STATE OF MAINE
DEPARTMENT OF
ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE
GOVERNOR

PAUL MERCER
COMMISSIONER

November 8, 2018

Dave Bolstridge
Town of Camden
P.O. Box 1207
Camden, Me 04843
dbolstridge@camdenmaine.gov

Sent via electronic mail
Delivery confirmation requested

RE: *Maine Pollutant Discharge Elimination System (MEPDES) Permit # ME0100137*
Maine Waste Discharge License (WDL) Application # W002592-6D-I-R
Proposed Draft MEPDES Permit Renewal

Dear David Bolstridge:

Enclosed 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 conditions (special conditions specific to this permit are enclosed; standard conditions applicable to all permits are available upon request). 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, as required by our new regulations, and from any other parties who have notified the Department of their interest in this matter. If you have any questions regarding the matter, please feel free to call me.

All comments must be received in the Department of Environmental Protection office on or before the close of business **Friday, December 7, 2018.** Failure to submit comments in a timely fashion will result in the final 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
Aaron.A.Dumont@maine

If you have any questions regarding the matter, please feel free to call me at (207)-592-7161.

Sincerely,

Aaron Dumont
Division of Water Quality Management
Bureau of Water Quality
Aaron.A.Dumont@maine.gov
Phone: 207-592-7161

Enclosure

cc: Denise Behr, DEP/CMRO
Lori Mitchel, DEP/CMRO
Alex Rosenberg, USEPA
Ellen Weitzler, USEPA
Solanch Pastrana Del-Valle, USEPA
Richard Carvalho, USEPA
Marelyn Vega, USEPA
Shelley Puleo, USEPA

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

DEPARTMENT ORDER

IN THE MATTER OF

TOWN OF CAMDEN	)	MAINE POLLUTANT DISCHARGE
CAMDEN, KNOX COUNTY, ME	)	ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS	)	AND
ME0100137	)	WASTE DISCHARGE LICENSE
W002592-6D-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, and applicable rules of the Department of Environmental Protection (Department), the Department has considered the application of the TOWN OF CAMDEN (Town), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On January 12, 2018, the Department accepted as complete for processing, a renewal application from the Town for the renewal of Waste Discharge License (WDL) W002592-6D-H-R/Maine Pollutant Discharge Elimination System (MEPDES) permit ME0100137, which was issued on August 5, 2013, for a five-year term. The 8/5/13 MEPDES permit authorized the Town to discharge of a monthly average flow of 1.21 million gallons per day (MGD) of secondary treated municipal wastewater from a publicly owned treatment works facility to Camden Harbor, Class SB, in Camden, Maine.

PERMIT SUMMARY

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

1. This permitting action is changing the acute and chronic discharge limitations for Whole Effluent Toxicity Testing (WET) from 3.7% and 2% to Report, based on the past 60 months of testing data; and

2. Establishes seasonal effluent monitoring and reporting requirements for total nitrogen (nitrate and nitrite as nitrogen and total Kjehldahl nitrogen as nitrogen).

3. Establishes a new monitoring period for Fecal coliform bacteria from April 15th - October 31st.

CONCLUSIONS

Based on the findings summarized in the attached and incorporated Fact Sheet dated November 7, 2018, and subject to the special and standard conditions that follow, the Department makes the following CONCLUSIONS:

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

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

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

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

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

   c. Where the standards of classification of the receiving waterbody are not met, the discharge will not cause or contribute to the failure of the waterbody to meet the standards of classification;

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

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

4. The discharges will be subject to effluent limitations that require application of best practicable treatment as defined in *Conditions of licenses*, 38 M.R.S. § 414-A(1)(D).

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ACTION

THEREFORE, the Department APPROVES the above noted application of the TOWN OF CAMDEN to discharge a monthly average flow of 1.21 million gallons per day (MGD) of per day of secondary treated sanitary wastewater to Camden Harbor, Class SB, in Camden, Maine, SUBJECT TO THE FOLLOWING CONDITIONS, and all applicable standards and regulations including:

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

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

3. This permit and the authorization to discharge become effective upon the date of signature below and expire at midnight five (5) years from the effective date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this permit, the authorization to discharge and the terms and conditions of this permit and all modifications and minor revisions thereto remain in effect until a final Department decision on the renewal application becomes effective. [*Maine Administrative Procedure Act*, 5 M.R.S. § 10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (amended October 19, 2015)]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS ___ DAY OF _____ 2018.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:_____
MELANIE LOYZIM, Acting Commissioner

Date filed with Board of Environmental Protection_____

Date of initial receipt of application: January 11, 2018
Date of application acceptance: January 12, 2018

This Order prepared by Aaron Dumont, BUREAU OF WATER QUALITY

SPECIAL CONDITIONS

A.1. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Beginning upon issuance of this permit, the permittee is authorized to discharge secondary treated municipal wastewater from a publicly owned treatment works via **OUTFALL #001A** to Camden Harbor. Such discharges are limited and must be monitored by the permittee as specified below[(1)].

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow *[50050]*	1.21 MGD *[03]*	---	Report MGD *[03]*	---	---	---	Continuous *[99/99]*	Recorder *[RC]*
BOD *[00310]*	303 lbs./day *[26]*	454 lbs./day *[26]*	505 lbs./day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	1/Week *[01/07]*	24 Hr. Composite *[24]*
BOD_5 Percent Removal[(2)] *[81010]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
Total Suspended Solids *[00530]*	303 lbs./day *[26]*	454 lbs./day *[26]*	505 lbs./day *[26]*	30 mg/L *[19]*	45 mg/L *[19]*	50 mg/L *[19]*	1/Week *[01/07]*	24 Hr. Composite *[24]*
TSS Percent Removal[(2)] *[81011]*	---	---	---	85% *[23]*	---	---	1/Month *[01/30]*	Calculate *[CA]*
Settleable Solids *[00545]*	---	---	---	---	---	0.3 ml/L *[25]*	2/Week *[02/07]*	Grab *[GR]*
Fecal Coliform Bacteria[(3)] *[31616]*	---	---	---	15/100 ml *[13]*	---	50/100 ml *[13]*	1/Week *[01/07]*	Grab *[GR]*
Total Residual Chlorine[(4)] *[50060]*	---	---	---	0.1 mg/L *[19]*	---	0.3 mg/L *[19]*	5/Week *[05/07]*	Grab *[GR]*
Mercury (Total)[(5)] *[71900]*	---	---	---	83.4 ng/L *[3M]*	---	125.1 ng/L *[3M]*	1/Year *[01/YR]*	Grab *[GR]*
pH *[00400]*	---	---	---	---	---	6.0-9.0 *[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 – 10 of this permit for applicable footnotes

SPECIAL CONDITIONS

A.2. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd)

(May 1st- October 31st 2019)

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Nitrate + Nitrite (as N) ***[00630]*** (May 1 through Oct. 31, 2019)	Report lbs./day *[26]*	---	Report lbs./day *[26]*	Report mg/L *[19]*	---	Report mg/L *[19]*	2/Month *[01/07]*	**24-Hour Composite** *[24]*
Total Kjehldahl Nitrogen (as N) ***[00625]*** (May 1 through Oct. 31, 2019)	Report lbs./day *[26]*	---	Report lbs./day *[26]*	Report mg/L *[19]*	---	Report mg/L *[19]*	2/Month *[01/07]*	**24-Hour Composite** *[24]*

The italicized numeric values bracketed in the table and in subsequent text are code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports.
FOOTNOTES: See Pages 7 – 10 of this permit for applicable footnotes.

(May 1st- October 31st 2020- 2022)

Effluent Characteristic	Discharge Limitations						Minimum Monitoring Requirements	
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type
Nitrate + Nitrite (as N) ***[00630]*** Annually (May 1 through Oct. 31, 2019-2022)	Report lbs./day *[26]*	---	Report lbs./day *[26]*	Report mg/L *[19]*	---	Report mg/L *[19]*	1/Month *[01/30]*	**24-Hour Composite** *[24]*
Total Kjehldahl Nitrogen (as N) ***[00625]*** Annually (May 1 through Oct. 31, 2019-2022)	Report lbs./day *[26]*	---	Report lbs./day *[26]*	Report mg/L *[19]*	---	Report mg/L *[19]*	1/Month *[01/30]*	**24-Hour Composite** *[24]*

The italicized numeric values bracketed in the table and in subsequent text are code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports.
FOOTNOTES: See Pages 8 – 11 of this permit for applicable footnotes.

