

STATE OF MAINE

Department of Environmental Protection

John Elias Baldacci GOVERNOR Beth Nagusky ACTING COMMISSIONER

December 13, 2010

Mr. Gregory Trundy Rumford-Mexico Sewerage District P.O. Box 160 Rumford, ME. 04276

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit #ME0100552 Maine Waste Discharge License (WDL) Application #W002686-6D-G-R Final Permit/License

Dear Mr. Trundy:

Enclosed please find a copy of your **final** Maine MEPDES/WDL which was approved by the Department of Environmental Protection. Please read the permit and its attached conditions carefully. You must follow the conditions in the order to satisfy the requirements of law. Any discharge not receiving adequate treatment is in violation of State Law and is subject to enforcement action.

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

If you have any questions regarding this matter, please feel free to call me at 287-7693.

Sincerely,

Gregg Wood Division of Water Quality Management Bureau of Land and Water Quality

Enc. Denise Behr, DEP/CMRO Sandy Mojica, USEPA



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

DEPARTMENT ORDER

IN THE MATTER OF

RUMFORD-MEXICO SEWERAGE DISTRICT) MAINE POLLUTANT DISCHARGE
MEXICO, OXFORD COUNTY, MAINE) ELIMINATION SYSTEM PERMIT
PUBLICLY OWNED TREATMENT WORKS) AND
ME0100552) WASTE DISCHARGE LICENSE
W002686-6D-G-R)
APPROVAL) RENEWAL

Pursuant to the provisions of the Federal Water Pollution Control Act, Title 33 USC, Section 1251, *et seq.* and Maine law, 38 M.R.S.A., Section 414-A *et seq.*, and applicable regulations, the Department of Environmental Protection (Department hereinafter) has considered the application of the RUMFORD-MEXICO SEWERAGE DISTRICT (District/permittee hereinafter), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

The District has submitted a timely and complete application to the Department for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit ME0100552/WDL W002686-5L-F R (permit hereinafter), which was issued by the Department on September 21, 2005, and expired on September 21, 2010. The 9/21/05 permit authorized the monthly average discharge of up to 2.65 million gallons per day (MGD) of secondary treated waste water to the Androscoggin River, Class C, in Mexico, Maine.

PERMIT SUMMARY

This permitting action is carrying forward all the terms and conditions of the 9/21/05 permitting action except that this permit is:

- 1. Reducing the monthly average (geometric mean) concentration limitation for *E. coli* bacteria based on a revised water quality standard.
- 2. Reducing the monitoring frequency for settleable solids from 1/Day to 5/Week given the excellent compliance history.
- 3. Establishing a requirement to submit an annual certification pursuant to Department rule Chapter 530, *Surface Water Toxics Control Program*.
- 4. Establishing monthly average and/or daily maximum water quality based mass and concentration limitations for aluminum, copper, lead and zinc as said parameters have a reasonable potential to exceed ambient water quality criteria established in Department rule, 06-096 CMR, *Surface Water Quality Criteria for Toxic Pollutants*.

CONCLUSIONS

BASED on the findings in the attached Fact Sheet dated October 28, 2010, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

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

ACTION

THEREFORE, the Department APPROVES the above noted application of the RUMFORD-MEXICO SEWERAGE DISTRICT to discharge a monthly average flow of up to 2.65 MGD of secondary treated waste water to the Androscoggin River, Class C, in Mexico, Maine, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations including:

- 1. "Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable To All Permits," revised July 1, 2002, copy attached.
- 2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
- 3. This permit becomes effective on the date of signature below and expires at midnight five years thereafter.
- PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application:May 26, 2010Date of application acceptance:May 26, 2010

This Order prepared by GREGG WOOD, BUREAU OF LAND & WATER QUALITYME0100552 201012/13/10

ME0100552 W002686-6D-G-R

Minimum

SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Beginning the effective date of this permit, the permittee is authorized to discharge secondary treated sanitary wastewater from <u>**Outfall #001**</u> to the Androscoggin River. Such discharges shall be limited and monitored by the permittee as specified below⁽¹⁾:

