	---	---	64/100 ml[(5)] *[13]*	---	427/100 ml *[13]*	1/Week *[01/07]*	Grab *[GR]*
Total Residual Chlorine[(6)] *[50060]* ***(May 15 – May 30)***	---	---	---	0.1 mg/L *[19]*	---	0.3 mg/L *[19]*	5/Week *[05/07]*	Grab *[GR]*
(Jun 1 – Sept. 30)	---	---	---	0.83 mg/L *[19]*	---	1.0 mg/L *[19]*	5/Week *[05/07]*	Grab *[GR]*
pH *[00400]*	---	---	---	---	---	6.0 – 9.0 SU *[12]*	5/Week *[05/07]*	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 (DMRs).

Footnotes: See Pages 7 through 11 of this permit for applicable footnotes.

SPECIAL CONDITIONS

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

1. Between the period **of October 1 – November 30 and March 1 – May 31** when the dilution factor associated with the discharge is at least 50:1 or between the period of **June 1 – September 30 and December 1 – February 29** when the dilution factor associated with the discharge is at least 75:1, the permittee is authorized to discharge secondary treated municipal wastewater via **Outfall #001A** to Prestile Stream. Such discharges must be limited and monitored by the permittee as specified below[(1), (2)]:

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Mercury (Total)[(7)] *[71900]*	---	---	---	6.1 ng/L *[3M]*	---	9.1 ng/L *[3M]*	1/Year *[01/YR]*	Grab *[GR]*
Stream Flow[(8)] *[00060]*	Report cfs *[08]*	---	Report cfs *[08]*	---	---	---	Continuous[(7)] *[99/99]*	Recorder *[RC]*
Minimum Dilution Factor *[80093]* ***Oct 1 – Nov 30, Mar 1 – May 31*** ***Jun 1 – Sep 30, Dec 1 – Feb 28***	---	---	50:1 *[1U]* 75:1 *[1U]*	---	---	---	1/Day *[01/01]* 1/Day *[01/01]*	Calculate *[CA]* Calculate *[CA]*

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 (DMRs).

Footnotes: See Pages 7 through 11 of this permit for applicable footnotes.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

2. The permittee is authorized to discharge secondary treated sanitary wastewater from **Outfall #001A** to Prestile Stream in Mars Hill. Such discharges are limited and must be monitored by the permittee as specified below[(1)] **only if the discharger is discharging from June 1 through September 30**:

	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Total Ambient Phosphorus[(9)] *[00665] (June 1- Sept 30, 2018)*	---	---	---	Report mg/L *[19]*	---	Report mg/L *[19]*	2/Month *[02/30]*	Grab *[GR]*
Total Effluent Phosphorus *[00665] (June 1–Sept 30, each year)*	Report lbs./day *[26]*	---	---	Report mg/L *[19]*	---	Report mg/L *[19]*	2/Month *[02/30]*	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 (DMRs).

Footnotes: See Pages 7 through 11 of this permit for applicable footnotes.

SPECIAL CONDITIONS

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

3. Whole effluent toxicity, analytical chemistry and priority pollutant testing requirements.

SURVEILLANCE LEVEL – Beginning upon issuance and lasting until 24 months prior to permit expiration and commencing again 12 months prior to permit expiration and lasting through permit expiration (Years 1,2,3 and 5 of the term of the permit).

	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Whole Effluent Toxicity (10)						
Acute – NOEL						
Ceriodaphnia dubia (Water flea) *[TDA3B]*	---	---	---	Report % *[23]*	1/2 Years *[01/2Y]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TDA6F]*	---	---	---	Report % *[23]*	1/2 Years *[01/2Y]*	Composite *[24]*
Chronic – NOEL						
Ceriodaphnia dubia (Water flea) *[TBP3B]*	---	---	---	Report % *[23]*	1/2 Years *[01/2Y]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TBQ6F]*	---	---	---	Report % *[23]*	1/2 Years *[01/2Y]*	Composite *[24]*
Analytical Chemistry (11,12) *[51168]*	---	---	---	Report µg/L *[28]*	1/2 Years *[01/2Y]*	Composite/Grab *[24]*
Priority Pollutant (12,13) *[50008]*	---	---	---	---	---	---

SCREENING LEVEL - Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4) and every five years thereafter.

	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Whole Effluent Toxicity (10)						
Acute – NOEL						
Ceriodaphnia dubia (Water flea) *[TDA3B]*	---	---	---	Report % *[23]*	2/Year *[02/YR]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TDA6F]*	---	---	---	Report % *[23]*	2/Year *[02/YR]*	Composite *[24]*
Chronic – NOEL						
Ceriodaphnia dubia (Water flea) *[TBP3B]*	---	---	---	Report % *[23]*	2/Year *[02/YR]*	Composite *[24]*
Salvelinus fontinalis (Brook trout) *[TBQ6F]*	---	---	---	Report % *[23]*	2/Year *[02/YR]*	Composite *[24]*
Analytical Chemistry (11,12) *[51168]*	---	---	---	Report µg/L *[28]*	1/Quarter *[01/90]*	Composite/Grab *[24]*
Priority Pollutant (12,13) *[50008]*	---	---	---	Report µg/L *[28]*	1/Year *[01/YR]*	Composite/Grab *[24]*

Footnotes: See Pages 7 through 11 of this permit for applicable footnotes.

SPECIAL CONDITIONS

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

Footnotes:

1. **Sampling** – 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 analyzed by laboratories operated by waste discharge facilities 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 C.M.R. 263 (effective April 1, 2010). Laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of 10-144 CMR 263. 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. **Minimum Dilution Required for Discharge** – The permittee must maintain a minimum dilution factor of 50:1 (between the stream flow and discharge) at all times during the periods October 1st – November 30th and March 1st – May 31th, and a minimum dilution factor of 75:1 at all times during the periods June 1st - September 30th and December 1st – February 28th of each year. Effluent dilution ratios must be calculated by the permittee prior to commencing discharge each day using the following formula:

$$\text{Dilution Ratio} = \frac{[(0.6464)(Q_s) + Q_e]}{Q_e}$$

Where,
Q_s = stream flow in cfs as measured using calibrated equipment; and
Q_e = effluent flow in units of MGD.

3. **Percent removal** – The treatment facility must maintain a minimum of 85 percent removal of both BOD_5 and TSS. Compliance with the limitation is based on a twelve-month rolling average. Calendar monthly average percent removal values must be calculated based on influent and effluent concentrations. The twelve-month rolling average calculation is based on the most recent twelve month period.

4. ***E. coli* bacteria** - *E. coli* bacteria limits and monitoring requirements are seasonal and apply between May 15th and September 30th of each year. In accordance with 38 M.R.S. § 414-A(5), the Department may, at any time and with notice to the permittee, modify this permit to establish bacteria limitations on a year-round basis to protect the health and welfare of the public.

SPECIAL CONDITIONS

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

Footnotes:

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

6. **Total residual chlorine (TRC)** – Limitations and monitoring requirements are applicable whenever elemental chlorine or chlorine based compounds are being used to disinfect the discharge. The permittee must utilize approved test methods that are capable of bracketing the limitations in this permit.

7. **Mercury** – The permittee must conduct all mercury monitoring required by this permit or required to determine compliance with interim limitations established pursuant to 06-096 CMR 519 in accordance with the U.S. Environmental Protection Agency's (USEPA) "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*. See **Attachment A** of this permit for a Department report form for mercury test results. 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. **Stream Flow** – Report the monthly average and minimum daily stream flows recorded for the month. Stream flow in the vicinity of the outfall pipe must be measured on a continuous basis when the facility is discharging and on a 1/Day basis when the facility is not discharging. Annually (at a minimum) the permittee must calibrate or verify that the flow measurement devices (stream and discharge) are accurate.

9. **Total Ambient Phosphorus** – The permittee must conduct ambient phosphorus testing immediately upstream of the discharge point (as reasonably accessible and safety allows).

10. **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 2.0%), which provides a point 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 and reproduction for the water flea, survival and growth for the trout, and fertilization for the sea urchin as the end points. The critical acute and chronic thresholds were derived as the mathematical inverse of the applicable acute and chronic dilution factor of 50:1.

SPECIAL CONDITIONS

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

Footnotes:

a. **Surveillance level testing –** Beginning upon issuance and lasting until 24 months prior to permit expiration and commencing again 12 months prior to permit expiration and lasting through permit expiration (Years 1,2,3 and 5 of the term of the permit), the permittee must initiate surveillance level acute and chronic WET testing at a minimum frequency of once every two years (reduced testing) using the brook trout (*Salvelinus fontinalis*) and the water flea (*Ceriodaphnia dubia*). Tests using the brook trout must be conducted in a different calendar quarter each year, when practicable. Since this is a hold and release operation, collection of samples in each of the four calendar quarters may not be possible.

b. **Screening level testing** – Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4) and every five years thereafter, the permittee must conduct screening level acute and chronic WET testing at a minimum frequency of twice per year using both the water flea and the brook trout. Tests must be conducted with a minimum of 6 months separating test events.

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 2.0 %.

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 salmonids. See **Attachment B** of this permit for the Department protocol.

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 on the "WET Results Report – Fresh Waters" form included as **Attachment C** of this permit each time a WET test is performed. The permittee is required to analyze the effluent for the parameters specified on the "WET and Chemical Specific Data Report Form" included as **Attachment D** of this permit each time a WET test is performed.

SPECIAL CONDITIONS

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

Footnotes:

11. **Analytical chemistry** – Refers to a suite of chemicals in **Attachment D** of this permit.

    a. **Surveillance level testing** – Beginning upon issuance and lasting until 24 months prior to permit expiration and commencing again 12 months prior to permit expiration and lasting through permit expiration (Years 1,2,3 and 5 of the term of the permit), the permittee must conduct analytical chemistry testing at a minimum frequency of once every other year (reduced testing). Tests must be conducted in a different calendar quarter each year, when practicable. Since this is a hold and release operation, collection of samples in each of the four calendar quarters may not be possible.

    b. **Screening level testing** – Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4) and every five years thereafter, the permittee must conduct analytical chemistry testing at a minimum frequency of four times per year for four consecutive calendar quarters, when practicable. Since this is a hold and release operation, collection of samples in each of the four calendar quarters may not be possible.

12. **Priority pollutant testing** – Refers to a suite of chemicals in **Attachment D** of this permit.

    a. **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) and every five years thereafter, the permittee must conduct screening level priority pollutant testing at a minimum frequency of once per year.

13. **Priority pollutant and analytical chemistry testing** – Test results 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.

SPECIAL CONDITIONS

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

Footnotes:

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 (effective October 9, 2005). For the purposes of DMR reporting, enter a "1" for yes, testing done this monitoring period or "NODI-9" monitoring not required this period.

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 for the classification of the receiving waters.

2. The permittee must not discharge effluent that contains materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the uses designated for the classification of the receiving waters.

3. The permittee must not discharge effluent that causes visible discoloration or turbidity in the receiving waters 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 lowers 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 management responsibility over the treatment facility must hold a Maine **Grade II**, Biological Treatment certificate (or higher) or must be a Maine Registered 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.