SPECIAL CONDITIONS

A.3. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – OUTFALL #001 (cont'd)

SCREENING LEVEL TESTING

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

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Whole Effluent Toxicity [6] **Acute – NOEL** *Americamysis bahia* (Mysid shrimp) *[TDM3E]*	---	Report% *[23]*	2/Year *[02/YR]*	Composite *[24]*
Chronic – NOEL *Arbacia punctulata* (Sea urchin) *[TBH3A]*	---	Report% *[23]*	2/Year *[02/YR]*	Composite *[24]*
Analytical Chemistry [7,9] *[51477]*	---	Report ug/L *[28]*	1/Quarter *[01/90]*	Composite / Grab *[24/GR]*
Priority Pollutant [8,9] *[50008]*	---	Report ug/L *[28]*	1/Year *[01/YR]*	Composite / Grab *[24/GR]*

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

FOOTNOTES: See Pages 8– 11 of this permit for applicable footnotes

A.3. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS – OUTFALL #001 (cont'd)

SURVEILLANCE LEVEL TESTING

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

Effluent Characteristic	Discharge Limitations		Minimum Monitoring Requirements	
	Monthly Average	Daily Maximum	Measurement Frequency	Sample Type
Whole Effluent Toxicity[6]				
Acute No Observed Effect Level (A-NOEL) *Americamysis bahia* (Mysid shrimp) *[TDA3E]*	---	Report% *[23]*	1/2 Year *[01/2YR]*	Composite *[24]*
Chronic No Observed Effect Level (C-NOEL) Chronic – NOEL *Arbacia punctulata* (Sea urchin) *[TBH3A]*	---	Report% *[23]*	1/2 Year *[01/2YR]*	Composite *[24]*
Analytical chemistry[7,9] *[51477]*	---	Report ug/L *[28]*	1/2 Year *[01/2YR]*	Composite/Grab *[24/GR]*

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

FOOTNOTES: See Pages 8 – 11 of this permit for applicable footnotes

SPECIAL CONDITIONS

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

FOOTNOTES:

1. **Sampling** – Sampling for all parameters (with the seasonal exception of BOD_5, TSS, total residual chlorine and fecal coliform bacteria) must be conducted after the Parshall flume. Seasonal sampling (May 15th through September 30th) for BOD_5, TSS, total residual chlorine and fecal coliform bacteria must be conducted *after the last process treatment and at the Department approved sampling location* at the Bayview Pump Station. Any change in sampling location must be approved by the Department in writing. The permittee must conduct sampling and analysis in accordance with; a) methods approved by 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis must be analyzed by a laboratory certified by the State of Maine's Department of Health and Human Services for wastewater. Samples that are sent to a Publicly Owned Treatment Works (POTW) licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (effective April 1, 2010). 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 DMR.

2. **Percent Removal** − The treatment facility must maintain a minimum of 85 percent removal of both total suspended solids and biochemical oxygen demand for all flows receiving secondary treatment. The percent removal must be based on monthly average influent and effluent concentration values.

3. **Fecal coliform bacteria –** Limits apply on a seasonal basis (April 15 – October 30). The monthly fecal coliform average limitation is a **geometric mean** limitation and results must be calculated and reported as such.

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

5. **Mercury** – The permittee must conduct all mercury sampling required by this permit or required to determine compliance with interim limitations established pursuant to 06-096 CMR 519 in accordance with the USEPA's "clean sampling techniques" found in USEPA Method 1669, *Sampling Ambient Water For Trace Metals At EPA Water Quality Criteria Levels*. All mercury analysis must be conducted in accordance with USEPA Method 1631, *Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry.* See **Attachment A** for a Department report form for mercury test results.

SPECIAL CONDITIONS

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

FOOTNOTES:

Compliance with the monthly average limitation established in Special Condition A.1 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.

6. **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 3.7% and 2.0% respectively), which provides a point estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOELC. A-NOEL is defined as the acute no observed effect level with survival as the endpoint. C-NOEL is defined as the chronic no observed effect level with fertilization for the sea urchin as the endpoint. The critical acute and chronic thresholds were derived as the mathematical inverse of the applicable acute and chronic dilution factors of 27:1 and 50:1, respectively. See **Attachment B** of this permit for a copy of the Department's WET reporting form.

   a. **Screening-level testing** − Beginning 24 months prior to permit expiration and lasting through 12 months prior to permit expiration (Year 4 of the term of the permit) and every five years thereafter if a timely request for renewal has been made and the permit continues in force, or is replaced by a permit renewal containing this requirement, the permittee must conduct screening level WET testing at a minimum frequency of twice per year (2Year). Acute tests must be conducted on the mysid shrimp (*Americamysis bahia*); chronic tests must be conducted on the sea urchin (*Arbacia punctulata*). Testing must be conducted in a different calendar quarter each sampling event.

   b. **Surveillance-level testing** – Beginning upon permit issuance and lasting through 24 months prior to permit expiration (Years 1, 2 & 3 of the term of the permit) and commencing again 12 months prior to permit expiration (Year 5 of the term of the permit), the permittee must conduct surveillance level WET testing at a minimum frequency of once every year (1/2 Year). Acute tests must be conducted on the mysid shrimp (*Americamysis bahia*). Chronic tests must be conducted on the sea urchin (*Arbacia punctulata*). Testing must be conducted in a different calendar quarter each sampling event.

   WET test results must be submitted to the Department no later than the next DMR required by the permit, provided, however, the permittee may review the toxicity reports for up to 10 business days after receiving the test results from the laboratory conducting the testing before submitting them. The permittee must evaluate test results being submitted and identify to the Department possible exceedences of the critical acute and chronic water quality thresholds of 3.7% and 2.0%, respectively. See **Attachment B** of this permit for WET reporting forms.

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SPECIAL CONDITIONS

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

FOOTNOTES:

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.

a. U.S. Environmental Protection Agency. 2002. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organism*s, 5th ed. USEPA 821-R-02-012. U.S. Environmental Protection Agency, Office of Water, Washington, D.C., October 2002 (the acute method manual);

b. U.S. Environmental Protection Agency. 2002. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organism*s, 3rd ed. EPA 821-R-02-014. U.S. Environmental Protection Agency, Office of Water, Washington, D.C., October 2002 (the marine chronic method manual).

Results of WET tests must be reported on the "*Whole Effluent Toxicity Report Marine Waters*" form included as **Attachment B** of this permit each time a WET test is performed. Each time a WET test is performed, the permittee must sample and analyze for the parameters in the WET Chemistry and the Analytical Chemistry sections of the Department form entitled, *Maine Department of Environmental Protection, WET and Chemical Specific Data Report Form* included as **Attachment C** of this permit.

7. Analytical chemistry – Refers to a suite of chemicals in **Attachment C** of this permit.

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

b. **Surveillance-level testing** – Beginning upon permit issuance and lasting through 24 months prior to permit expiration (Years 1, 2 & 3 of the term of the permit) and commencing again 12 months prior to permit expiration (Year 5 of the term of the permit), the permittee must conduct analytical chemistry testing at a minimum frequency of once every two years (reduced testing), except for those analytical chemistry parameter(s) otherwise regulated in this permit. Tests must be conducted in different calendar quarters.

8. **Priority pollutant testing** – Priority pollutants are those parameters listed in **Attachment C** of this permit.

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

SPECIAL CONDITIONS

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

b. **Surveillance-level testing** – Beginning upon permit issuance and lasting through 24 months prior to permit expiration (Years 1, 2 & 3 of the term of the permit) and commencing again 12 months prior to permit expiration (Year 5 of the term of the permit), the permittee must conduct analytical chemistry testing at a minimum frequency of once every other year (1/2 Years). As with WET testing, testing must be conducted in a different calendar quarter of each year.

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

Test results must be submitted to the Department not later than the next 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 Ambient Water Quality Criteria (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 "N9" 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 by the classification of the receiving waters.

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

3. The permittee must not discharge effluent that imparts color, taste, turbidity, toxicity, radioactivity or other properties which cause those waters to be unsafe for the designated uses and characteristics ascribed to their classification.

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

C. TREATMENT PLANT OPERATOR

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

SPECIAL CONDITIONS

D. LIMITATIONS FOR INDUSTRIAL USERS

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

E. AUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with: 1) the permittee's General Application for Waste Discharge Permit, accepted for processing on January 12, 2018; 2) the terms and conditions of this permit; and 3) only from Outfall #001 and #001A. Discharges of wastewater from any other point source(s) are not authorized under this permit, and must be reported in accordance with Standard Condition D(1)(f), *Twenty-four hour reporting*, of this permit.

F. PUMP STATION EMERGENCY OVERFLOWS

Discharges from emergency overflow structures in pump stations are not authorized by this permit. The permittee must make provisions to monitor the pump stations listed below via an electronic flow estimation system to record frequency, duration and estimation of flow discharged. An electronic device utilized to measure levels in the wet well and measure duration of the overflow is an acceptable methodology for determining quantity. Discharges from the pump station must be reported in accordance with Standard Condition B(5), *Bypasses*, of this permit.

Outfall Number	Outfall Location	Receiving Water and Class
002	Bay View Street	Camden Harbor, SB
003	Rawson Avenue	Megunticook River, B
004	Sea Street	Camden Harbor, SB

G. NOTIFICATION REQUIREMENT

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

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

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

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SPECIAL CONDITIONS

G. NOTIFICATION REQUIREMENT (cont'd)

3. For the purposes of this section, notice regarding substantial change must include information on:

   a. the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and

   b. any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

H. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY

During the effective period of this permit, the permittee is authorized to **receive** and **introduce** into the treatment process or solids handling stream up to **a daily maximum of 1,500 gallons per day** of transported wastes, subject to the following terms and conditions:

1. "Transported wastes" means any liquid non-hazardous waste delivered to a wastewater treatment facility by a truck or other similar conveyance that has different chemical constituents or a greater strength than the influent described on the facility's application for a waste discharge license. Such wastes may include, but are not limited to septage, industrial wastes or other wastes to which chemicals in quantities potentially harmful to the treatment facility or receiving water have been added.