							l	Minimum
Effluent Characteristic			Discha	rge Limitations	5		Monitori	ing Requiremen
	Monthly Average	Weekly Average	<u>Daily</u> <u>Maximum</u>	Monthly Average	Weekly Average	<u>Daily</u> <u>Maximum</u>	Measurement Frequency	Sample Type
Flow [50050]	2.65 MGD [03]		Report MGD [03]				Continuous [99/99]	Recorder [RC]
BOD ₅ [00310]	663 lbs./day [26]	995 lbs./day [26]	1,105 lbs./day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	3/Week [03/07]	Composite [24]
BOD ₅ Percent Removal ⁽²⁾ [81010]				85% [23]			1/Month [01/30]	Calculate [CA]
TSS [00530]	663 lbs./day [26]	995 lbs./day [26]	1,105 lbs./day [26]	30 mg/L [19]	45 mg/L [19]	50 mg/L [19]	3/Week [03/07]	Composite [24]
TSS Percent Removal ⁽²⁾ [81011]				85% [23]			1/Month [01/30]	Calculate [CA]
Settleable Solids [00545]						0.3 ml/L [25]	5/Week [05/07]	Grab [GR]
<i>E. coli</i> Bacteria ⁽³⁾ (<i>May</i> 15 th – September 30 th)[31633]				126/100 ml ⁽⁴⁾ [13]		949/100 ml [13]	3/Week [03/07]	Grab [GR]
Total Residual Chlorine⁽⁵⁾						1.0 mg/L [19]	1/Day [01/01]	Grab [GR]
pH [00400]						6.0 – 9.0 SU [12]	1/Day [01/01]	Grab [GR]

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SPECIAL CONDITIONS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (cont'd

Outfall #001 Effluent Characteristic

Effluent Characteristic			Discharge l	Limitations			Monitoring R	equirements
	<u>Monthly</u> <u>Average</u>	<u>Weekly</u> Average	<u>Daily</u> <u>Maximum</u>	<u>Monthly</u> Average	<u>Weekly</u> Average	<u>Daily</u> Maximum	<u>Measurement</u> <u>Frequency</u>	<u>Sample</u> <u>Type</u>
Orthophosphate (June 1 – Sept. 30) ⁽⁶⁾ [04175]	Report lbs./day [26]		Report lbs./day [26]	Report mg/L [19]		Report mg/L [19]	1/Month [01/30]	Composite [24]
Total Phosphorous (June 1 – Sept. 30) ⁽⁷⁾ [00665]	Report lbs./day [26]		Report lbs./day [26]	Report mg/L [19]		Report mg/L [19]	1/Month [01/30]	Composite [24]
Aluminum (Total) [01105]	1.0 lbs./day [26]			90 ug/L [28]			1/Year [01/YR]	Composite [24]
Copper (Total) [01042]	0.25 lbs./day [26]		0.16 lbs./day [26]	22 ug/L [28]		14 ug/L [28]	1/Year [01/YR]	Composite [24]
Lead (Total) [01051]	0.075 lbs./day [26]			7 ug/L [28]			1/Year [01/YR]	Composite [24]
Zinc (Total) [01092]			1.0 lbs./day [26]			90 ug/L [28]	1/Year [01/YR]	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 through 9 of this permit for applicable footnotes.

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

2. SCREENING LEVEL TESTING – Beginning 12 months prior to expiration of this permit and lasting through the expiration date of the permit and every five years thereafter.

Effluent Characteristic		Discharge 1	Limitations		Minimum Mor	nitoring Requirements
	Monthly <u>Average</u>	Daily <u>Maximum</u>	Monthly <u>Average</u>	Daily <u>Maximum</u>	Measurement <u>Frequency</u>	Sample <u>Type</u>
Whole Effluent Toxicity (WET) ⁽⁸⁾						
<u>A-NOEL</u> Ceriodaphnia dubia [TDA3B] (Water Flea)				Report % [23]	1/Year [01/YR]	Composite [24]
(Water Frea) Salvelinus fontinalis [TDA6F] (Brook trout)				Report % [23]	1/Year [01/YR]	Composite [24]
<u>C-NOEL</u> Ceriodaphnia dubia [TBP3B]				Report % [23]	1/Year [01/YR]	Composite [24]
(Water Flea) Salvelinus fontinalis [TBQ6F] (Brook trout)				Report % [23]	1/Year [01/YR]	Composite [24]
Priority Pollutants ⁽⁹⁾ [50008]				Report ug/L [28]	1/Year [01/YR]	Composite/Grab [24/GR]
Analytical Chemistry ^(9,10) [51477]				Report ug/L [28]	1/Quarter [01/90]	Composite/ Grab [24/GR]

<u>FOOTNOTES</u>: See pages 7-9 of this permit for applicable footnotes.

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

FOOTNOTES:

1. **Monitoring** – All effluent monitoring shall be conducted at a location following the last treatment unit in the treatment process as to be representative of end-of-pipe effluent characteristics. Any change in sampling location must be approved by the Department in writing.

Sampling and analysis must be conducted in accordance with; a) methods approved in 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 shall be analyzed by a laboratory certified by the State of Maine's Department of Human Services for waste water testing. Samples that are sent to another POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S.A. § 413 or laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of *Maine Comprehensive and Limited Environmental Laboratory Certification Rules*, 10-144 CMR 263 (last amended February 13, 2000).