SPECIAL CONDITIONS

D. 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 May 1, 2017; 2) the terms and conditions of this permit; and 3) only from Outfall #001A. Discharges of wastewater from any other point source 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.

E. 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 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. See **Attachment F** of the Fact Sheet for Department Guidance on conducting an IWS. The IWS must identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging into the publicly-owned treatment works (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).

F. NOTIFICATION REQUIREMENTS

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 into the system at the time of permit issuance.

3. For the purposes of this section, adequate notice must include information on:

   (a) The quality and quantity of wastewater introduced to the wastewater collection and treatment system; and

   (b) Any anticipated impact of the change in the quantity or quality of the wastewater to be discharged from the treatment system.

SPECIAL CONDITIONS

G. OPERATION & 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.

H. WET WEATHER MANAGEMENT PLAN

The treatment facility staff must have a current written Wet Weather 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 (including septic waste and other high strength wastes if applicable) and provide written operating and maintenance procedures during the events.

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.

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SPECIAL CONDITIONS

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 Fact Sheet 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;

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 annual 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. STREAM FLOW MONITORING/DILUTION

When the treatment facility is discharging, the flow in Prestile Stream at the point of discharge must be monitored continuously, and the dilution of the effluent with the receiving water must be calculated daily. Copies of the stream flow monitoring data and the effluent dilution data must be submitted monthly with the Discharge Monitoring Report (DMR). Stream flow monitoring device(s) must be calibrated at least once per year. The permittee must keep copies of the stream flow monitoring data, effluent dilution data, and equipment calibration records on file for a period of at least three years and make these records available to Department or USEPA staff upon request.

SPECIAL CONDITIONS

K. 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 Department 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.

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.

SPECIAL CONDITIONS

K. MONITORING AND REPORTING (cont'd)

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 Park Drive – Skyway Park
Presque Isle, Maine 04769

L. REOPENING OF PERMIT FOR MODIFICATION

In accordance with 38 M.R.S. § 414-A(5) and upon evaluation of the test results required by the 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 limitations 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.

M. SEVERABILITY

In the event that any provision or part thereof, of this permit is declared to be unlawful by a reviewing court, the remainder of the permit 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.

CONTENTS

A. GENERAL PROVISIONS

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

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

(a) They are not

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B. OPERATION AND MAINTENACE OF FACILITIES

1. General facility requirements.

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

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

(b) The permittee shall at all times maintain in good working order and operate at maximum efficiency all waste water collection, treatment and/or control facilities.

(c) All necessary waste treatment facilities will be installed and operational prior to the discharge of any wastewaters.

(d) Final plans and specifications must be submitted to the Department for review prior to the construction or modification of any treatment facilities.

(e) The permittee shall install flow measuring facilities of a design approved by the Department.

(f) The permittee must provide an outfall of a design approved by the Department which is placed in the receiving waters in such a manner that the maximum mixing and dispersion of the wastewaters will be achieved as rapidly as possible.

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

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

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

5. Bypasses.

(a) Definitions.

(i) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

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

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

(c) Notice.

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

(ii) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph D(1)(f), below. (24-hour notice).

(d) Prohibition of bypass.

(i) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:

(A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
(B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
(C) The permittee submitted notices as required under paragraph (c) of this section.

(ii) The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three conditions listed above in paragraph (d)(i) of this section.

6. Upsets.

(a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (c) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(i) An upset occurred and that the permittee can identify the cause(s) of the upset;
(ii) The permitted facility was at the time being properly operated; and
(iii) The permittee submitted notice of the upset as required in paragraph D(1)(f) , below. (24 hour notice).
(iv) The permittee complied with any remedial measures required under paragraph B(4).

(d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

C. MONITORING AND RECORDS

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

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

3. Monitoring and records.

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

(c) Records of monitoring information shall include:

(i) The date, exact place, and time of sampling or measurements;
(ii) The individual(s) who performed the sampling or measurements;
(iii) The date(s) analyses were performed;
(iv) The individual(s) who performed the analyses;
(v) The analytical techniques or methods used; and
(vi) The results of such analyses.

(d) Monitoring results must be conducted according to test procedures approved under 40 CFR part 136, unless other test procedures have been specified in the permit.

(e) State law provides that any person who tampers with or renders inaccurate any monitoring devices or method required by any provision of law, or any order, rule license, permit approval or decision is subject to the penalties set forth in 38 MRSA, §349.

D. REPORTING REQUIREMENTS

1. Reporting requirements.

(a) Planned changes. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:

(i) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or

(ii) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under Section D(4).

(iii) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;

(b) Anticipated noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Transfers. This permit is not transferable to any person except upon application to and approval of the Department pursuant to 38 MRSA, § 344 and Chapters 2 and 522.

(d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(i) Monitoring results must be reported on a Discharge Monitoring Report (DMR) or forms provided or specified by the Department for reporting results of monitoring of sludge use or disposal practices.

(ii) If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Department.

(iii) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Department in the permit.

(e) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(f) Twenty-four hour reporting.

(i) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance

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

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

(A) Any unanticipated bypass which exceeds any effluent limitation in the permit.
(B) Any upset which exceeds any effluent limitation in the permit.
(C) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit to be reported within 24 hours.

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

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

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

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

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

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

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

(i) One hundred micrograms per liter (100 ug/l);
(ii) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;
(iii) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or
(iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

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

(i) Five hundred micrograms per liter (500 ug/l);
(ii) One milligram per liter (1 mg/l) for antimony;
(iii) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Chapter 521 Section 4(g)(7); or
(iv) The level established by the Department in accordance with Chapter 523 Section 5(f).

5. Publicly owned treatment works.

(a) All POTWs must provide adequate notice to the Department of the following:

(i) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA or Chapter 528 if it were directly discharging those pollutants.
(ii) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
(iii) For purposes of this paragraph, adequate notice shall include information on (A) the quality and quantity of effluent introduced into the POTW, and (B) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(b) When the effluent discharged by a POTW for a period of three consecutive months exceeds 80 percent of the permitted flow, the permittee shall submit to the Department a projection of loadings up to the time when the design capacity of the treatment facility will be reached, and a program for maintaining satisfactory treatment levels consistent with approved water quality management plans.

E. OTHER REQUIREMENTS

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

(a) For municipal sources. During power failure, all wastewaters which are normally treated shall receive a minimum of primary treatment and disinfection. Unless otherwise approved, alternate power supplies shall be provided for pumping stations and treatment facilities. Alternate power supplies shall be on-site generating units or an outside power source which is separate and independent from sources used for normal operation of the wastewater facilities.

(b) For industrial and commercial sources. The permittee shall either maintain an alternative power source sufficient to operate the wastewater pumping and treatment facilities or halt, reduce or otherwise control production and or all discharges upon reduction or loss of power to the wastewater pumping or treatment facilities.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Maximum daily discharge limitation means the highest allowable daily discharge.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ATTACHMENT A

MERCURY REPORT - Clean Test Only

Data Date Range: 10/06/1990-10/06/2017

Inspector Name: WILLIAM SHEEHAN

Facility: MARS HILL UTILITIES DISTRICT **Permit Number:** ME0101079

Max (ng/l): 6.7000 **Average (ng/l):** 2.8143

Sample Date	Result (ng/l)	Lsthan	Clean
10/30/1998	6.21	N	T
12/01/1999	1.90	N	T
03/14/2000	4.20	N	T
04/19/2000	3.50	N	T
12/27/2000	2.70	N	T
02/13/2001	5.00	N	T
04/23/2001	5.70	N	T
01/28/2002	2.00	N	T
04/23/2002	2.10	N	T
12/18/2002	2.40	N	T
03/26/2003	3.90	N	T
05/13/2003	2.20	N	T
11/19/2003	1.60	N	T
03/29/2004	4.50	N	T
04/29/2004	6.70	N	T
12/06/2004	1.50	N	T
04/19/2005	3.80	N	T
10/18/2005	1.80	N	T
03/01/2006	2.80	N	T
04/20/2006	2.30	N	T
11/06/2006	1.90	N	T
02/26/2007	4.60	N	T
04/10/2007	4.60	N	T
11/13/2007	1.60	N	T
03/26/2008	3.20	N	T
10/30/2008	1.40	N	T
03/09/2009	2.40	N	T
04/21/2009	2.00	N	T
12/16/2009	2.40	N	T
04/13/2010	1.70	N	T
11/01/2010	1.60	N	T
02/07/2011	2.20	N	T
04/04/2011	2.60	N	T
07/06/2011	1.50	N	T
11/01/2011	1.30	N	T
02/13/2012	2.80	N	T
11/07/2012	1.60	N	T
10/01/2013	1.60	N	T
04/28/2014	2.40	N	T
03/24/2015	2.78	N	T
03/24/2016	2.87	N	T
04/04/2017	2.34	N	T

Maine Department of Environmental Protection

Effluent Mercury Test Report

Name of Facility: _____ Federal Permit # ME _____

Purpose of this test:
- ☐ Initial limit determination
- ☐ Compliance monitoring for: year _____ calendar quarter _____
- ☐ Supplemental or extra test

SAMPLE COLLECTION INFORMATION

Sampling Date: ___ ___ _____ (mm dd yy) Sampling time: _____ AM/PM

Sampling Location:

Weather Conditions: _____

Please describe any unusual conditions with the influent or at the facility during or preceding the time of sample collection:

Optional test - not required but recommended where possible to allow for the most meaningful evaluation of mercury results:

Suspended Solids _____ mg/L Sample type: _____ Grab (recommended) or _____ Composite

ANALYTICAL RESULT FOR EFFLUENT MERCURY

Name of Laboratory: _____

Date of analysis: _____ **Result:** _____ **ng/L (PPT)**

Please Enter Effluent Limits for your facility

Effluent Limits: **Average =** _____ ng/L **Maximum =** _____ ng/L

Please attach any remarks or comments from the laboratory that may have a bearing on the results or their interpretation. If duplicate samples were taken at the same time please report the average.

CERTIFICATION

I certifiy that to the best of my knowledge the foregoing information is correct and representative of conditions at the time of sample collection. The sample for mercury was collected and analyzed using EPA Methods 1669 (clean sampling) and 1631 (trace level analysis) in accordance with instructions from the DEP.

By: _____ Date: _____

Title: _____

PLEASE MAIL THIS FORM TO YOUR ASSIGNED INSPECTOR

ATTACHMENT B

Salmonid Survival and Growth Test

The Salmonid survival and growth test must follow the procedures for the fathead minnow larval survival and growth tests detailed in USEPA's freshwater acute and chronic methods manuals with the following Department modifications:

Species - Brook Trout, *Salvelinus fontinalis*, or other salmonid approved by the Department.

Age - Less than six months old for the first test each year and less than twelve months for subsequent tests.

Size - The largest fish must not be greater than 150% of the smallest.