2. The character and handling of all transported wastes received must be consistent with the information and management plans provided in application materials submitted to the Department.

3. At no time must the addition of transported wastes cause or contribute to effluent quality violations. Transported wastes may not cause an upset of or pass through the treatment process or have any adverse impact on the sludge disposal practices of the wastewater treatment facility. Wastes that contain heavy metals, toxic chemicals, extreme pH, flammable or corrosive materials in concentrations harmful to the treatment operation must be refused. Odors and traffic from the handling of transported wastes may not result in adverse impacts to the surrounding community. If any adverse effects exist, the receipt or introduction of transported wastes into the treatment process or solids handling stream must be suspended until there is no further risk of adverse effects.

4. The permittee must maintain records for each load of transported wastes in a daily log which must include at a minimum the following:

   (a) The date;
   (b) The volume of transported wastes received;
   (c) The source of the transported wastes;
   (d) The person transporting the transported wastes;
   (e) The results of inspections or testing conducted;
   (f) The volumes of transported wastes added to each treatment stream; and
   (g) The information in (a) through (d) for any transported wastes refused for acceptance.

   These records must be maintained at the treatment facility for a minimum of five years.

SPECIAL CONDITIONS

H. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY (cont'd)

5. The addition of transported wastes into the treatment process or solids handling stream must not cause the treatment facilities design capacity to be exceeded. If, for any reason, the treatment process or solids handling facilities become overloaded, introduction of transported wastes into the treatment process or solids handling stream must be reduced or terminated in order to eliminate the overload condition.

6. Holding tank wastewater from domestic sources to which no chemicals in quantities potentially harmful to the treatment process have been added must not be recorded as transported wastes but should be reported in the treatment facility's influent flow.

7. During wet weather events, transported wastes may be added to the treatment process or solids handling facilities only in accordance with a current Wet Weather Flow Management Plan approved by the Department pursuant to Special Condition I that provides for full treatment of transported wastes without adverse impacts.

8. In consultation with the Department, chemical analysis is required prior to receiving transported wastes from new sources that are not of the same nature as wastes previously received. The analysis must be specific to the type of source and designed to identify concentrations of pollutants that may pass through, upset or otherwise interfere with the facility's operation.

9. The authorization is subject to annual review and, with notice to the permittee and other interested parties of record, may be suspended or reduced by the Department as necessary to ensure full compliance with Chapter 555 of the Department's rules and the terms and conditions of this permit.

I. WET WEATHER MANAGEMENT PLAN

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

The plan must conform to Department guidelines for such plans and must include operating procedures for a range of intensities, address solids handling procedures (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

J. OPERATIONS AND MAINTENANCE 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.

K. 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 D** of the permit for an acceptable certification form to satisfy this Special Condition.

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

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

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

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.

This space intentionally left blank

SPECIAL CONDITIONS

L. 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 Discharge Monitoring Reports (DMRs) submitted using the USEPA NetDMR system, must be:

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

Documentation submitted in support of the electronic DMR may be attached to the electronic DMR. Toxics reporting must be done using the DEP toxsheet reporting form. An electronic copy of the Toxsheet reporting document must be submitted to your Department compliance inspector as an attachment to an email. In addition, a hardcopy form of this sheet must be signed and submitted to your compliance inspector, or a copy attached to your NetDMR submittal will suffice.

Documentation submitted electronically to the Department in support of the electronic DMR must be submitted no later than midnight on the 15th day of the month following the completed reporting period.

Non-electronic Reporting

If you have received a waiver from the Department concerning the USEPA electronic reporting rule, or are permitted to submit hardcopy DMR's to the Department, then your monitoring results obtained during the previous month must be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and **postmarked on or before the thirteenth (13th) day of the month or hand-delivered to a Department Regional Office such that the DMR's are received by the Department on or before the fifteenth (15th) day of the month** following the completed reporting period.

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

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

Department of Environmental Protection
Bureau of Water Quality
Division of Water Quality Management
State House Station 17
Augusta, Maine 04333-0017

SPECIAL CONDITIONS

L. MONITORING AND REPORTING (cont'd)

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

M. REOPENING OF PERMIT FOR MODIFICATION

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

N. SEVERABILITY

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

ATTACHMENT A

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

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION
WHOLE EFFLUENT TOXICITY REPORT
MARINE 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**

	mysid shrimp	**sea urchin**
A-NOEL		
C-NOEL		

A-NOEL	
C-NOEL	

	% survival	**% fertilized**
QC standard	**>90**	**>70**
lab control		
receiving water control		
conc. 1 (%)		
conc. 2 (%)		
conc. 3 (%)		
conc. 4 (%)		
conc. 5 (%)		
conc. 6 (%)		
stat test used		

brine	
sea salt	
other	

place * next to values statistically different from controls

	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 (Marine Version), March 2007."

ATTACHMENT C

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)	m		

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.

MARINE AND ESTUARY 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]**		
	WHOLE EFFLUENT TOXICITY		Acute	Chronic			WET Result, % Do not enter % sign	Reporting Limit Check	Acute	Chronic	
	Mysid Shrimp										
	Sea Urchin										
	WET CHEMISTRY										
	pH (S.U.) (9)										
	Total Organic Carbon (mg/L)					NA					
	Total Solids (mg/L)					NA					
	Total Suspended Solids (mg/L)					NA					
	Salinity (ppt.)										
	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
This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.

	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
This form is for reporting laboratory data and facility information. Official compliance reviews will be done by DEP.

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:

ATTACHMENT D

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.

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
MAINE WASTE DISCHARGE LICENSE

FACT SHEET

DATE: **November 7, 2018**

PERMIT NUMBER: **ME0100137**
WASTE DISCHARGE LICENSE: **W002592-6D-I-R**

NAME AND ADDRESS OF APPLICANT: **TOWN OF CAMDEN**
P.O. BOX 1207
CAMDEN, ME 04843

COUNTY: **KNOX COUNTY**

NAME AND ADDRESS WHERE DISCHARGE(S) OCCUR(S):
TOWN OF CAMDEN
WATER POLLUTION CONTROL FACILITY
20 LIONS LANE
CAMDEN, MAINE 04843

RECEIVING WATER CLASSIFICATION: **CAMDEN HARBOR/CLASS SB**

COGNIZANT OFFICIAL CONTACT INFORMATION:
Mr. David Bolstridge
(207)-236-7955
dbolstridge@camdenmaine.gov

1. APPLICATION SUMMARY

On January 12, 2018, the Department of Environmental Protection (Department) accepted as complete for processing, a renewal application from the Town of Camden (Town)for the renewal of Waste Discharge License (WDL) W002592-6D-H-R/Maine Pollutant Discharge Elimination System (MEPDES) permit ME010037, which was issued on August 5, 2013, for a five-year term. The 8/5/13 MEPDES permit authorized the Town to discharge of a monthly average flow of 1.21 million gallons per day (MGD) of secondary treated municipal wastewater from a publicly owned treatment works facility to Camden Harbor, Class SB, in Camden, Maine.

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2. PERMIT SUMMARY

a. This permitting action is carrying forward all the terms and conditions of the previous permitting action except that this permitting action is:

1. This permitting action is changing the Daily Maximum discharge limitations for Whole Effluent Toxicity Testing (WET) from 3.7% and 2% to Report, based on the past 60 months of testing data.

2. Establishes effluent monitoring and reporting requirements for total nitrogen (nitrate and nitrite as nitrogen and total Kjehldahl nitrogen as nitrogen).

3. Establishes a new monitoring period for Fecal coliform bacteria from April 15th - October 31st.

b. History: This section provides a summary of significant licensing actions and milestones that have been completed for the Town of Camden Water Pollution Control Facility.

May 25, 2000 – The Department administratively modified WDL #W002592-5L-D-R by establishing interim limits for the discharge of mercury.

January 12, 2001 – The Department received authorization from the United States Environmental Protection Agency (USEPA) to administer the National Pollution Discharge Elimination System (NPDES) permitting program in Maine, excluding areas of special interest to Maine Indian Tribes. From this point forward, the program has been referred to as the Maine Pollutant Discharge Elimination System (MEPDES) program, and MEPDES permit #ME0100137 has been utilized for this facility. On March 26, 2011, the USEPA authorized the Department to administer the MEPDES program in Indian territories of the Penobscot Nation and Passamaquoddy Tribe.

July 29, 2008 – The Department issued combination WDL #W002592-5L-F-R/MEPDES permit #ME0100137 for a five-year term. The July 29, 2008 permit superseded previous WDLs issued on May 1, 2003, September 28, 1999, and September 30, 1997.

February 6, 2012 – The Department issued a modification of MEPDES permit #ME0100137/WDL #W002592-5L-F-R for a reduction in the mercury testing frequency for total mercury from 4/Year to 1/Year based on *Certain deposits and discharges prohibited*, 38 M.R.S. § 420(1-B)(F).

May 28, 2013 – The Department issued combination MEPDES permit #ME0100137/WDL #W002592-6D-H-R for a five year term.