All analytical test results shall be reported to the Department including results which are detected below the respective reporting limits (RLs) specified by the Department or as specified by other approved test methods. See **Attachment A** of this permit for a list of the Department's RLs. If a non-detect analytical test result is below the respective RL, the concentration result shall be reported as <Y where Y is the detection limit achieved by the laboratory for each respective parameter. Reporting a value of <Y that is greater than an established RL is not acceptable and will be rejected by the Department. For mass, if the analytical result is reported as <Y or if a detectable result is less than a RL, report a <X lbs/day, where X is the parameter specific limitation established in the permit.

- 2. **Percent Removal** The treatment facility shall maintain a minimum of 85 percent removal of both biochemical oxygen demand and total suspended solids for all flows receiving secondary treatment. The percent removal shall be calculated based on influent and effluent concentration values. The percent removal shall be waived when the monthly average influent concentration is less than 200 mg/L. For instances when this occurs, the facility shall report "NODI-9" for this parameter on the monthly Discharge Monitoring Report (DMR).
- 3. *E. coli* bacteria *E. coli* bacteria limits and monitoring requirements are seasonal and apply between May 15 and September 30 of each year. The Department reserves the right to require year-round disinfection to protect the health, safety and welfare of the public.

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

FOOTNOTES:

- 4. *E. coli* bacteria reporting The monthly average *E. coli* bacteria limitation is a geometric mean limitation and sample results shall be reported as such.
- 5. **TRC Monitoring** 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 shall report "NODI-9" for this parameter on the monthly DMR. The permittee shall utilize approved test methods that are capable of bracketing the TRC limitation in this permit.
- 6. **Total Phosphorus** Total phosphorus monitoring shall be performed in accordance with **Attachment B** of this permit, *Protocol For Total P Sample Collection and Analysis* unless otherwise specified by the Department, including any required QA/QC protocols.
- 7. **Orthophosphate** Orthophosphate monitoring shall be performed in accordance with **Attachment C** of this permit, *Protocol For Orthophosphate Sample Collection and Analysis* unless otherwise specified by the Department, including any required QA/QC protocols.
- 8. Whole effluent toxicity (WET) testing Definitive WET testing is a multiconcentration testing event [a minimum of five dilutions bracketing the critical acute (modified acute) and chronic dilution of 1.0% and 0.25% respectively], which provides a point estimate of toxicity in terms of No Observed Effect Level, commonly referred to as NOEL or NOEC. A-NOEL is defined as the acute no observed effect level with survival as the end point. C-NOEL is defined as the chronic no observed effect level with survival, reproduction and growth as the end points.
 - a. **Screening level testing** Beginning 12 months prior to permit expiration and lasting through permit expiration and every five years thereafter, the permittee shall conduct screening level WET testing at a minimum frequency of once per year (1/Year) on the water flea and brook trout. Surveillance level testing has been waived pursuant to Department rule 06-096 CMR Chapter 530 Section D(3)(b).

Test results must be submitted to the Department not later than the next Discharge Monitoring Report (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 shall evaluate test results being submitted and identify to the Department possible exceedences of the critical acute and chronic water quality thresholds of 1.0% and 0.25%, respectively. See **Attachment D** of this permit for a copy of the Department's WET report form.

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>Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving</u> <u>Water to Freshwater Organisms</u>, Fourth Edition, October 2002, EPA-821-R-02-013.
- b. <u>Methods for Measuring the Acute Toxicity of Effluent and Receiving Waters to</u> <u>Freshwater and Marine Organisms</u>, Fifth Edition, October 2002, EPA-821-R-02-012.

The permittee is also required to analyze the effluent for the parameters specified in the WET chemistry section, and the parameters specified in the analytical chemistry section of the form in **Attachment A** of this permit each time a WET test is performed.

- 9. Priority Pollutant Testing Priority pollutant testing refers to analysis for levels of priority pollutants listed in Attachment A of this permit. Screening level testing shall be conducted once per year (1/Year) beginning 12 months prior to permit expiration and every five years thereafter. Surveillance level priority pollutant testing is not required pursuant to Department rule 06-096 CMR Chapter 530 Section 2.D.
- 10. **Analytical Chemistry** Refers to a suite of chemical tests in **Attachment A** of the permit modification. Screening level testing shall be conducted once per quarter(1/Quarter) for four consecutive calendar quarters beginning 12 months prior to permit expiration and every five years thereafter.