Loading Rate - < 0.5 g/l/day

Feeding rate - 5% of body weight 3 times daily (15%/day)

Temperature - 12° ± 1°C

Dissolved Oxygen - 6.5 mg/l ,aeration if needed with large bubbles (> 1 mm diameter) at a rate of <100/min

Dilution Water - Receiving water upstream of discharge (or other ambient water approved by the Department)

Dilution Series - A minimum of 5 effluent concentrations (including the instream waste concentrations bracketing acute and chronic dilutions calculated pursuant to Section D); a receiving water control; and control of known suitable water quality

Duration - Acute = 48 hours
- Chronic = 10 days minimum

Test acceptability - Acute = minimum of 90% survival in 2 days
Chronic = minimum of 80% survival in 10 days; minimum growth of 20 mg/gm/d dry weight in controls, (individual fish weighed, dried at 100°C to constant weight and weighed to 3 significant figures)

ATTACHMENT C

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
WHOLE EFFLUENT TOXICITY REPORT
FRESH WATERS

Facility Name _____ MEPDES Permit # _____

Pipe # _____

Facility Representative _____ Signature _____

By signing this form, I attest that to the best of my knowledge that the information provided is true, accurate, and complete.

Facility Telephone # _____ Date Collected _____ Date Tested _____

mm/dd/yy mm/dd/yy

Chlorinated? _____ Dechlorinated? _____

Results	**% effluent**	
	trout	**water flea**
A-NOEL		
C-NOEL		

Effluent Limitations	
A-NOEL	
C-NOEL	

Data summary	**water flea**			**trout**		
		% survival	**no. young**	**% survival**		**final weight (mg)**
QC standard	**A>90**	**C>80**	**>15/female**	**A>90**	**C>80**	**> 2% increase**
lab control						
receiving water control						
conc. 1 (%)						
conc. 2 (%)						
conc. 3 (%)						
conc. 4 (%)						
conc. 5 (%)						
conc. 6 (%)						
stat test used						

place * next to values statistically different from controls

for trout show final wt and % incr for both controls

Reference toxicant	water flea		trout	
	A-NOEL	C-NOEL	A-NOEL	C-NOEL
toxicant/date				
limits (mg/L)				
results (mg/L)				

Comments _____

Laboratory conducting test

Company Name _____ Company Rep. Name (Printed) _____

Mailing Address _____ Company Rep. Signature _____

City, State, ZIP _____ Company Telephone # _____

Report WET chemistry on DEP Form "ToxSheet (Fresh Water Version), March 2007."

ATTACHMENT D

Maine Department of Environmental Protection
WET and Chem
This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.

Facility Name _____ **MEPDES #** _____ Facility Representative Signature _____
Pipe # _____ To the best of my knowledge this information is true, accurate and complete.

Licensed Flow (MGD)		**Flow for Day (MGD)[1]**	**Flow Avg. for Month (MGD)[2]**
Acute dilution factor			
Chronic dilution factor		**Date Sample Collected**	**Date Sample Analyzed**
Human health dilution factor			
Criteria type: M(arine) or F(resh)	f		

Laboratory _____ Telephone _____
Address _____
_____
Lab Contact _____ Lab ID # _____

Last Revision - July 1, 2015

ERROR WARNING ! Essential facility information is missing. Please check required entries in bold above.

FRESH WATER VERSION

Please see the footnotes on the last page.

			Effluent Limits, %			Receiving Water or Ambient	**Effluent Concentration (ug/L or as noted)**		**Possible Exceedence [7]**		
			Acute	Chronic			WET Result, % Do not enter % sign	Reporting Limit Check	Acute	Chronic	
	WHOLE EFFLUENT TOXICITY										
	Trout - Acute										
	Trout - Chronic										
	Water Flea - Acute										
	Water Flea - Chronic										
	WET CHEMISTRY										
	pH (S.U.) (9)										
	Total Organic Carbon (mg/L)					(8)					
	Total Solids (mg/L)										
	Total Suspended Solids (mg/L)										
	Alkalinity (mg/L)					(8)					
	Specific Conductance (umhos)										
	Total Hardness (mg/L)					(8)					
	Total Magnesium (mg/L)					(8)					
	Total Calcium (mg/L)					(8)					
	ANALYTICAL CHEMISTRY [3]										
	Also do these tests on the effluent with WET. Testing on the receiving water is optional	Reporting Limit	Effluent Limits, ug/L Acute[6]	Chronic[6]	Health[6]			Reporting Limit Check	**Possible Exceedence [7]** Acute	Chronic	Health
	TOTAL RESIDUAL CHLORINE (mg/L) (9)	0.05				NA					
	AMMONIA	NA				(8)					
M	ALUMINUM	NA				(8)					
M	ARSENIC	5				(8)					
M	CADMIUM	1				(8)					
M	CHROMIUM	10				(8)					
M	COPPER	3				(8)					
M	CYANIDE, TOTAL	5				(8)					
	CYANIDE, AVAILABLE [3a]	5				(8)					
M	LEAD	3				(8)					
M	NICKEL	5				(8)					
M	SILVER	1				(8)					
M	ZINC	5				(8)					

Maine Department of Environmental Protection
WET and Chem
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	PRIORITY POLLUTANTS [4]										
			Effluent Limits					Reporting Limit Check	**Possible Exceedence** [7]		
		Reporting Limit	Acute[6]	Chronic[6]	Health[6]				Acute	Chronic	Health
M	ANTIMONY	5									
M	BERYLLIUM	2									
M	MERCURY (5)	0.2									
M	SELENIUM	5									
M	THALLIUM	4									
A	2,4,6-TRICHLOROPHENOL	5									
A	2,4-DICHLOROPHENOL	5									
A	2,4-DIMETHYLPHENOL	5									
A	2,4-DINITROPHENOL	45									
A	2-CHLOROPHENOL	5									
A	2-NITROPHENOL	5									
A	4,6 DINITRO-O-CRESOL (2-Methyl-4,6-dinitrophenol)	25									
A	4-NITROPHENOL	20									
A	P-CHLORO-M-CRESOL (3-methyl-4-chlorophenol)+B80	5									
A	PENTACHLOROPHENOL	20									
A	PHENOL	5									
BN	1,2,4-TRICHLOROBENZENE	5									
BN	1,2-(O)DICHLOROBENZENE	5									
BN	1,2-DIPHENYLHYDRAZINE	20									
BN	1,3-(M)DICHLOROBENZENE	5									
BN	1,4-(P)DICHLOROBENZENE	5									
BN	2,4-DINITROTOLUENE	6									
BN	2,6-DINITROTOLUENE	5									
BN	2-CHLORONAPHTHALENE	5									
BN	3,3'-DICHLOROBENZIDINE	16.5									
BN	3,4-BENZO(B)FLUORANTHENE	5									
BN	4-BROMOPHENYLPHENYL ETHER	5									
BN	4-CHLOROPHENYL PHENYL ETHER	5									
BN	ACENAPHTHENE	5									
BN	ACENAPHTHYLENE	5									
BN	ANTHRACENE	5									
BN	BENZIDINE	45									
BN	BENZO(A)ANTHRACENE	8									
BN	BENZO(A)PYRENE	5									
BN	BENZO(G,H,I)PERYLENE	5									
BN	BENZO(K)FLUORANTHENE	5									
BN	BIS(2-CHLOROETHOXY)METHANE	5									
BN	BIS(2-CHLOROETHYL)ETHER	6									
BN	BIS(2-CHLOROISOPROPYL)ETHER	6									
BN	BIS(2-ETHYLHEXYL)PHTHALATE	10									
BN	BUTYLBENZYL PHTHALATE	5									
BN	CHRYSENE	5									
BN	DI-N-BUTYL PHTHALATE	5									
BN	DI-N-OCTYL PHTHALATE	5									
BN	DIBENZO(A,H)ANTHRACENE	5									
BN	DIETHYL PHTHALATE	5									
BN	DIMETHYL PHTHALATE	5									
BN	FLUORANTHENE	5									

Maine Department of Environmental Protection
WET and Chem
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BN	FLUORENE	5									
BN	HEXACHLOROBENZENE	5									
BN	HEXACHLOROBUTADIENE	5									
BN	HEXACHLOROCYCLOPENTADIENE	10									
BN	HEXACHLOROETHANE	5									
BN	INDENO(1,2,3-CD)PYRENE	5									
BN	ISOPHORONE	5									
BN	N-NITROSODI-N-PROPYLAMINE	10									
BN	N-NITROSODIMETHYLAMINE	5									
BN	N-NITROSODIPHENYLAMINE	5									
BN	NAPHTHALENE	5									
BN	NITROBENZENE	5									
BN	PHENANTHRENE	5									
BN	PYRENE	5									
P	4,4'-DDD	0.05									
P	4,4'-DDE	0.05									
P	4,4'-DDT	0.05									
P	A-BHC	0.2									
P	A-ENDOSULFAN	0.05									
P	ALDRIN	0.15									
P	B-BHC	0.05									
P	B-ENDOSULFAN	0.05									
P	CHLORDANE	0.1									
P	D-BHC	0.05									
P	DIELDRIN	0.05									
P	ENDOSULFAN SULFATE	0.1									
P	ENDRIN	0.05									
P	ENDRIN ALDEHYDE	0.05									
P	G-BHC	0.15									
P	HEPTACHLOR	0.15									
P	HEPTACHLOR EPOXIDE	0.1									
P	PCB-1016	0.3									
P	PCB-1221	0.3									
P	PCB-1232	0.3									
P	PCB-1242	0.3									
P	PCB-1248	0.3									
P	PCB-1254	0.3									
P	PCB-1260	0.2									
P	TOXAPHENE	1									
V	1,1,1-TRICHLOROETHANE	5									
V	1,1,2,2-TETRACHLOROETHANE	7									
V	1,1,2-TRICHLOROETHANE	5									
V	1,1-DICHLOROETHANE	5									
V	1,1-DICHLOROETHYLENE (1,1-dichloroethene)	3									
V	1,2-DICHLOROETHANE	3									
V	1,2-DICHLOROPROPANE	6									
V	1,2-TRANS-DICHLOROETHYLENE (1,2-trans-dichloroethene)	5									
V	1,3-DICHLOROPROPYLENE (1,3-dichloropropene)	5									
V	2-CHLOROETHYLVINYL ETHER	20									
V	ACROLEIN	NA									
V	ACRYLONITRILE	NA									
V	BENZENE	5									

Maine Department of Environmental Protection
WET and Chem
This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.

V	BROMOFORM	5									
V	CARBON TETRACHLORIDE	5									
V	CHLOROBENZENE	6									
V	CHLORODIBROMOMETHANE	3									
V	CHLOROETHANE	5									
V	CHLOROFORM	5									
V	DICHLOROBROMOMETHANE	3									
V	ETHYLBENZENE	10									
V	METHYL BROMIDE (Bromomethane)	5									
V	METHYL CHLORIDE (Chloromethane)	5									
V	METHYLENE CHLORIDE	5									
V	TETRACHLOROETHYLENE (Perchloroethylene or Tetrachloroethene)	5									
V	TOLUENE	5									
V	TRICHLOROETHYLENE (Trichloroethene)	3									
V	VINYL CHLORIDE	5									

Notes:

(1) Flow average for day pertains to WET/PP composite sample day.