January 11, 2018 – The Town submitted a timely and complete application to the Department for the renewal of combination MEPDES permit #ME0100137/WDL #W002592-6D-H-R issued on 8/5/2013.

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2. PERMIT SUMMARY (cont'd)

c. Source Description: Wastewater flows received at the Town's wastewater treatment facility are generated by residential and light commercial entities within the Town of Camden and portions of the Town of Rockport. Approximately 4,600 gallons per day of sanitary wastewater is trucked from the Mountainside Trailer Park to the Town's Mt. Battie Pump Station. The facility receives an average of 50,000 gallons per day of leachate from Mid Coast Solid Waste Cooperative and 80 gallons per day of process wastewater from Intricon/Tibbets Company. It is noted that the facility no longer receives contaminated stormwater from the Jacobs Quarry North. The facility is also permitted to receive up to a daily maximum flow of 1, 500 gallons of septage. The septage is received from a manhole located just upstream of the facility's comminutor and grit chamber. The facility's collection system is approximately 17 miles in length, has seven pump stations and is a separated system with no combined sewer overflows (CSOs).

Since the last permit application was filed the Sea Street Pump Station has been upgraded with new pumps, valve controls, and generator. The Mt. Battie Street Pump Station was also upgraded with new pumps and controls.

The permittee has indicated that three of the seven pump stations have provisions for emergency bypasses of untreated wastewater. These emergency bypasses are not authorized by this permit. Special Condition F, *Pump Station Emergency Bypasses*, lists the individual pump stations and requires the permittee to track frequency of discharge occurrences and measure or estimate the quantity of discharge events. During extended periods of wet weather, the facility receives significant inflow and infiltration.

d. Wastewater Treatment: The facility is capable of secondary level treatment via a comminutor, an aerated grit chamber, four aeration basins with a fine-bubble diffused aeration system, two circular secondary clarifiers, two aerobic digesters and an outfall pipe utilized as a chlorine contact structure for disinfection. The facility is currently utilizing one-half of the available treatment units. In mid to late 2007, the facility's mechanical aerators in the aerobic sludge digesters were replaced with fine-bubble diffusers; the two secondary clarifiers were re-built and a new blower system for the sludge digesters was installed. During extended wet weather/high flow periods, additional treatment units are put on-line as needed. Over the past three years, the facility experienced 2-3 instances of high flows per year. See **Attachment A** of this Fact Sheet for a schematic of the treatment process.

The facility uses sodium hypochlorite for disinfection and dechlorinates using sodium bisulfite. The outfall consists of a 24-inch diameter ductile iron pipe extending out into the harbor approximately 250 feet with a diffuser consisting of 3 cast iron ports, two measuring 12 inches in diameter, one measuring 8 inches in diameter. The permittee has indicated that the diffuser ports are located in approximately 12 feet of water at mean low tide and 25 feet of water at high tide. See **Attachment B** of this Fact Sheet for a diagram of the outfall piping.

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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 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 *Surface Water Toxic Control Program*, require the regulation of toxic substances not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants*, 06-096 CMR 584 (effective July 29, 2012), and that ensure safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected.

4. RECEIVING WATER QUALITY STANDARDS

Classifications of estuarine and marine waters, 38 M.R.S.. § 469(3) classifies Camden Harbor at the point of discharge as a Class SB waterway. *Standards for classification of estuarine and marine waters*, 38 M.R.S.. § 465-B(2) describes the standards for classification for Class SB waters.

5. RECEIVING WATER QUALITY CONDITIONS

The State of Maine 2014 Integrated Water Quality Monitoring and Assessment Report, prepared pursuant to Sections 303(d) and 305(b) of the Federal Water Pollution Control Act, lists the marine waters at the permittee's outfall as, *Category 4-A(b), Estuarine and Marine Waters with Impaired Use, TMDL Completed (TMDL completed for listed causes and bacteria from combined sewer overflows).* The impairment may be either recreational uses (swimming) or shellfish consumption or both. Shellfish consumption impairments only apply to waters naturally capable of supporting the shellfish harvesting use (i.e. waters of high enough salinity for propagation of shellfish).

The Maine Department of Marine Resources (MEDMR) closes shellfish harvesting areas if there are known sources of discharges with unacceptable bacteria levels (thresholds established in the National Shellfish Sanitation Program) or maintains shellfish harvesting closure areas due to lack of updated information regarding ambient water quality conditions and current shoreline surveys. In addition, the MEDMR prohibits shellfish harvesting in the immediate vicinity of all wastewater treatment outfall pipes as a precautionary measure in the event of a failure in the treatment plant's disinfection system. Thus, shellfish harvesting area #31-A is closed to the harvesting of shellfish. The shellfish closure area can be found at http://www.maine.gov/dmr/shellfish-sanitation-management/closures/pollution.html.

Category 5-D*: Estuarine and Marine Waters Impaired by Legacy Pollutants*. All estuarine and marine waters capable of supporting American lobster are listed in Category 5-D, partially supporting fishing ("shellfish" consumption) due to elevated levels of polychlorinated biphenyls (PCBs) and other persistent, bioaccumulating substances in lobster tomalley. The permittee will not cause or contribute to the failure of the receiving waters to meet the standards of its designated classification.

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6. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

a. Flow: The previous permitting action established, and this permitting action is carrying forward a monthly average flow limitation of 1.21 MGD as it remains representative of the monthly average design capacity of the facility.

The Department reviewed 51 Discharge Monitoring Reports (DMRs) that were submitted for the period August 2013 – January 2018. A review of the data indicates the following:

Flow (DMRs=51)

Value	Limit MGD	Range MGD	Mean MGD
Monthly Average	1.21	0.38 – 1.48	0.78
Daily Maximum	Report	0.44 – 3.42	1.7

b. Dilution Factors: 06-096 CMR 530(4)(A)(2)(a) states that, *"For discharges to the ocean, dilution must be calculated as near-field or initial dilution, or that dilution available as the effluent plume rises from the point of discharge to its trapping level, at mean low water level and slack tide for the acute exposure analysis, and at mean tide for the chronic exposure analysis using appropriate models determined by the Department such as MERGE, CORMIX or another predictive model."* Based on the configuration of Outfall #001 and a monthly average discharge flow design criterion of 1.21 million gallons per day (MGD), dilution factors associated with the discharge of secondary treated wastewaters via Outfall #001 are as follows:

Acute = 27:1 Chronic = 50:1 Harmonic mean[(1)] = 150:1

Notes:

[1]The harmonic mean dilution factor is approximated by multiplying the chronic dilution factor by three (3). This multiplying factor is based on guidelines for estimation of human health dilution presented in the U.S. EPA publication, "*Technical Support Document for Water Quality-Based Toxics Control"* (Office of Water; USEPA/505/2-90-001, page 88), and represents an estimation of harmonic mean flow on which human health dilutions are based in a riverine 7Q10 flow situation.

c. Biochemical Oxygen Demand (BOD_5) & Total Suspended Solids (TSS): The previous permitting action established, and this permitting action is carrying forward, monthly and weekly average technology-based concentration limits of 30 mg/L and 45 mg/L, respectively, for BOD_5 and TSS based on the secondary treatment requirements specified at *Effluent Guidelines and Standards*, 06-096 CMR 525(3)(III) (effective January 12, 2001), and a daily maximum concentration limit of 50 mg/L, which is based on a Department best professional judgment (BPJ) of best practicable treatment (BPT) for secondary treated wastewater. The technology-based monthly, weekly, and daily average mass limits of 303 lbs./day, 454 lbs./day and 505 lbs./day, established in the previous permitting action for BOD_5 and TSS are based on the monthly average flow design criterion of 1.21 MGD. The applicable concentration limits are also being carried forward in this permitting action. This permitting action is carrying forward a requirement for a minimum of 85% removal of BOD_5 & TSS pursuant to 06-096 CMR 525(3)(III)(a&b)(3) along with a 1/Month monitoring frequency.

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

The Department reviewed 51 DMRs that were submitted for the period August 2013 – January 2018. A review of the data indicates the following:

BOD_5 Mass (DMRs=51)

Value	Limit (lbs./day)	Range (lbs./day)	Average (lbs./day)
Monthly Average	303	33-252	77
Weekly Average	454	47-441	124
Daily Maximum	505	51-441	124

BOD_5 Concentration (DMRs=51)

Value	Limit (mg/L)	Range (mg/L)	Average (mg/L)
Monthly Average	30	6.6-30	13
Weekly Average	45	8.0-44	18
Daily Maximum	50	8.0-44	18

TSS mass (DMRs=51)

Value	Limit (lbs./day)	Range (lbs./day)	Average (lbs./day)
Monthly Average	303	22-168	53
Weekly Average	454	28-359	94
Daily Maximum	505	31-359	95

TSS concentration (DMRs=51)

Value	Limit (mg/L)	Range (mg/L)	Average (mg/L)
Monthly Average	30	4-20	9
Weekly Average	45	5-47	15
Daily Maximum	50	5-47	15

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

The Department reviewed 51 DMRs that were submitted for the period 2013 – 2018. A review of data indicates the following:

Settleable solids concentration (DMRs=51)

Value	Limit (ml/L)	Range (ml/L)	Average (ml/L)
Daily Maximum	0.3	0.1 − 0.3	0.11

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

e. Fecal Coliform Bacteria – The previous permitting action established, and this permitting action is carrying forward, seasonal (May 15 – September 30) monthly average and daily maximum limits of 15 colonies/100 mL and 50 colonies/100 mL respectively, for fecal coliform bacteria, which are consistent with the National Shellfish Sanitation Program. Bacteria limits are seasonal and apply between May 15 and September 30 of each year, however, the Department reserves the right to require year-round disinfection to protect the health, safety and welfare of the public.