(2) Flow average for month is for month in which WET/PP sample was taken.

(3) Analytical chemistry parameters must be done as part of the WET test chemistry.

(3a) Cyanide, Available (Cyanide Amenable to Chlorination) is not an analytical chemistry parameter, but may be required by certain discharge permits .

(4) Priority Pollutants should be reported in micrograms per liter (ug/L).

(5) Mercury is often reported in nanograms per liter (ng/L) by the contract laboratory, so be sure to convert to micrograms per liter on this spreadsheet.

(6) Effluent Limits are calculated based on dilution factor, background allocation (10%) and water quality reserves (15% - to allow for new or changed discharges or non-point sources).

(7) Possible Exceedence determinations are done for a single sample only on a mass basis using the actual pounds discharged. This analysis does not consider watershed wide allocations for fresh water discharges.

(8) These tests are optional for the receiving water. However, where possible samples of the receiving water should be preserved and saved for the duration of the WET test. In the event of questions about the receiving water's possible effect on the WET results, chemistry tests should then be conducted.

(9) pH and Total Residual Chlorine must be conducted at the time of sample collection. Tests for Total Residual Chlorine need be conducted only when an effluent has been chlorinated or residual chlorine is believed to be present for any other reason.

Comments:

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
MAINE WASTE DISCHARGE LICENSE

Proposed Draft FACT SHEET

DATE: **November 2, 2017**

PERMIT NUMBER: **ME0101079**

WASTE DISCHARGE LICENSE: **W000842-6C-I-R**

NAME AND ADDRESS OF APPLICANT:

MARS HILL UTILITY DISTRICT
P.O BOX 342
MARS HILL, MAINE 04758

COUNTY: **AROOSTOOK**

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

70 MILL STREET
MARS HILL, MAINE 04758

RECEIVING WATER/CLASSIFICATION: **PRESTILE STREAM/CLASS B**

COGNIZANT OFFICIAL AND TELEPHONE NUMBER:

MR. ROBERT LENTO, SUPERINTENDENT
(207) 425-2620
Utility.district@ainop.com

1. APPLICATION SUMMARY

a. Application: On May 1, 2017, the Department of Environmental Protection (Department) accepted as complete for processing an application from the Mars Hill Utility District (District/permittee) for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit #ME0101079 / Maine Waste Discharge License (WDL) #W000842-6C-G-R, which was issued by the Department on November 2, 2012 for a five-year term. The 11/2/12 permit authorized the monthly average discharge of up to 1.0 million gallons per day (MGD) of secondary treated wastewater from a publicly owned treatment works (POTW) to Prestile Stream, Class B, in Mars Hill, Maine.

2. PERMIT SUMMARY

a. Terms and conditions: This permitting action is different from the October 6, 2011 permit in that it:

1. Eliminates the waiver for percent removal requirements for biochemical oxygen demand (BOD_5) and total suspended solids (TSS) when influent strength is less than 200 milligrams per liter (mg/L); and

2. Establishes seasonal effluent, and ambient total phosphorus reporting conditions when the permittee is discharging.

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

April 30, 1992 – The Department issued *Site Location of Development, Natural Resource Protection Water Quality Certification Findings of Fact Order #L-17896-29-A-N* for the construction of the wastewater treatment facility.

November 1993 – The District commenced operation of a new secondary wastewater treatment facility.

May 25, 2000 – 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 a *Notice of Interim Limits for the Discharge of Mercury* to the permittee thereby administratively modifying WDL #W000842-5L-C-R by establishing interim monthly average and daily maximum effluent concentration limits of 6.1 parts per trillion (ppt.) and 9.1 ppt., respectively, and a minimum monitoring frequency requirement of 4 tests per year for mercury.

September 25, 2000 – The U.S. Environmental Protection Agency (USEPA) issued a renewal of National Pollutant Discharge Elimination System (NPDES) permit #ME0101079 to the District. The 9/25/00 permit superseded the NPDES permit issued to the District by the USEPA on September 28, 1995 (earliest NPDES permit on file with the Department).

January 12, 2001 - The Department received authorization from USEPA to administer the NPDES program in Maine. From that point forward, the program has been referred to as the MEPDES Program and MEPDES permit number ME0101079 was established as the primary reference number for the facility.

2. PERMIT SUMMARY (cont'd)

December 10, 2002 – The Department issued WDL Modification/Renewal #W000842-5L-E-M / MEPDES permit #ME0101079 to the District for a five-year term. The 12/10/02 permit superseded WDL #W000842-5L-C-R issued on November 24, 1999, and WDL #W000842-46-C-R issued on May 29, 1991 (earliest Order on file with the Department with secondary treatment limitations).

September 10, 2003 – The Department administratively modified the 12/10/02 permit by revising Special Condition A, Footnote #7 to require continuous stream flow monitoring only when the facility was discharging. During periods when the facility was not discharging, the 9/10/03 administrative modification required the facility to monitor stream flow on a daily basis.

April 10, 2006 – The Department amended the 12/10/02 permit to incorporate testing requirements of 06-096 CMR Chapter 530, *Surface Water Toxics Control Program*.

October 22, 2007 – The Department issued MEPDES permit #ME0101079/WDL #W000842-5L-F-R for a five-year term.

February 12, 2008 – The Department issued minor revision #ME0101079/WDL #W000842-5L-F-R to correct an error in the footnotes from the 10/22/07 permit.

February 6, 2012 – The Department issued a minor revision of the 10/22/07 permit that reduced the monitoring frequency for mercury from 4/Year to 1/Year.

November 2, 2012 – The Department issued MEPDES permit #ME0101079/WDL #W000842-6C-G-R for a five-year term.

May 1, 2017 – The permittee submitted a timely and complete General Application to the Department for renewal of the 11/2/12 permit (including subsequent minor permit revisions and permit modifications). The application was accepted for processing on the same day and was assigned WDL #W000842-6C-I-R / MEPDES #ME0101079.

c. Source Description: The wastewater treatment facility receives sanitary wastewater flows generated by approximately 1,200 commercial and residential users within the District's boundaries. The collection system is a separated system approximately 5.5 miles in length with two pump stations and no combined sewer overflow (CSO) points. The two pump stations in the collection system are equipped with a back-up power source. One station has an on-site generator while the other is served by a portable generator. It is noted that a bypass structure at the Pleasant Street pump station identified in Part I.D. of the 9/25/00 NPDES permit renewal has been permanently blocked off and is no longer capable of discharging. The permittee has indicated that no industry contributes more than 10% of the volume of wastewater received by the treatment facility.

2. PERMIT SUMMARY (cont'd)

In December of 1998, the District installed a limestone contactor corrosion control system for the drinking water supply in an effort to reduce copper and lead concentrations in wastewater being conveyed to the wastewater treatment facility. The treatment facility is not authorized to accept septage from local septage haulers.

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

d. Wastewater Treatment: The facility provides a secondary level of treatment via four lagoons, three aerated lagoons and one storage lagoon. The storage lagoon has a capacity of 32 million gallons. Each of the four lagoons has a high density polyethylene synthetic liner. Major components of the treatment system include a bar screen, a grit chamber, four lagoons operated in series totaling 10.7 acres in area with fine-bubbled diffused aeration in three of the four lagoons. The facility is equipped with a diesel-powered generator that enables the facility to continue to provide a secondary level of treatment in the event of a power failure. The treated effluent can be disinfected with sodium hypochlorite and discharged to Prestile Stream via a ductile iron pipe measuring 8-inches in diameter that extends out into the thread of the stream. The outfall does not have a diffuser on the end of it as rapid and completely mixing of the effluent with the receiving water is achieved without a diffuser. The facility has the necessary equipment to provide for de-chlorination with sodium bisulfite if necessary. It is noted it is the District's normal practice (not prohibited by this permit or the previous permitting action) is not to discharge between May 15th and September 30th of each year to avoid the potential of adversely impacting ambient water quality during the summer months when receiving waters are most at risk.

The District stated that they have the equipment in-place to operate, maintain and verify that a pre-determined fixed dilution factor is achieved at all times. That equipment includes a magnetic flow meter on the effluent discharged that is accurate to 1 gallon per minute (gpm) and calibrated annually, a Check Well Water Level Monitor (stream gauge) to determine the flow in Prestile Stream at all times that is calibrated annually, a supervisory control and data acquisition (SCADA) computer system that automatically adjusts the discharge flow based on the stream flow and has the U.S. Geological Survey verify the stream flow and provide the District with an annual rating curve for the stream

A process flow diagram of the facility and the receiving water 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 C.M.R. 530 (effective March 21, 2012), require the regulation of toxic substances so as not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants,* 06-096 C.M.R. 584 (effective July 29, 2012), and 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)(F)(1) classifies Prestile Stream at the point of discharge as Class B waters. *Standards for classification of fresh surface waters,* 38 M.R.S. § 465(3) describes the standards for Class B waters.

5. RECEIVING WATER QUALITY CONDITIONS

The State of Maine 2014 Integrated Water Quality Monitoring and Assessment Report (Report), prepared by the Department pursuant to Sections 303(d) and 305(b) of the Federal Water Pollution Control Act, lists Prestile Stream from the Route 1A dam in Mars Hill to the international border (Assessment Unit ID ME0101000501_150R01) as, "Category 3: Rivers and Streams with Insufficient Data or Information to Determine if Designated Uses are Attained (One or More Uses may be Impaired)" with the comment in the report stating: "New AU in 2014 cycle; split out from ME0101000501_501_150R, formerly called 'Prestile Str and tributaries entering below dam in Mars Hill'. Split was necessary because new 2012 Category 3 Aquatic Life use listing in ME0101000501_150R only applied to mainstem Prestile Stream, not tributaries."

The report also lists this segment under "Category 5-D: Rivers and Streams Impaired by Legacy Pollutants" for dichlorodiphenyltrichloroethane (DDT).

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 (TMDL Completed) due to USEPA approval of a Regional Mercury TMDL." Maine has a fish consumption advisory for fish taken from all freshwaters due to mercury. Many fish from any given waters 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.

5. RECEIVING WATER QUALITY CONDITIONS (cont'd)

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 & MONITORING REQUIREMENTS

a. Flow: The previous permitting action established, and this permit is carrying forward, a monthly average flow limitation of 1.0 MGD which is considered representative of the volume of discharge necessary to comply with the annual discharge restrictions in this permitting action. This permitting action is also carrying forward the previously established weekly average and daily maximum discharge flow monitoring and reporting requirements to assist in compliance evaluations.

A summary of the discharge flow data as reported on the monthly Discharge Monitoring Reports (DMRs) for the period of December 1, 2012 – July 31, 2017 (months when facility reported no discharge are not included) is as follows:

Flow (DMRs = 26)

Value	Limit (MGD)	Range (MGD)	Mean (MGD)
Monthly Average	1.0	0.1 – 0.90	0.6
Weekly Average	Report	0.1 – 0.94	0.7
Daily Maximum	Report	0.13 – 0.99	0.8

b. Dilution Factors: With regard to the derivation of dilution factors associated with the discharge from the District, Section 6(b) of the Fact Sheet associated with the previous permitting action stated,

> *…the Department conducted an up-to-date statistical evaluation of the most current 60 months of WET and chemical specific test results to determine if the discharge over said period exceeded or had a reasonable potential to exceed AWQC. The October 4, 2002, statistical evaluation indicates that with a dilution threshold as low as 50:1, the discharge does not exceed or have a reasonable potential to exceed AWQC for any of the chemical specific elements/compounds or WET species tested to date. Therefore, this permitting action is seasonally reducing the dilution factor threshold that must be maintained at all times when discharging from 114:1 to 50:1. The MHUD has agreed to the threshold of 50:1.*

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

> *The MHUD has indicated that though they have not been discharging to Prestile Stream between May 15th – September 30th they would like to retain the option to do so. To provide for a margin of safety during the time of year when receiving water quality is most at risk (summer) and when flows in the river may be less than accurate due to icing on the river (winter), the Department has multiplied the spring and fall dilution factor threshold of 50:1 by a factor of 1.5 (arbitrary) to establish a summer time dilution factor threshold of 75:1.*

In summary, the annual discharge restrictions and applicable acute, chronic and harmonic mean dilution factors being carried forward in this permitting action are as follows:

December 1st through February 28 – Maintain dilution factor of 75:1.

March 1st through May 31st – Maintain a dilution factor of 50:1.

June 1st through September 30th – Maintain a dilution factor of 75:1.

October 1st through November 30th - Maintain a dilution factor of 50:1.

Surface Waters Toxics Control Program 06-096 C.M.R. ch. 530 §4(A) states,

> *With a non-continuous discharge (such as a lagoon which can be impounded or a continuous discharge prohibited from discharging under specified conditions), the dilution factors can be based on a guaranteed minimum stream flow or tidal stage below which a discharge will not occur. The discharger must submit a request for a license modification that reflects a different minimum stream flow. If the Department approves an alternate stream flow, the license must include a monitoring and reporting requirement, and must include an accurate means of measuring stream flow that is calibrated annually.*

The permittee has guaranteed a minimum dilution factor of 50:1 associated with the discharge based on the stream flow and controlled effluent discharge. Therefore, this permitting action is utilizing acute and chronic dilution factors of 50:1 for purposes of calculating water quality-based thresholds. The Department is making a best professional judgment that this manner of establishing applicable dilution factors for this facility is consistent with the provisions of 06-096 C.M.R. ch. 530.

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

c. Biochemical Oxygen Demand (BOD_5) and Total Suspended Solids (TSS): Previous permitting action established, and this permitting action is carrying forward, monthly average and weekly average BOD_5 and TSS concentration limits of 30 milligrams per liter (mg/L) and 45 mg/L, respectively, which were based on secondary treatment requirements pursuant to 40 CFR 133.102 and *Effluent Guidelines and Standards*,06-096 CMR 525(3)(III). Previous permitting action also established, and this permitting action is carrying forward, daily maximum BOD_5 and TSS concentration limits of 50 mg/L based on a Department best professional judgment (BPJ) of BPT for secondary treated wastewater. All three concentration limitations are being carried forward in this permitting action. The technology-based monthly average, weekly average and daily maximum mass limits of 250 lbs./day, 375 lbs./day, and 417 lbs./day established in the previous permitting action for BOD_5 and TSS are also being carried forward in this permitting action and were derived as follows:

Monthly Average Mass Limit: (30 mg/L)(8.34 lbs./gallon)(1.0 MGD) = 250 lbs./day
Weekly Average Mass Limit: (45 mg/L)(8.34 lbs./day)(1.0 MGD) = 375 lbs./day
Daily Maximum Mass Limit: (50 mg/L)(8.34 lbs./day)(1.0 MGD) = 417 lbs./day

This permitting action is carrying forward a minimum monitoring frequency requirement of twice per week for BOD_5 and TSS based on Department guidance.

This permitting action is also carrying forward the requirement for a minimum of 85% removal of BOD_5 & TSS pursuant to 06-096 CMR 525(3)(III)(a)(3) and (b)(3). The permittee has not demonstrated that it qualifies for special considerations pursuant to 06-096 CMR 525(3)(IV) to maintain a waiver from the 85% removal requirement when influent concentration is less than 200 mg/L, which was carried forward in the previous permit. Therefore, this permitting action is eliminating the waiver from the 85% removal requirement provided in the previous permitting action when influent concentration is less than 200 mg/L. It is noted that compliance with the limitation will be based on a twelve-month rolling average.

A summary of the BOD_5 and TSS data as reported on the monthly DMRs for the period of December 1, 2012 – July 31, 2017 (months when facility reported no discharge are not included) is as follows:

BOD mass (DMRs = 26)

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	250	6.4 - 110	56
Weekly Average	375	6 - 128	74
Daily Maximum	417	7 - 192	83

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

BOD concentration (DMRs = 26)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	4.4 – 21	12
Weekly Average	45	5.6 - 26	15
Daily Maximum	50	6 - 27	16

TSS mass (DMRs = 26)

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	250	8 - 231	55
Weekly Average	375	10 - 246	69
Daily Maximum	417	9.7 - 290	81

TSS concentration (DMRs = 26)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	45	3 - 24	11
Weekly Average	60	4 - 30	13
Daily Maximum	65	4 - 31	15

d. Settleable Solids: The previous permitting established, and this permitting action carrying forward, a daily maximum concentration limit of 0.3 ml/L, which is considered a best practicable treatment limitation (BPT) for secondary treated wastewater.

A summary of effluent settleable solids data as reported on the monthly DMRs for the period of December 1, 2012 – July 31, 2017 (discharging months only, DMRs = 26) indicates the daily maximum settleable solids concentration discharge has been ≤0.3 ml/L 100% of the time.

Based on the compliance record above, this permitting action is reducing the minimum monitoring frequency requirement to two times per week for settleable solids to be consistent with the monitoring frequencies for BOD_5 & TSS.

e. *Escherichia coli* bacteria: The previous permitting action established, and this permitting action carrying forward, seasonal (May 15-September 30 of each year) monthly average and daily maximum *E. coli* bacteria concentration limits of 64 colonies/100 ml and 427 colonies/100 ml, respectively, based on the State's Water Classification Program criteria for Class B waters. Subsequent to issuance of the previous permit, Maine's Legislature approved a new daily maximum water quality standards of 236 colonies/100 ml for water bodies designated as Class B and Class C. The Department has determined that end-of-pipe limitations for the instantaneous concentration standard of 427 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 as is the case with the permittee.

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

A summary of seasonal monthly DMR for the period of December 1, 2012 – July 31, 2017 (months when facility reported no discharge are not included) is as follows:

***E. coli* bacteria (2 DMRs)**

Value	Limit (col/100 ml)	Range (col/100 ml)	Mean (col/100 ml)
Monthly Average	64	8 - 9	9
Daily Maximum	427	65 – 549	307

This permitting action is carrying forward a minimum monitoring frequency requirement of once per week for *E. coli* bacteria based on best professional judgment.

f. Total Residual Chlorine (TRC): The previous permitting action established separate limitations for TRC based on the applicable dilution factors associated with the discharge. During the period of May 15 – May 31 (corresponding to a minimum dilution factor of 50:1), the previous permitting action established technology based monthly average and daily maximum concentration limits of 0.1 mg/L and 0.3 mg/L, respectively, for TRC. For the period of June 1 – September 30 (corresponding to a minimum dilution factor of 75:1), the previous permitting action established water quality based monthly average and daily maximum concentration limits of 0.83 mg/L and 1.0 mg/L, respectively, 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 water quality-based or BPT based limit. End-of-pipe acute and chronic water quality based concentration thresholds may be calculated as follows:

Criterion		Dilution Factors	Threshold
Acute	0.019 mg/L	50:1 (A)	0.95 mg/L
Chronic	0.011 mg/L	50:1 (C)	0.55 mg/L

Criterion		Dilution Factors	Threshold
Acute	0.019 mg/L	75:1 (A)	1.4 mg/L
Chronic	0.011 mg/L	75:1 (C)	0.83 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. For facilities that need to dechlorinate the discharge in order to meet water quality based thresholds (typically when the threshold is below 0.8 mg/L), the Department has established daily maximum and monthly average BPT limits of 0.3 mg/L and 0.1 mg/L, respectively.

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

During the periods when the applicable dilution factor is 50:1 (October 1 – November 30, March 1 – May 31), the technology-based monthly average standard of 0.1 mg/L is more stringent than the chronic threshold of 0.55 mg/L and is therefore being carried in this permitting action. The technology-based daily maximum standard of 0.3 mg/L is more stringent than the acute threshold of 0.95 mg/L and is therefore being carried in this permitting action.

During the periods when the applicable dilution factor is 75:1 (June 1 – September 30, December 1 – February 28), the water quality-based chronic threshold of 0.83 mg/L is more stringent than the technology-based threshold of 1.0 mg/L and is therefore being carried in this permitting action. The technology-based daily maximum standard of 1.0 mg/L is more stringent than the acute threshold of 1.4 mg/L and is therefore being carried in this permitting action.

It is noted for clarity that limitations for TRC are in effect on a year-round basis. The facility is only required to test for TRC when chlorine or chlorine-based compounds are used for effluent disinfection.

A summary of DMR for the period of December 1, 2012 – July 31, 2017 (months when facility reported no discharge are not included) is as follows:

Total residual chlorine (DMRs = 2)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	0.83	0.02 – 0.1	0.1
Daily Maximum	1.0	0.08 – 0.1	0.1

This permitting action is carrying forward a minimum monitoring frequency requirement of five times per week for TRC 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, which is based on 06-096 CMR 525(3)(III), and a minimum monitoring frequency requirement of five times per week for pH based on best professional judgment.

A summary of effluent pH data as reported on the monthly DMRs for the period of December 1, 2012 – July 31, 2017 (DMRs = 26) indicates the facility has been in compliance with said pH range limitation 100% of the time.