The Department reviewed 21 DMRs that were submitted for the period 2013 – 2018. A review of data indicates the following:

Fecal coliform bacteria (DMRs=21)

Value	Limit (col/100 ml)	Range (col/100 ml)	Mean (col/100 ml)
Monthly Average	15	2−17	9
Daily Maximum	50	2−30	19

f. Total Residual Chlorine (TRC) − The previous permitting action established technology-based monthly average and water quality-based daily maximum concentration limits of 0.1 mg/L and 0.3 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 permitting actions impose the more stringent of either a water quality-based or BPT-based limit. With dilution factors as determined above, end-of-pipe (EOP) water quality-based concentration thresholds for TRC must be calculated as follows:

Acute (A) Criterion	Chronic (C) Criterion	A & C Dilution Factors	Acute Threshold	Chronic Threshold
0.013 mg/L	0.0075 mg/L	27:1 (A) 50:1 (C)	0.35 mg/L	0.38 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 to meet water quality-based thresholds, the Department has established daily maximum and monthly average BPT limits of 0.3 mg/L and 0.1 mg/L, respectively. The facility dechlorinates the effluent prior to discharge to achieve compliance with the water quality-based thresholds.

Because the facility needs to dechlorinate the discharge to comply with the calculated water quality thresholds, this permitting action is carrying forward the daily maximum and monthly average BPT limitations of 0.3 mg/L and 0.1 mg/L, respectively, as these technology-based limits are more stringent than the water quality-based limit calculated above.

Total residual chlorine (DMRs=21)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	0.3	0.05 – 0.30	0.12
Monthly Average	0.1	0.05 – 0.07	0.06

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

g. pH – The previous permitting action established, and this permitting action is carrying forward a technology-based pH limit of 6.0 – 9.0 standard units (SU), which is based on 06-096 CMR 525(3)(III), and a minimum monitoring frequency requirement of five times per week.

The Department reviewed 51 DMRs that were submitted for the period 2013 − 2018. A review of data indicates the following:

pH (DMRs=51)

Value	Limit (SU)	Minimum (SU)	Maximum (SU)
Range	6.0 – 9.0	6.2	7.5

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

WET, priority pollutant and analytical chemistry testing, as required by 06-096 CMR 530, is included in this permit to characterize the effluent. WET monitoring is required to assess and protect against impacts upon water quality and designated uses caused by the aggregate effect of the discharge on specific aquatic organisms. Acute and chronic WET tests are performed on the mysid shrimp *(Americamysis bahia)* and the sea urchin *(Arbacia punctulata).* 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 C** of the permit. Analytical chemistry refers to those pollutants listed under "Analytical Chemistry" on the form included as **Attachment C** 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 exceedances of narrative or numerical water quality criteria.

The Camden Water Pollution Control Facility discharges treated domestic (sanitary) wastewater to surface waters and is therefore subject to the testing requirements of the toxics rule.

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

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

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

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

Screening level testing

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

Surveillance level testing

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

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

> For effluent monitoring data and the variability of the pollutant in the effluent**,** the Department must apply the statistical approach in Section 3.3.2 and Table 3-2 of USEPA's "Technical Support Document for Water Quality-Based Toxics Control" (USEPA Publication 505/2-90-001, March, 1991, EPA, Office of Water, Washington, D.C.) to data to determine whether water-quality based effluent limits must be included in a waste discharge license. Where it is determined through this approach that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedance of water quality criteria, appropriate water quality-based limits must be established in any licensing action.

On March 19, 2018, the Department conducted a statistical evaluation on the most recent 60 months of WET test results on file with the Department for the Town in accordance with the statistical approach outlined above. The 3/19/18 statistical evaluation indicates that indicates that none of the results had a reasonable potential to exceed the chronic or acute ambient water quality threshold. See **Attachment D** of this Fact Sheet for a summary of the WET test results.

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

l. Analytical Chemistry & Priority Pollutant Testing Evaluation:

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

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

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

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

Chemical specific evaluation

As with WET test results, the Department conducted a statistical evaluation on February 12, 2018, for the most current 51 months of analytical chemistry and priority pollutant test results on file. The evaluation indicates the discharge did not exceeded any of the applicable acute AWQC thresholds. See **Attachment D** of this Fact Sheet for the individual test results.

j. Mercury: Pursuant to *Certain deposits and discharges prohibited*, 38 M.R.S. § 420 and *Waste Discharge Licenses*, 38 M.R.S. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001), the Department issued an interim average and daily maximum effluent concentration limits of 10.5 parts per trillion (ppt) and 15.7 ppt, respectively, and a minimum monitoring frequency requirement of two (2) tests per year for mercury. 38 M.R.S. § 420(1-B)(B)(1) provides that a facility is not in violation of the Ambient Water Quality Criteria (AWQC) for mercury if the facility is in compliance with an interim discharge limit established by the Department. A review of the Department's data base for the period October 1998 – February 2018 indicates the permittee has been in compliance with the interim limits for mercury as results have been reported as follows:

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

Mercury (DMRs=54)

Value	Limit (ng/L)	Range (ng/L)	Mean (ng/L)
Average	10.5	1.74 – 73.50	8.1
Daily Maximum	15.7		

The Department issued a minor revision on February 6, 2012, to the October 12, 2011, permit thereby revising the minimum monitoring frequency requirement from twice per year to once per year given the permittee has maintained at least 5 years of mercury testing data. Pursuant to 38 M.R.S. § 420(1-B)(F), this permitting action is carrying forward the 1/Year monitoring frequency established in the February 6, 2012, permit modification.

k. Nitrogen: The USEPA requested the Department evaluate the reasonable potential for the discharge of total nitrogen to cause or contribute to non-attainment of applicable water quality standards in marine waters, namely DO and marine life support. Currently there are no nitrogen discharge standards for the midcoast region, however Camden has volunteered to complete nitrogen compound testing as requested by DEP.

Based on the need for additional information regarding the receiving water body as well as the effluent, the Department has established a seasonal, effluent monitoring requirement for total nitrogen (TKN and NO_3+NO_2) so that it may accurately characterize the Camden POTW's contribution to the receiving water. The facility is aware that the Department will be collecting data in the summer of 2019 to further our understanding of the receiving water (ambient as well as downstream) and their contribution to it. The permittee is also aware that they must operate their facility to optimize nitrogen removal to the best of their ability.

The Department will review the results from these testing regimes and re-assess the overall condition of Camden Harbor and the relative influence of the Camden POTW's discharge. The Department reserves the right to reopen the permit to establish necessary limits as stated in permit Special Condition L. *Reopening of Permit for Modifications*, "the Department may, at any time and with notice to the permittee, modify this permit to: (include effluent limitations necessary to control specific pollutants."

7. DISPOSAL OF SEPTAGE WASTE IN WASTEWATER TREATMENT FACILITY

The previous permitting action authorized the District to receive and introduce up to 1,500 gpd of septage. 06-096 CMR 555, *Standards For The Addition of Transported Wastes to Wastewater Treatment Facilities,* limits the quantity of septage received at a facility to 1% of the design capacity of treatment facility if the facility utilizes a side stream or storage method of introduction into the influent flow, or 0.5% of the design capacity of the facility if the facility does not utilize the side stream or storage method of introduction into the influent flow. A facility may receive more than 1% of the design capacity on a case-by-case basis. In their application for permit renewal, the Town has requested the Department carry forward the daily quantity of transported waste it is authorized to receive and treat (up to 1,500 gpd) as it does utilize the side stream/storage method of metering wastes into the facility's influent flow. With a design capacity of 1.21 MGD, 1,500 gpd only represents 0.12% of said capacity.

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8. 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 or contribute to the failure of Camden Harbor to meet standards for Class SB classification.

9. PUBLIC COMMENTS

Public notice of this application was made in *The Camden Herald* newspaper on or about January 18, 2018. The Department receives public comments on an application until the date a final agency action is taken on the application. Those persons receiving copies of draft permits must have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to *Application Processing Procedures for Waste Discharge Licenses*, 06-096 CMR 522 (effective January 12, 2001).