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

h. Mercury: Pursuant to 38 M.R.S. § 420 and 38 M.R.S. § 413 and 06-096 CMR 519, the Department issued a *Notice of Interim Limits for the Discharge of Mercury* to the permittee thereby administratively modifying WDL #W000842-5L-C-R by establishing interim monthly average and daily maximum effluent concentration limits of 6.1 parts per trillion (ppt.) and 9.1 ppt., respectively, and a minimum monitoring frequency requirement of 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 AWQC for mercury if the facility is in compliance with an interim discharge limit established by the Department. A review of the Department's database for the period October 1998 through April 2017 is as follows:

Mercury (n = 43)

Value	Limit (ng/L)	Range (ng/L)	Mean (ng/L)
Monthly Average	6.1	1.30 – 7.26	2.9
Daily Maximum	9.1		

On February 6, 2012, the Department issued a minor revision to the permit thereby revising the minimum monitoring frequency requirement from four times per year to once per year pursuant to 38 M.R.S. § 420(1-B)(F). This minimum monitoring frequency is being carried forward in this permitting action.

i. Total Phosphorus: *Waste Discharge License Conditions,* 06-096 CMR 523 specifies that water quality based limits are necessary when it has been determined that a discharge has a reasonable potential to cause or contribute to an excursion above any State water quality standard including State narrative criteria.[1] In addition, 06-096 CMR 523 specifies that water quality based limits may be based upon criterion derived from a proposed State criterion, or an explicit State policy or regulation interpreting its narrative water quality criterion, supplemented with other relevant information which may include: USEPA's Water Quality Standards Handbook, October 1983, risk assessment data, exposure data, information about the pollutant from the U.S. Food and Drug Administration, and current USEPA criteria documents.[2]

USEPA's Quality Criteria for Water 1986 (Gold Book) puts forth an in-stream phosphorus concentration goal of less than 0.100 mg/L in streams or other flowing waters not discharging directly to lakes or impoundments, to prevent nuisance algal growth. The use of the 0.100 mg/L Gold Book value is consistent with the requirements of 06-096 CMR 523 noted above for use in a reasonable potential (RP) calculation.

[1] *Waste Discharge License Conditions,* 06-096 CMR 523(5)(d)(1)(i) (effective date January 12, 2001)
[2] 06-096 CMR 523(5)(d)(1)(vi)(A)

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

Based on the above rationale, the Department has chosen to utilize the Gold Book value of 0.100 mg/L. It is the Department's intent to continue to make determinations of actual attainment or impairment based upon environmental response indicators from specific water bodies. The use of the Gold Book value of 0.100 mg/L for use in the RP calculation will enable the Department to establish water quality based limits in a manner that is reasonable and that appropriately establishes the potential for impairment, while providing an opportunity to acquire environmental response indicator data, numeric nutrient indicator data, and facility data as needed to refine the establishment of site specific water quality based limits for phosphorus. This permit may be reopened during the term of the permit to modify any reasonable potential calculations, phosphorus limits, or monitoring requirements based on new site-specific data.

Four effluent samples from the District were obtained in the summer of 2014. The average effluent concentration of those samples was 2.6 mg/L (2,625 micrograms per liter (µg/L)) and, for this exercise, is considered representative of the discharge from the facility. Three data samples obtained upstream of the facility by the Department in the summer of 2014 indicates that the maximum concentration was 16 µg/L or 0.016 mg/L. Therefore, for this calculation, we will be using 0.016 mg/L.

Using the following calculation, the District does not have a reasonable potential to exceed the USEPA's Total P Ambient Water Quality Gold Book goal of 0.100 mg/L (100 µg/L), however, they do have reasonable potential to exceed the Department's draft ambient water quality criterion of 0.033 mg/L for phosphorus in rivers and streams not feeding lakes.

Reasonable Potential Analysis

$$Cr = \frac{QeCe + QsCs}{Qr}$$

Qe = effluent flow	=	1.00 MGD
Ce = effluent concentration	=	2.6 mg/L
Qs = 7Q10 flow of receiving water	=	113 MGD
Cs = upstream concentration	=	0.016 mg/L
Qr = receiving water flow (113 MGD + 1.00 MGD)	=	114 MGD
Cr = receiving water concentration		

$$Cr = \frac{(1.00\ MGD \times 2.6\ mg/L) + (113\ MGD \times 0.016\ mg/L)}{114\ MGD} = 0.039\ mg/L$$

Cr = 0.039 mg/L < 0.100 (EPA Gold Book) mg/L⇒ **No Reasonable Potential**
Cr = 0.039 mg/L > 0.030 (Maine Draft Criterion) mg/L ⇒ **Has Reasonable Potential**

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

According to Department guidance, when a discharger has reasonable potential at the Draft Criterion, they must conduct five years of effluent monitoring and 1 year of ambient (background) monitoring for phosphorus. The Department is required to conduct environmental indicator monitoring during low flow conditions (as specified by DEP protocol).

Therefore, a five-year, seasonal, phosphorus effluent monitoring requirement is being established in this permit as well as a one-year, seasonal, ambient phosphorus monitoring requirement. It is noted it is the District's normal practice (not prohibited by this permit or the previous permitting action) is not to discharge between May 15th and September 30th of each year to avoid the potential of adversely impacting ambient water quality during the summer months when receiving waters are most at risk. Therefore this requirement is limited to when the permittee is discharging from June 1st through September 30th of each year.

j. Stream Flow & Minimum Dilution Factors: Previous permitting action established, and this permit is carrying forward, a monitoring and reporting requirement for stream flow in Prestile Stream, to verify dilution factors associated with the discharge.

A review of the monthly DMR data for the period December 1, 2012 – July 31, 2017 indicates monthly average and the minimum daily maximum values have been reported as follows:

Stream flow (DMRs = 26)

Value	Limit (cfs)	Range (cfs)	Mean (cfs)
Monthly Average	Report	44 – 326	155
Daily Maximum	Report	20 - 217	106

Minimum Dilution factor (DMRs = 5) (Oct. 1 – Nov. 30 and Mar. 1 – May 31)

Value	Limit (ratio)	Range (ratio)	Mean (ratio)
Daily Maximum	75:1	76 – 185	117

Minimum Dilution factor (DMRs = 22) (Jun 1 – Sept. 30 and Dec. 1 – Feb. 28)

Value	Limit (ratio)	Range (ratio)	Mean (ratio)
Daily Maximum	50:1	51 - 661	159

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

k. 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 supporting analytical chemistry testing as required by 06-096 CMR 530 are included in this permit to fully characterize the effluent. This permit also provides for reconsideration of effluent limits and monitoring schedules after the evaluation of toxicity testing results. The monitoring schedule includes consideration of results currently on file, the nature of the wastewater and existing treatment and receiving water characteristics.

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 brook trout (*Salvelinus fontinalis*) and the invertebrate water flea (*Ceriodaphnia dubia*). 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 included as Attachment D of the permit. Analytical chemistry refers to those pollutants listed under "Analytical Chemistry" on the form included as Attachment D of the permit.

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

> All licensed dischargers of industrial process wastewater or domestic wastes discharging to surface waters of the State must meet the testing requirements of this section. Dischargers of other types of wastewater are subject to this subsection when and if the Department determines that toxicity of effluents may have reasonable potential to cause or contribute to exceedences of narrative or numerical water quality criteria.

The 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 dischargers subject to the toxics rule into one of four levels (Levels I through IV).

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

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 criteria, the permittee's facility is considered a Level II discharger as the chronic dilution of the receiving water is ≥20:1 but <100:1. 06-096 CMR 530(2)(D) specifies routine WET, priority pollutant, and analytical chemistry test schedules for Level II dischargers as follows.

Surveillance level testing

Level	WET Testing	Priority pollutant testing	Analytical chemistry
II	1 per year	None Required	2 per year

Screening level testing

Level	WET Testing	Priority pollutant testing	Analytical chemistry
II	2 per year	1 per year	4 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.

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. 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 exceedence of water quality criteria, appropriate water quality-based limits must be established in any licensing action.

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

WET evaluation

On August 28, 2017, the Department conducted a statistical evaluation on the most recent 60 months of WET test results on file with the Department for the Mars Hill POTW in accordance with the statistical approach outlined above.

The 8/28/17 statistical evaluation indicates the discharge from the District has not exceeded or demonstrated a reasonable potential to exceed the critical acute or chronic ambient water quality thresholds for the water flea or brook trout. See **Attachment D** of this Fact Sheet for a summary of the WET test results.

06-096 CMR 530(2)(D)(3)(c) states, in part, that Level II facilities "… may reduce surveillance testing to one WET or specific chemical series every other year provided that testing in the preceding 60 months does not indicate any reasonable potential for exceedance as calculated pursuant to section 3(e)."

Based on the provisions of 06-096 CMR 530 and Department best professional judgment, this permitting action is carrying forward the waiver for surveillance level WET testing requirements for this facility. Special Condition J. *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.

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 shall 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 shall 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.

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

The Department does not have any information on the background levels of metals in the water column in Prestile Stream in the vicinity of the permittee's outfall. Based on data collected from 60 rivers and streams upstream of known point sources statewide, a background concentration of 10% of the applicable water quality criteria is being used in the calculations of this permitting action.

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

> In allocating assimilative capacity for toxic pollutants, the Department shall hold a portion of the total capacity in an unallocated reserve to allow for new or changed discharges and non-point source contributions. The unallocated reserve must be reviewed and restored as necessary at intervals of not more than five years. The water quality reserve must be not less than 15% of the total assimilative quantity."

However, given the discharge restrictions, and that the District is the only discharger on Prestile Stream, the reserve of 15% is not being withheld.

On June 29, 2017, the Department conducted a statistical evaluation of the most recent 60 months of chemical-specific test results on file with the Department.

The 6/29/17 evaluation indicated that the discharge does not exceed or have a reasonable potential to exceed any acute, chronic, or human health AWQC for any of the pollutants of concern. See **Attachment E** of this Fact Sheet for test dates and results for the pollutants of concern.

06-096 CMR 530(2)(D)(3)(c) states, that Level II facilities "… may reduce surveillance testing to one WET or specific chemical series every other year provided that testing in the preceding 60 months does not indicated any reasonable potential for exceedance as calculated pursuant to section 3(E)."

Based on the provisions of 06-096 CMR 530 and Department best professional judgment, this permitting action is carrying forward the previously established reduced surveillance level testing requirements for this facility. Special Condition I. *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 surveillance testing.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As permitted, the Department has determined the existing water uses will be maintained and protected and the discharge will not cause, contribute, or have a reasonable potential to cause or contribute to the failure of the water body to meet standards for Class B classification.

8. PUBLIC COMMENTS

Public notice of this application was made in the *Star Herald* newspaper on or about April 5, 2017. 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 C.M.R. 522 (effective January 12, 2001).

9. DEPARTMENT CONTACTS

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

Cindy L. Dionne
Division of Water Quality Management - Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 557-5950
e-mail: Cindy.L.Dionne@maine.gov

10. RESPONSE TO COMMENTS

This section is reserved until the end of the public comment period.