10. DEPARTMENT CONTACTS

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

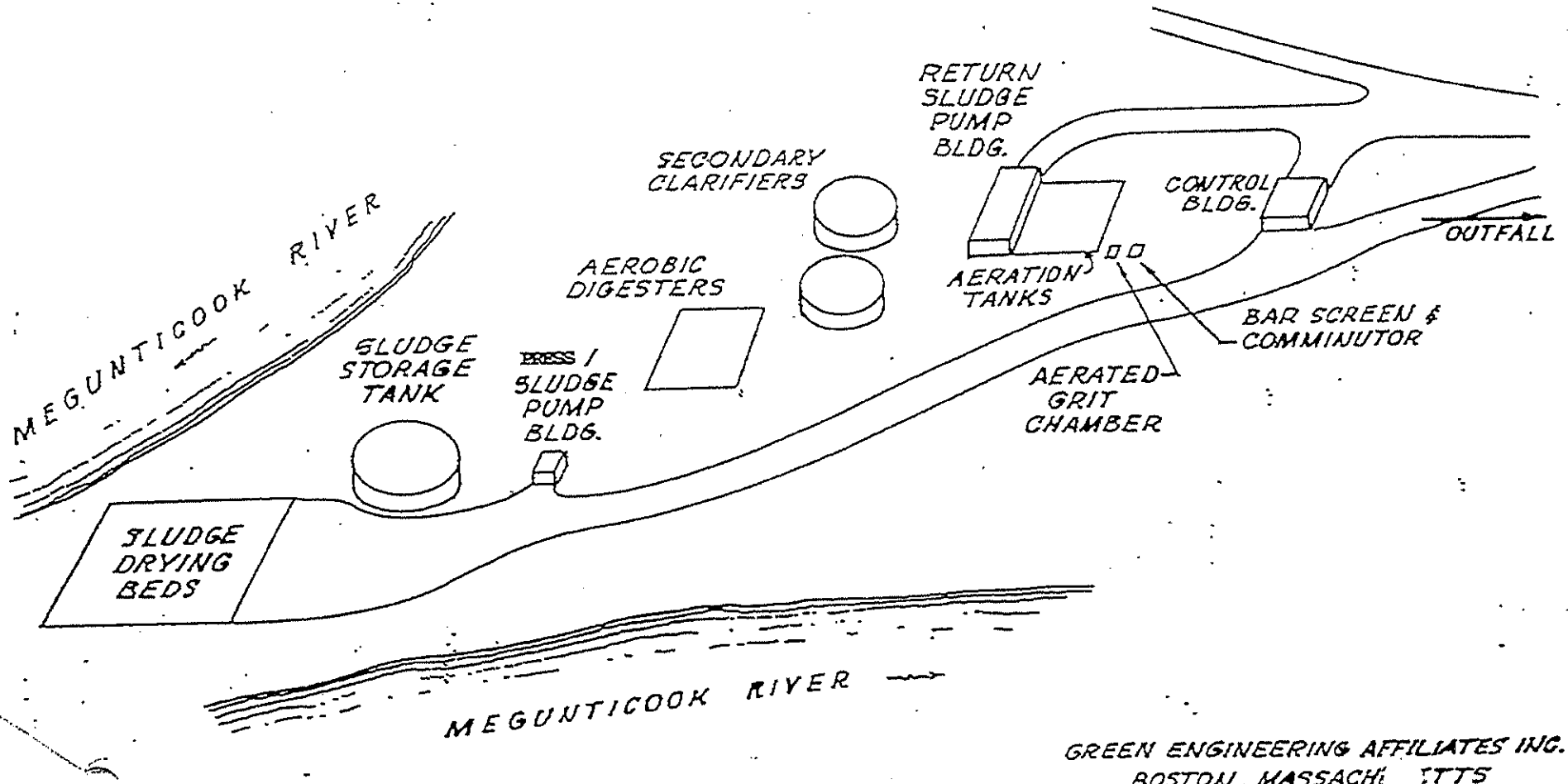
Aaron Dumont
Bureau of Water Quality
Department of Environmental Protection
17 State House Station
Augusta, Maine 04333-0017 Telephone: (207) 592-7161
e-mail: Aaron.A.Dumont@maine.gov

11. RESPONSE TO COMMENTS

Reserved until end of the comment period.