ATTACHMENT A

Legend

- Major Facilities
- Minor Facilities

Wastewater Outfalls

- Combined Sewer Overflow

Wastewater Outfalls

- Major >1 MGD

Wastewater Outfalls

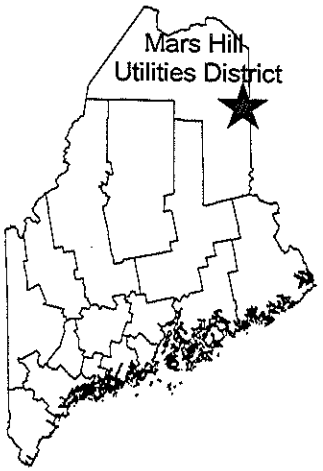
- Minor < 1 MGD

River Class

- AA
- A
- B
- C

Stream Class

- AA
- A
- B
- C



State of Maine Map Inset

0 0.05 0.1 0.2 Miles

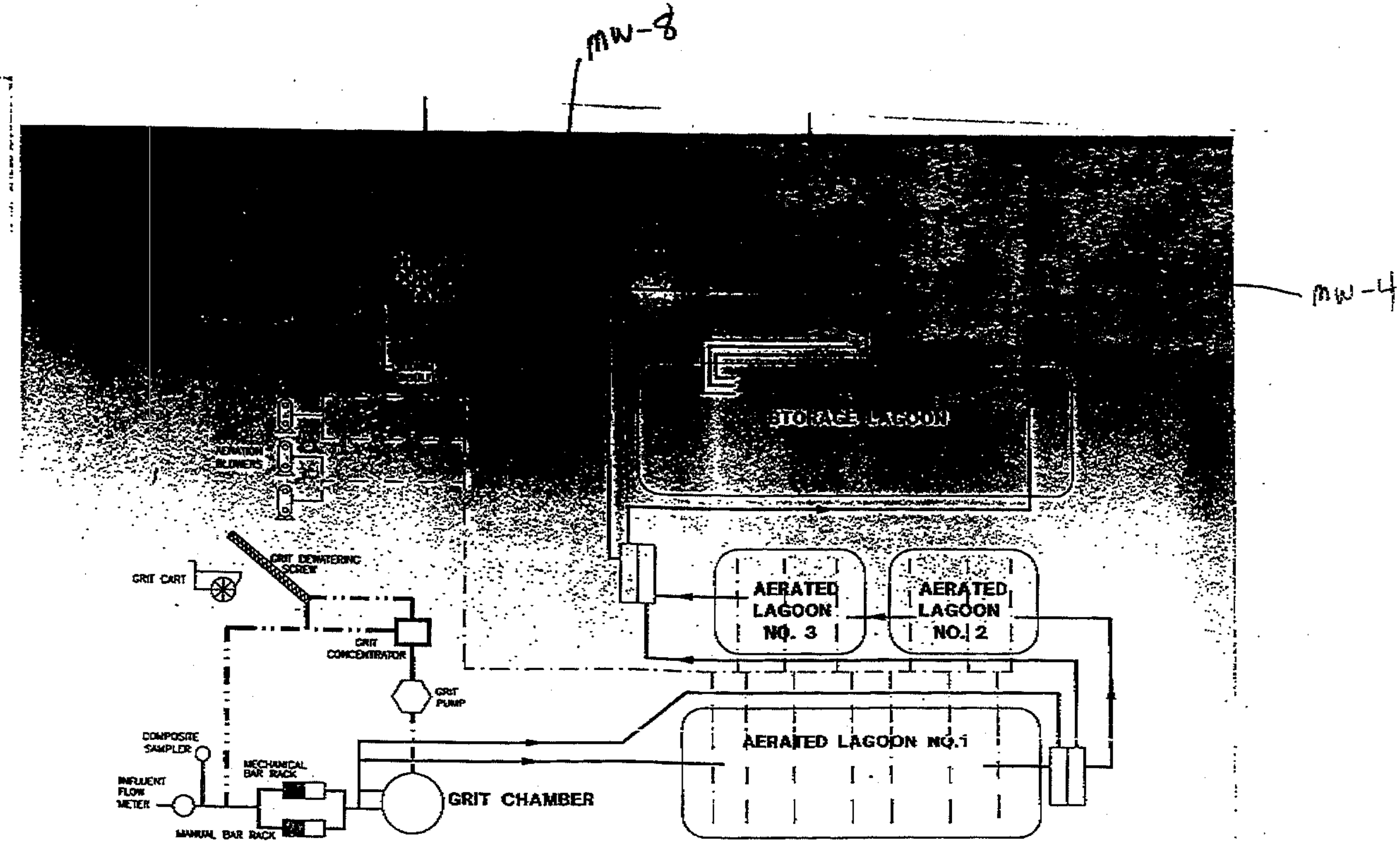
N
W E
S

Mars Hill Utility District at Mars Hill , Maine

Map created by Maine DEP
September 14, 2007

DEPARTMENT OF ENVIRONMENTAL PROTECTION · STATE OF MAINE ·

ATTACHMENT B


mw-8
mw-4
STORAGE LAGOON
AERATION BLOWERS
GRIT DEWATERING SCREW
GRIT CART
GRIT CONCENTRATOR
GRIT PUMP
AERATED LAGOON NO. 3
AERATED LAGOON NO. 2
AERATED LAGOON NO.1
COMPOSITE SAMPLER
INFLUENT FLOW METER
MECHANICAL BAR RACK
MANUAL BAR RACK
GRIT CHAMBER

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

WET TEST REPORT

Data for tests conducted for the period

06/Oct/2012 - 06/Oct/2017

MARS HILL UTILITIES DISTRICT NPDES= ME010107 Effluent Limit: Acute (%) = 0.881 Chronic (%) = 0.881

Species	Test	Percent	Sample date	Critical %	Exception	RP
TROUT	A_NOEL	100	10/16/2012	0.881		
TROUT	A_NOEL	100	11/04/2014	0.881		
TROUT	A_NOEL	100	04/19/2016	0.881		
TROUT	A_NOEL	100	12/12/2016	0.881		
TROUT	C_NOEL	25	10/16/2012	0.881		
TROUT	C_NOEL	100	11/04/2014	0.881		
TROUT	C_NOEL	100	04/19/2016	0.881		
TROUT	C_NOEL	100	12/12/2016	0.881		
WATER FLEA	A_NOEL	100	10/16/2012	0.881		
WATER FLEA	A_NOEL	100	11/04/2014	0.881		
WATER FLEA	A_NOEL	100	04/19/2016	0.881		
WATER FLEA	A_NOEL	100	12/12/2016	0.881		
WATER FLEA	C_NOEL	10	10/16/2012	0.881		
WATER FLEA	C_NOEL	50	11/04/2014	0.881		
WATER FLEA	C_NOEL	100	04/19/2016	0.881		
WATER FLEA	C_NOEL	100	12/12/2016	0.881		

ATTACHMENT E

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
1,1,1-TRICHLOROETHANE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,1,2,2-TETRACHLOROETHANE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,1,2-TRICHLOROETHANE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,1-DICHLOROETHANE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,1-DICHLOROETHYLENE			
	10/16/2012	3.0000	Y
	03/15/2016	3.0000	Y
1,2-(O)DICHLOROBENZENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
1,2,4-TRICHLOROBENZENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
1,2-DICHLOROETHANE			
	10/16/2012	3.0000	Y
	03/15/2016	3.0000	Y
1,2-DICHLOROPROPANE			
	10/16/2012	5.0000	Y

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

1,2-DICHLOROPROPANE	**Test date**	**Result (ug/l)**	**Lsthan**
	03/15/2016	5.0000	Y
1,2-DIPHENYLHYDRAZINE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	19.0000	Y
	03/15/2016	19.0000	Y
1,2-TRANS-DICHLOROETHYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,3-(M)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
1,3-DICHLOROPROPYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
1,4-(P)DICHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2,4,6-TRICHLOROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2,4-DICHLOROPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2,4-DIMETHYLPHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
2,4-DINITROPHENOL			
	10/16/2012	24.0000	Y
	03/15/2016	24.0000	Y
2,4-DINITROTOLUENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2,6-DINITROTOLUENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2-CHLOROETHYLVINYL ETHER			
	10/16/2012	10.0000	Y
	03/15/2016	10.0000	Y
2-CHLORONAPHTHALENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2-CHLOROPHENOL			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
2-NITROPHENOL			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
3,3'-DICHLOROBENZIDINE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
3,4-BENZO(B)FLUORANTHENE			
	10/16/2012	4.7000	Y

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
3,4-BENZO(B)FLUORANTHENE			
	03/15/2016	4.7000	Y
4,4'-DDD			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
4,4'-DDE			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
4,4'-DDT			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
4,6-DINITRO-O-CRESOL			
	10/16/2012	24.0000	Y
	03/15/2016	24.0000	Y
4-BROMOPHENYLPHENYL ETHER			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
4-CHLOROPHENYL PHENYL ETHER			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
4-NITROPHENOL			
	10/16/2012	19.0000	Y
	03/15/2016	19.0000	Y
A-BHC			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
ACENAPHTHENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
ACENAPHTHYLENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
ACROLEIN			
	10/16/2012	10.0000	Y
	03/15/2016	10.0000	Y
ACRYLONITRILE			
	10/16/2012	25.0000	Y
	03/15/2016	25.0000	Y
A-ENDOSULFAN			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
ALDRIN			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
ALUMINUM			
	10/16/2012	60.0000	Y
	11/04/2014	60.0000	Y
	04/19/2016	60.0000	Y
	12/12/2016	20.0000	Y
AMMONIA			
	10/16/2012	3,120.0000	N
	11/04/2014	2,954.0000	N

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
AMMONIA			
	04/19/2016	5,900.0000	N
	12/12/2016	4,700.0000	N
ANTHRACENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
ANTIMONY			
	10/16/2012	5.0000	Y
	03/15/2016	0.2000	Y
ARSENIC			
	10/16/2012	5.0000	Y
	11/04/2014	5.0000	Y
	04/19/2016	1.0000	Y
	12/12/2016	1.0000	Y
B-BHC			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
B-ENDOSULFAN			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
BENZENE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
BENZIDINE			
	10/16/2012	24.0000	Y
	03/15/2016	24.0000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

BENZO(A)ANTHRACENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BENZO(A)PYRENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BENZO(G,H,I)PERYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BENZO(K)FLUORANTHENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BERYLLIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	2.0000	Y
	03/15/2016	0.2000	Y
BIS(2-CHLOROETHOXY)METHANE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BIS(2-CHLOROETHYL)ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BIS(2-CHLOROISOPROPYL)ETHER	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
BIS(2-ETHYLHEXYL)PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

BIS(2-ETHYLHEXYL)PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	03/15/2016	4.7000	Y
BROMOFORM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
BUTYLBENZYL PHTHALATE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
CADMIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	1.0000	Y
	11/04/2014	1.0000	Y
	04/19/2016	0.2000	Y
	12/12/2016	0.2000	Y
CALCIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	51,100.0000	N
	11/04/2014	46.6000	N
CARBON TETRACHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
CHLORDANE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
CHLORINE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	20.0000	Y
	11/04/2014	50.0000	Y
CHLOROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
CHLOROBENZENE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
CHLORODIBROMOMETHANE			
	10/16/2012	3.0000	Y
	03/15/2016	3.0000	Y
CHLOROETHANE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
CHLOROFORM			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
CHROMIUM			
	10/16/2012	10.0000	Y
	11/04/2014	10.0000	Y
	04/19/2016	1.0000	Y
	12/12/2016	1.0000	Y
CHRYSENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
COPPER			
	10/16/2012	4.5000	N
	11/04/2014	6.8700	N
	04/19/2016	15.6000	N
	12/12/2016	7.9700	N
CYANIDE			

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
CYANIDE			
	10/16/2012	6.2000	N
	11/04/2014	5.0000	Y
CYANIDE TOTAL			
	04/19/2016	5.0000	Y
	12/12/2016	5.0000	Y
D-BHC			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
DIBENZO(A,H)ANTHRACENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
DICHLOROBROMOMETHANE			
	10/16/2012	3.0000	Y
	03/15/2016	3.0000	Y
DIELDRIN			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
DIETHYL PHTHALATE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
DIMETHYL PHTHALATE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
DI-N-BUTYL PHTHALATE			
	10/16/2012	4.7000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
DI-N-BUTYL PHTHALATE			
	03/15/2016	4.7000	Y
DI-N-OCTYL PHTHALATE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
ENDOSULFAN SULFATE			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
ENDRIN			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
ENDRIN ALDEHYDE			
	10/16/2012	0.0200	Y
	03/15/2016	0.0200	Y
ETHYLBENZENE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
FLUORANTHENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
FLUORENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
G-BHC			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
HEPTACHLOR			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
HEPTACHLOR EPOXIDE			
	10/16/2012	0.0100	Y
	03/15/2016	0.0100	Y
HEXACHLOROBENZENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
HEXACHLOROBUTADIENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
HEXACHLOROCYCLOPENTADIENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
HEXACHLOROETHANE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
INDENO(1,2,3-CD)PYRENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
ISOPHORONE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
LEAD			
	10/16/2012	3.0000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
LEAD			
	11/04/2014	3.0000	Y
	04/19/2016	0.2000	Y
	12/12/2016	0.4300	N
MAGNESIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4,630.0000	N
	11/04/2014	4,640.0000	N
MERCURY	**Test date**	**Result (ng/l)**	**Lsthan**
	11/07/2012	1.60	N
	10/01/2013	1.60	N
	04/28/2014	2.40	N
	03/24/2015	2.78	N
	03/24/2016	2.87	N
	04/04/2017	2.34	N
	04/14/2017	7.26	N
METHYL BROMIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
METHYL CHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
METHYLENE CHLORIDE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
NAPHTHALENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

NAPHTHALENE	**Test date**	**Result (ug/l)**	**Lsthan**
	03/15/2016	4.7000	Y
NICKEL	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	11/04/2014	5.0000	Y
	04/19/2016	0.9900	N
	12/12/2016	1.4100	N
NITROBENZENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
N-NITROSODIMETHYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
N-NITROSODI-N-PROPYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
N-NITROSODIPHENYLAMINE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
PCB-1016	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1221	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1232	**Test date**	**Result (ug/l)**	**Lsthan**

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
PCB-1232			
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1242			
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1248			
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1254			
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
PCB-1260			
	10/16/2012	0.0900	Y
	03/15/2016	0.0900	Y
P-CHLORO-M-CRESOL			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
PENTACHLOROPHENOL			
	10/16/2012	19.0000	Y
	03/15/2016	19.0000	Y
PHENANTHRENE			
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
PHENOL			
	10/16/2012	4.7000	Y

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

PHENOL	**Test date**	**Result (ug/l)**	**Lsthan**
	03/15/2016	4.7000	Y
PYRENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.7000	Y
	03/15/2016	4.7000	Y
SELENIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	1.0000	Y
SILVER	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	1.0000	Y
	11/04/2014	1.0000	Y
	04/19/2016	0.2000	Y
	12/12/2016	0.2000	Y
SPECIFIC CONDUCTANCE (UMHOS)	**Test date**	**Result (ug/l)**	**Lsthan**
	04/19/2016	640.0000	N
	12/12/2016	563.0000	N
TETRACHLOROETHYLENE	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
THALLIUM	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	4.0000	Y
	03/15/2016	0.2000	Y
TOC	**Test date**	**Result (ug/l)**	**Lsthan**
	10/16/2012	12,000.0000	N
	11/04/2014	10,000.0000	N
TOLUENE	**Test date**	**Result (ug/l)**	**Lsthan**

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

	Test date	Result (ug/l)	Lsthan
TOLUENE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
TOXAPHENE			
	10/16/2012	0.1900	Y
	03/15/2016	0.1900	Y
TRICHLOROETHYLENE			
	10/16/2012	3.0000	Y
	03/15/2016	3.0000	Y
TSS			
	10/16/2012	4,700.0000	N
	11/04/2014	4,000.0000	N
VINYL CHLORIDE			
	10/16/2012	5.0000	Y
	03/15/2016	5.0000	Y
ZINC			
	10/16/2012	5.0000	Y
	11/04/2014	5.0000	Y
	04/19/2016	9.8000	N
	12/12/2016	7.9300	N

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

15/Aug/2012 - 15/Aug/2017

Facility name: **MARS HILL UTILITIES DISTRICT** Permit Number: ME0101079 Effluent Limit: Acute (%) = 0.88 Chronic (%) = 0.88

CHEMICAL TEST REPORT

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

WET TEST REPORT

Species	Test	Percent	Sample date	Critical %	Exception	RP
TROUT	A_NOEL	100	10/16/2012	0.881		
TROUT	A_NOEL	100	11/04/2014	0.881		
TROUT	A_NOEL	100	12/12/2016	0.881		
TROUT	C_NOEL	25	10/16/2012	0.881		
TROUT	C_NOEL	100	11/04/2014	0.881		
TROUT	C_NOEL	100	12/12/2016	0.881		
WATER FLEA	A_NOEL	100	10/16/2012	0.881		
WATER FLEA	A_NOEL	100	11/04/2014	0.881		
WATER FLEA	A_NOEL	100	12/12/2016	0.881		
WATER FLEA	C_NOEL	10	10/16/2012	0.881		
WATER FLEA	C_NOEL	50	11/04/2014	0.881		
WATER FLEA	C_NOEL	100	12/12/2016	0.881		

ATTACHMENT F

Limitations for Industrial Users – How to conduct an Industrial Waste Survey

The National Pretreatment Program is scaled to cities and towns that are generally more developed than those in Maine. Small towns around here tend to wonder what the fuss is about – we know (or at least are pretty sure we know) everything that's going on in our collection systems. A lot can happen, and a lot can change in areas like Portland, Bangor, Lewiston/Auburn, let alone bigger places like Boston or NY. Regardless of community size, or whether or not you have any new facilities (or existing facilities that have changed what they're doing), the Industrial Waste Survey (IWS) is a federal requirement that has been adopted into Maine's MEPDES wastewater licensing program.

Step 1: For a small community, the quickest, easiest thing to do is take a day when not much is going on at the plant, get in the vehicle, & drive the entire extent of your collection system. Take the attached logsheet with you & make a list of every industrial or significant commercial facility that discharges to your system. The IWS list is basically a summary of the dischargers in your system that may have wastewater with different characteristics than the wastewater discharge from the sinks, toilets, bathtub, dishwasher and washing machine at your typical home or commercial building.

(Note: Do not include homes, rentals, restaurants, delis & fast food joints. You may need a FOG/grease trap program for those kinds of places, but that's a different consideration than an IWS and most small-scale commercial activity. Even some larger-scale places, like schools, cafeterias, managed care homes, etc., generally have wastewater that is similar in characteristics to residential wastewater, just more of it.)

Step 2 – Take your logsheet and compare each facility to this set of conditions:

► Does the facility discharge a monthly average of >25,000 gallons a day of **process** wastewater?

► Does the facility's **process** wastewater discharge make up 5% or more of your daily influent flow?

► Does the facility's **process** wastewater discharge make up 5% or more of your daily influent BOD?

► Does the facility's **process** wastewater discharge make up 5% or more of your daily influent TSS?

► Does the facility's **process** wastewater have a reasonable potential to adversely affect your POTW operations, cause a problem with your discharge, or cause a problem with your sludge disposal?

If "yes" to any of the above, then the facility is a potential **Significant Industrial User** of your system. Put a check in that column on the spreadsheet.

Step 3 - Indicate on the spreadsheet if any of the facilities fall under one of the National Categorical Standards, 40 CFR 405 through 471 (Use the attached list of Categorical Industrial Users to determine if any of the facilities on your list are included).

*If yes to this consideration, then the facility may be a **Categorical Industrial User** of your system. Put a check in that column also.*

See next page

Step 4 - If any of the facilities on your list meet one or more of those conditions, then you're going to want to go back and take a closer look at them; find out more detail on their process(es), wastewater characteristics, discharge pattern. You will likely find that most facilities are not a problem. Only a few will need closer scrutiny.

(Note – having industries within your collection system does not automatically require increased regulatory activity on your part; the only uniform requirement is that you know what you have.) The first time through the IWS process takes some time but after that it is relative easy to update it on an as-needed basis.

Though this requirement has only recently explicitly appeared in MEPDES permits, it has actually been a federal requirement all along. Again, the first time through will be a bit of a project, but from then on, it shouldn't be difficult.

If you have questions regarding whether a particular discharger is a **Significant Industrial User** or **Categorical Industrial User contact your assigned MeDEP wastewater treatment system inspector or the MEDEP Pretreatment coordinator.**

James R. Crowley
Compliance Supervisor, State Pretreatment Coordinator
Department of Environmental Protection
Division of Water Quality Management
207-287-8898
james.r.crowley@maine.gov

Industrial User Survey

Date:_____

Surveyor:_____

	Facility name/Address/ Contact	Type of business	Wastewater flow (GPD)	Wastewater characteristics, conc., constituents, etc	Comments	Onsite Pretreatment?	Significant Industrial User?	Categorical Industrial User?

Categorical Industrial Users (from 40 CFR Sections 403-471)

	5	Dairy Products		26	Glass Manu.		46	Paint formulating
	6	Grain Mill		27	Asbestos manu.		47	Ink formulating
	7	Canned/preserv fruits& vegs		28	Rubber manu.		49	Airport deicing
	8	Canned/preserved seafood		29	Timber products processing		50	Construction & Development
	9	Sugar processing		30	Pulp/paper/paperboard		51	Conc. aquatic animal prod.
	10	Textile mill		32	Meat & Poultry products		54	Gum & Wood chemicals
	11	Cement manufacturing		33	Metal Finishing		55	Pesticide Chemicals
	12	Conc. animal feeding ops.		34	Coal mining		57	Explosives
	13	Electroplating		35	Oil& Gas extraction		58	Carbon Black Manu.
	14	Organic chemicals, plastics & syn. fiber		36	Mineral mining/processing		59	Photographic
	15	Inorganic chemicals		37	Centralized waste treatment		60	Hospital
	17	Soap & Detergent Manu.		38	Metal products		61	Battery manufacturing
	18	Fertilizer manu.		39	Pharmaceutical Manu		63	Plastics molding/forming
	19	Petroleum refining		40	Ore mining/processing		64	Metal molding/casting
	20	Iron & Steel manu.		42	Transportation equip. cleaning		64	Coil coating
	21	Non-Ferrous metals		43	Paving & roofing materials		66	Porcelain
	22	Phosphate		44	Waste combustors		67	Aluminum forming
	23	Steam Electric power		45	Landfill		68	Copper forming
	24	Ferroalloy manu.					69	Electrical & electronic components
	25	Leather tanning/finishing					71	Nonferrous metals forming/Metals powders