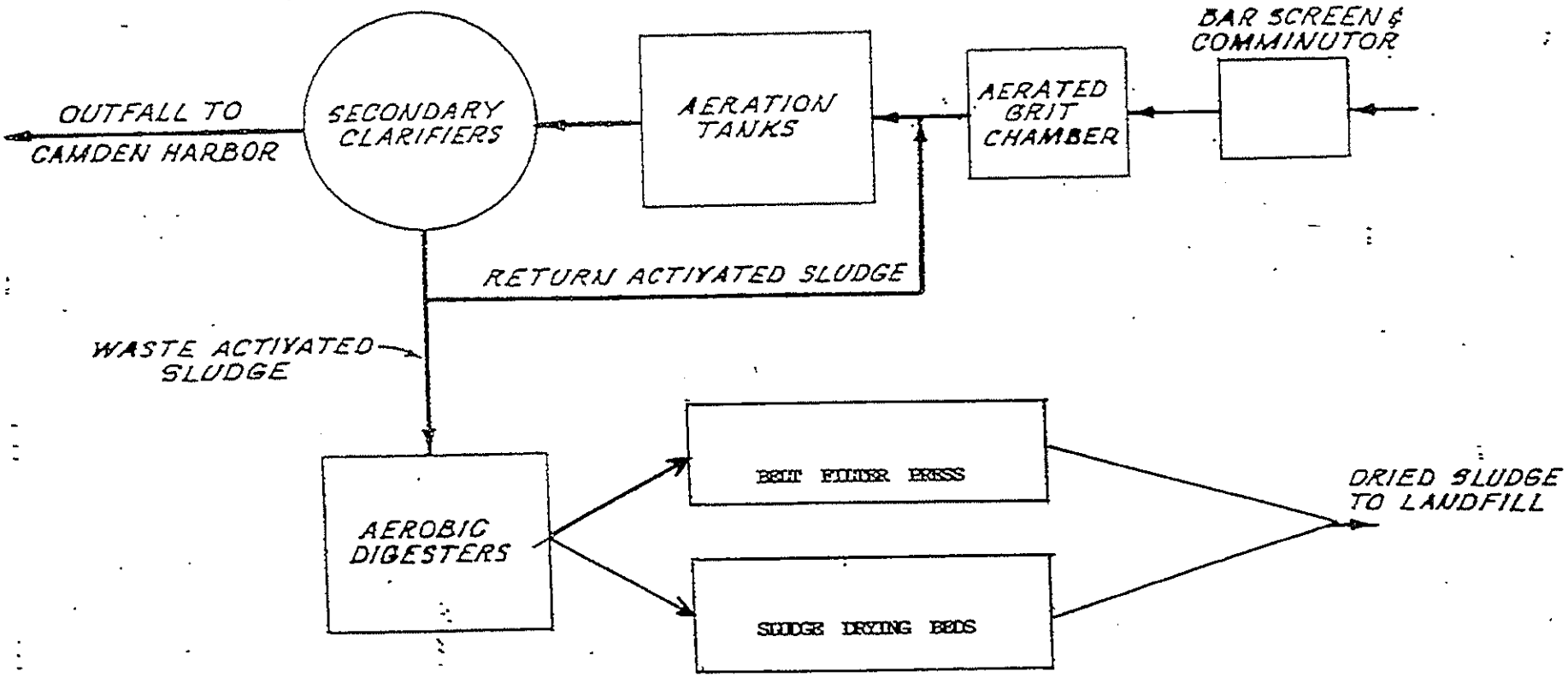
ATTACHMENT A

CAMDEN WATER POLLUTION CONTROL PLANT

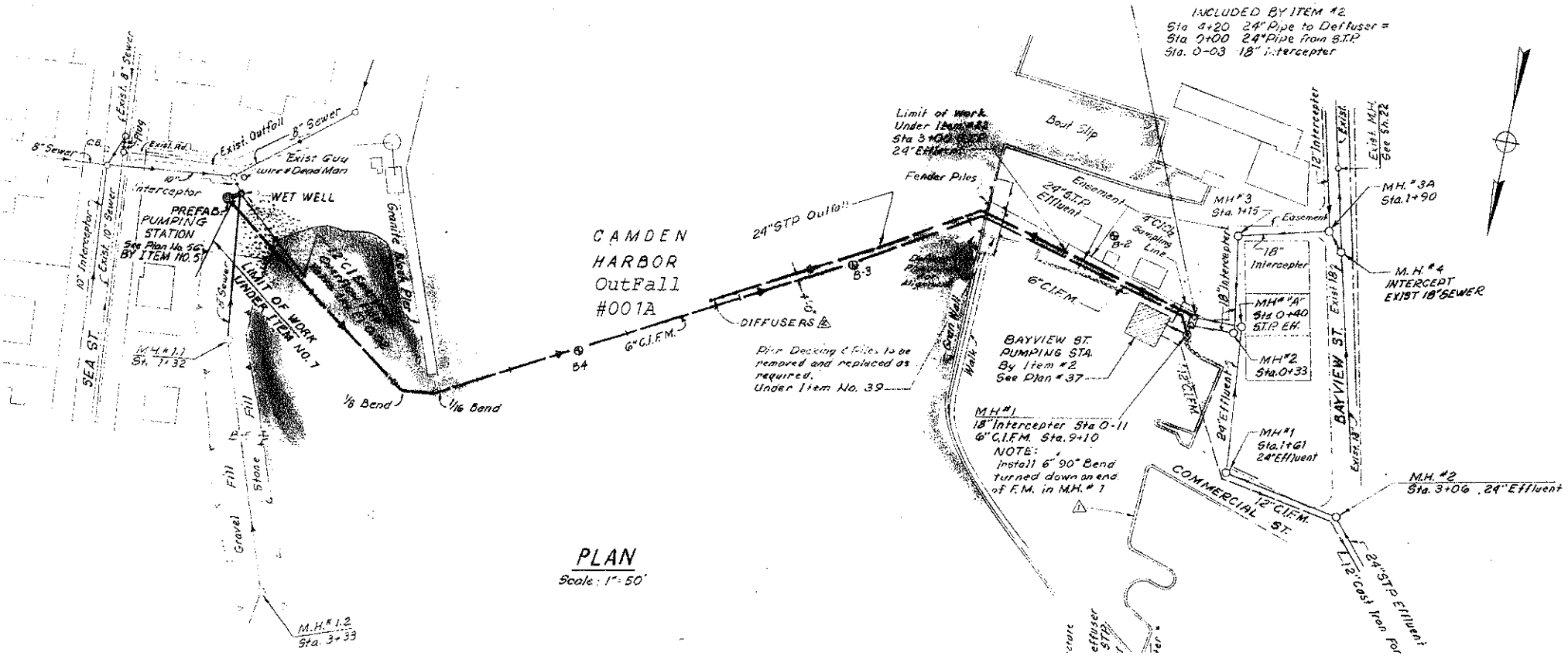


GREEN ENGINEERING AFFILIATES INC.
BOSTON, MASSACHUSETTS

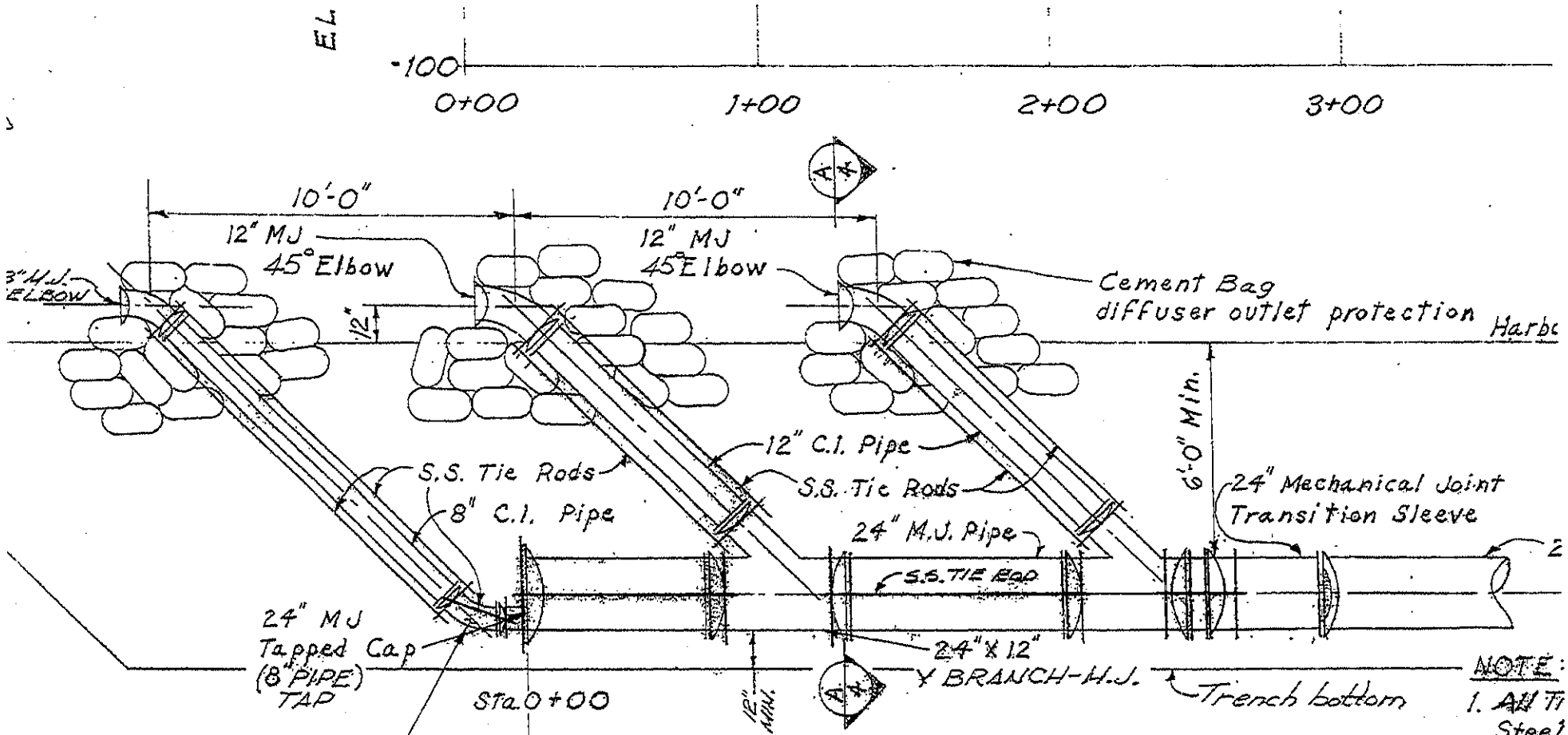
SCHEMATIC
CAMDEN, WATER POLLUTION CONTROL PROCESS



GREEN ENGINEERING AFFILIATES INC.
BOSTON, MASSACHUSETTS


CAMDEN
HARBOR
OutFall
#001A
PLAN
Scale: 1"=50'
SEA ST.
8" Sewer
C.B.
Exist. Outfall
Exist Guy wire & Dead Man
10" Interceptor
WET WELL
PREFAB. PUMPING STATION
See Plan No. 56 BY ITEM 110.51
Granite Rock Pier
LIMIT OF WORK UNDER ITEM NO. 7
Fill
Gravel
Stone
M.H. # 1.1 Sta. 1+32
M.H. # 1.2 Sta. 3+33
1/8 Bend
1/16 Bend
6" C.I.F.M.
B-4
B-3
B-2
DIFFUSERS
24" STP Outfall
Limit of Work Under Item #2 Sta 3+00
24" Effluent
Fender Piles
Boat Slip
Pier Decking & Piles to be removed and replaced as required. Under Item No. 39
Gas Main
BAYVIEW ST. PUMPING STA. By Item #2 See Plan #37
MH #1
18" Intercepter Sta 0-11
6" C.I.F.M. Sta. 9+10
NOTE: Install 6" 90° Bend turned down on end of F.M. in M.H. # 1
INCLUDED BY ITEM #2
Sta 4+20 24" Pipe to Defluser =
Sta 9+00 24" Pipe from S.T.P.
Sta. 0-03 18" Intercepter
Easement
MH # 3 Sta. 1+15
4" C.I.P. Sampling Line
12" Intercepter
Exist. M.H. See Sh. 22
MH # 3A Sta. 1+90
M.H. # 4 INTERCEPT EXIST 18" SEWER
18" Intercepter
MH # "A" Sta 0+40 S.T.P. Eff.
MH # 2 Sta. 0+33
BAYVIEW ST.
Exist. 18"
12" C.I.F.M.
24" Effluent
MH # 1 Sta. 1+61 24" Effluent
COMMERCIAL ST.
M.H. # 2 Sta. 3+06 24" Effluent
12" C.I.F.M.
24" STP Effluent
12" Cast Iron For
effuser STP

ATTACHMENT B



NOTE:
1. All Ti
Steel
2. Cemen
be a
voids

OUTFALL DIFFUSER DETAIL 2

Scale: 1/4" = 1'-0"

ATTACHMENT C

FACILITY WET EVALUATION REPORT

Facility: CAMDEN WWTP **Permit Number:** ME0100137 **Report Date:** 3/19/2018

Receiving Water: CAMDEN HARBOR **Rapidmix:** Y

Diluition Factors: 1/4 Acute: N/A Acute: 27.000 Chronic: 50

Effluent Limits: Acute (%): 3.704 Chronic (%): 2.000 **Date range for Evaluation: From** 19/Mar/2013 **To:** 19/Mar/2018

Test Type: A_NOEL

Test Species: MYSID SHRIMP

Test Date	Result (%)	Status
05/05/2013	100.000	OK
03/02/2014	100.000	OK
08/17/2015	100.000	OK
06/14/2016	100.000	OK
01/23/2017	100.000	OK
04/24/2017	72.500	OK
11/06/2017	100.000	OK

Species Summary:

Test Number: 7 **RP:** 2.000 **Min Result (%):** 72.500 **RP factor (%):** 36.250 **Status:** OK

Test Type: C_NOEL

Test Species: SEA URCHIN

Test Date	Result (%)	Status
05/05/2013	100.000	OK
03/02/2014	50.000	OK
08/17/2015	50.000	OK
06/14/2016	25.000	OK
01/23/2017	50.000	OK
04/24/2017	50.000	OK
11/06/2017	25.000	OK

Species Summary:

Test Number: 7 **RP:** 2.000 **Min Result (%):** 25.000 **RP factor (%):** 12.500 **Status:** OK

ATTACHMENT D

CHEMICAL EVALUATION REPORT (INDIVIDUAL)

2/12/2018

Report ID: 947 **Data Date Range:** 12/Feb/2013 - 12/Feb/2018

Facility: **CAMDEN WWTP** Permit Number: **ME0100137**

Receiving Water: **CAMDEN HARBOR** Fresh or Salt: **S** Complete Mix: **Y**

Dilution Factors: Acute: **27.0** Chronic: **50.0** Health: **150.0** Licensed Flow: **1.2**

Water Quality Assumptions: Reserve (%): **0.0** Background (%): **10.0** Temperature: **25.0**

Hardness: **20.0** PH: **7.0** Salinity: **30.0**

Historical Average Date: **12/Feb/2018**

Specific pollutants with reasonable potential: Number of parameters found = 10

Pollutant: **ALUMINUM** Reporting Limit: Sample Number: **11**

Coefficient of Variation: **0.6** Reasonable Potential Factor: **1.7**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

***** INDIVIDUAL RESULTS *****

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	65	0.59794	---	---	---
IN	0.5900	05/05/2013	68	0.3346	---	---	---
IN	0.3210	07/10/2013	65	0.17401	---	---	---
IN	0.6270	03/02/2014	12	0.06275	---	---	---
IN	0.4080	08/17/2015	20	0.06805	---	---	---
IN	0.6350	06/14/2016	39	0.20654	---	---	---
IN	0.7090	11/15/2016	24	0.14191	---	---	---
IN	0.6155	01/23/2017	16	0.08213	---	---	---
IN	0.7630	04/24/2017	20	0.12727	---	---	---
IN	0.3980	08/02/2017	65	0.21576	---	---	---
IN	0.5930	11/06/2017	35	0.1731	---	---	---

Pollutant: **AMMONIA** Reporting Limit: Sample Number: **11**

Coefficient of Variation: **0.4** Reasonable Potential Factor: **1.4**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	6700	61.63343	---	---	---
IN	0.5900	05/05/2013	10100	49.69806	---	---	---
IN	0.3210	07/10/2013	6700	17.93684	---	---	---
IN	0.6270	03/02/2014	10900	56.99806	---	---	---
IN	0.4080	08/17/2015	14600	49.67971	---	---	---
IN	0.6350	06/14/2016	9000	47.6631	---	---	---
IN	0.7090	11/15/2016	4300	25.42616	---	---	---
IN	0.6155	01/23/2017	9200	47.22608	---	---	---
IN	0.7630	04/24/2017	7300	46.45297	---	---	---
IN	0.3980	08/02/2017	5000	16.5966	---	---	---
IN	0.5930	11/06/2017	7400	36.59759	---	---	---

Pollutant: **ARSENIC** Reporting Limit: **5.0** Sample Number: **11**

Coefficient of Variation: **1.4** Reasonable Potential Factor: **2.7**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	3	0.0276	---	---	---
IN	0.5900	05/05/2013	10	0.04921	---	---	---
IN	0.3210	07/10/2013	3	0.00803	---	---	---
IN	0.6270	03/02/2014	<2	---	---	---	---
IN	0.4080	08/17/2015	4	0.01361	---	---	---
IN	0.6350	06/14/2016	<2	---	---	---	---
IN	0.7090	11/15/2016	3	0.01774	---	---	---
IN	0.6155	01/23/2017	<4	---	---	---	---
IN	0.7630	04/24/2017	<5	---	---	---	---
IN	0.3980	08/02/2017	<5	---	---	---	---
IN	0.5930	11/06/2017	30	0.14837	---	---	---

Pollutant: **CADMIUM** Reporting Limit: **1.0** Sample Number: **11**

Coefficient of Variation: **0.4** Reasonable Potential Factor: **1.4**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	<.2	---	---	---	---
IN	0.5900	05/05/2013	0.2	0.00098	---	---	---
IN	0.3210	07/10/2013	<.2	---	---	---	---
IN	0.6270	03/02/2014	1.1	0.00575	---	---	---
IN	0.4080	08/17/2015	<.2	---	---	---	---
IN	0.6350	06/14/2016	<.2	---	---	---	---
IN	0.7090	11/15/2016	<1	---	---	---	---
IN	0.6155	01/23/2017	0.6	0.00308	---	---	---
IN	0.7630	04/24/2017	<.6	---	---	---	---
IN	0.3980	08/02/2017	<.6	---	---	---	---
IN	0.5930	11/06/2017	<.6	---	---	---	---

Pollutant: **COPPER** Reporting Limit: **3.0** Sample Number: **11**

Coefficient of Variation: **0.8** Reasonable Potential Factor: **1.9**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	6	0.05519	---	---	---
IN	0.5900	05/05/2013	8	0.03936	---	---	---
IN	0.3210	07/10/2013	6	0.01606	---	---	---
IN	0.6270	03/02/2014	2	0.01046	---	---	---
IN	0.4080	08/17/2015	24	0.08167	---	---	---
IN	0.6350	06/14/2016	11	0.05825	---	---	---
IN	0.7090	11/15/2016	7	0.04139	---	---	---
IN	0.6155	01/23/2017	7	0.03593	---	---	---
IN	0.7630	04/24/2017	5	0.03182	---	---	---
IN	0.3980	08/02/2017	13	0.04315	---	---	---
IN	0.5930	11/06/2017	<3	---	---	---	---

Pollutant: **LEAD** Reporting Limit: **3.0** Sample Number: **11**

Coefficient of Variation: **1.2** Reasonable Potential Factor: **2.4**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	<1	---	---	---	---
IN	0.5900	05/05/2013	<1	---	---	---	---
IN	0.3210	07/10/2013	<1	---	---	---	---
IN	0.6270	03/02/2014	<1	---	---	---	---
IN	0.4080	08/17/2015	<1	---	---	---	---
IN	0.6350	06/14/2016	<1	---	---	---	---
IN	0.7090	11/15/2016	<3	---	---	---	---
IN	0.6155	01/23/2017	12	0.0616	---	---	---
IN	0.7630	04/24/2017	<3	---	---	---	---
IN	0.3980	08/02/2017	<3	---	---	---	---
IN	0.5930	11/06/2017	4.2	0.02077	---	---	---

Pollutant: **MERCURY** Reporting Limit: **0.0** Sample Number: **5**

Coefficient of Variation: **0.6** Reasonable Potential Factor: **2.3**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.2100	12/03/2013	0.00174	2E-05	---	---	---
IN	1.2100	10/15/2014	0.00286	3E-05	---	---	---
IN	1.2100	04/01/2015	0.00427	4E-05	---	---	---
IN	1.2100	01/26/2016	0.00194	2E-05	---	---	---
IN	1.2100	06/29/2017	0.00201	2E-05	---	---	---

Pollutant: **SELENIUM** Reporting Limit: **5.0** Sample Number: **3**

Coefficient of Variation: **0.6** Reasonable Potential Factor: **3.0**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	11	0.10119	---	---	---
IN	0.3210	07/10/2013	11	0.02945	---	---	---
IN	0.6155	01/23/2017	8	0.04107	---	---	---

Pollutant: **SILVER** Reporting Limit: **1.0** Sample Number: **11**

Coefficient of Variation: **0.5** Reasonable Potential Factor: **1.6**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

******* INDIVIDUAL RESULTS *******

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	<.3	---	---	---	---
IN	0.5900	05/05/2013	1.4	0.00689	---	---	---
IN	0.3210	07/10/2013	<.3	---	---	---	---
IN	0.6270	03/02/2014	0.3	0.00157	---	---	---
IN	0.4080	08/17/2015	1.1	0.00374	---	---	---
IN	0.6350	06/14/2016	1.2	0.00636	---	---	---
IN	0.7090	11/15/2016	0.7	0.00414	---	---	---
IN	0.6155	01/23/2017	<.8	---	---	---	---
IN	0.7630	04/24/2017	<.3	---	---	---	---
IN	0.3980	08/02/2017	<1.1	---	---	---	---
IN	0.5930	11/06/2017	<1	---	---	---	---

Pollutant: **ZINC** Reporting Limit: **5.0** Sample Number: **11**

Coefficient of Variation: **0.7** Reasonable Potential Factor: **1.8**

Historical Average: **N/A** RP Historical Average: **N/A**

Facility Allocation:	Acute	Chronic	Health
Pounds per day	N/A	N/A	N/A
Exceedence ug/L	---	---	---
RP ug/L	---	---	---

***** INDIVIDUAL RESULTS *****

					Exceedence or Reasonable Potential and Basis		
Flag	**Daily Flow**	**Date**	**Concentration**	**Mass**	**Acute**	**Chronic**	**Health**
IN	1.1030	03/10/2013	29	0.26677	---	---	---
IN	0.5900	05/05/2013	40	0.19682	---	---	---
IN	0.3210	07/10/2013	29	0.07764	---	---	---
IN	0.6270	03/02/2014	57	0.29806	---	---	---
IN	0.4080	08/17/2015	76	0.25861	---	---	---
IN	0.6350	06/14/2016	49	0.2595	---	---	---
IN	0.7090	11/15/2016	158	0.93426	---	---	---
IN	0.6155	01/23/2017	77	0.39526	---	---	---
IN	0.7630	04/24/2017	63	0.4009	---	---	---
IN	0.3980	08/02/2017	140	0.4647	---	---	---
IN	0.5930	11/06/2017	27	0.13353	---	---	---

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.