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

Analytical chemistry and priority pollutant test results must be submitted to the Department not later than the next Discharge Monitoring Report (DMR) required by the permit, provided, however, that the permittee may review the laboratory reports for up to 10 business days after receiving the test results from the laboratory conducting the testing

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

FOOTNOTES:

before submitting them. The permittee shall evaluate test results being submitted and identify to the Department, possible exceedences of the acute, chronic or human health AWQC as established in Chapter 584. For the purposes of DMR reporting, enter a "1" for <u>yes</u>, testing done this monitoring period or "NODI-9" monitoring <u>not required</u> this period.

B. NARRATIVE EFFLUENT LIMITATIONS

- 1. The effluent shall not contain a visible oil sheen, foam or floating solids at any time which would impair the usages designated by the classification of the receiving waters.
- 2. The effluent shall not contain materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the usages designated by the classification of the receiving waters.
- 3. The discharge shall not cause visible discoloration or turbidity in the receiving waters which would impair the usages designated by the classification of the receiving waters.
- 4. Notwithstanding specific conditions of this permit the effluent must not lower the quality of any classified body of water below such classification, or lower the existing quality of any body of water if the existing quality is higher than the classification.

C. TREATMENT PLANT OPERATOR

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

D. LIMITATIONS FOR INDUSTRIAL USERS

Pollutants introduced into the wastewater collection and treatment system by a non-domestic source (user) shall not pass through or interfere with the operation of the treatment system.

E. UNAUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with: 1) the permittee's General Application for Waste Discharge Permit, accepted for processing on May 26, 2010; 2) the terms and conditions of this permit; and 3) only from Outfall #001. Discharges of waste water from any other point source are not authorized under this permit, and shall be reported in accordance with Standard Condition B(5)(*Bypass*) of this permit.

F. NOTIFICATION REQUIREMENT

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

- 1. Any introduction of pollutants into the wastewater collection and treatment system from an indirect discharger in a primary industrial category discharging process wastewater; and
- 2. Any substantial change (increase or decrease) in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants into the system at the time of permit issuance. For the purposes of this section, notice regarding substantial change shall include information on:
 - (a) the quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
 - (b) any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

G. WET WEATHER FLOW MANAGEMENT PLAN

The treatment facility staff shall maintain 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 shall conform to Department guidelines for such plans and shall 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 shall review their plan annually** and record any necessary changes to keep the plan up to date.

H. OPERATION & MAINTENANCE (O&M) PLAN

This facility shall have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which the permittee shall at all times, properly operate and maintain all facilities and systems of transport, 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 shall evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the waste water treatment facility to ensure that it is up-to-date. The O&M Plan shall be kept on-site at all times and made available to Department and EPA personnel upon request.

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

I. DISPOSAL OF TRANSPORTED WASTES IN WASTE WATER 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 25,000 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 shall 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 shall be suspended until there is no further risk of adverse effects.

I. DISPOSAL OF TRANSPORTED WASTES IN WASTEWATER TREATMENT FACILITY

- 4. The permittee shall maintain records for each load of transported wastes in a daily log which shall include at a minimum the following.
 - (a) The date;
 - (b) The volume of transported wastes received;
 - (b) 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 shall be maintained at the treatment facility for a minimum of five years.

- 5. The addition of transported wastes into the treatment process or solids handling stream shall not cause the treatment facility's 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 shall 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 shall not be recorded as transported wastes but should be reported in the treatment facility's influent flow.
- 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 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. Access to transported waste receiving facilities may be permitted only during the times specified in the application materials and under the control and supervision of the person responsible for the wastewater treatment facility or his/her designated representative.
- 10. 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.

J. MERCURY

All mercury sampling (4/Year) required by this permit or required to determine compliance with interim limitations established pursuant to Department rule Chapter 519, shall be conducted in accordance with EPA's "clean sampling techniques" found in EPA Method 1669, <u>Sampling Ambient Water For Trace Metals At EPA Water Quality Criteria Levels</u>. All mercury analysis shall be conducted in accordance with EPA Method 1631, <u>Determination of Mercury in Water by Oxidation, Purge and Trap, and Cold Vapor Fluorescence Spectrometry</u>. See **Attachment E**, *Effluent Mercury Test Report*, of this permit for the Department's form for reporting mercury test results.

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

By December 31 of each calendar year, the permittee shall provide the Department with a certification describing any of the following that have occurred since the effective date of this permit *[PCS Code 95799]*: See **Attachment D** of the Fact Sheet for an acceptable certification form to satisfy this Special Condition.

- (a) Changes in the number or types of non-domestic wastes contributed directly or indirectly to the wastewater treatment works that may increase the toxicity of the discharge;
- (b) Changes in the operation of the treatment works that may increase the toxicity of the discharge; and
- (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 shall provide the Department with statements describing;

- (d) Changes in storm water collection or inflow/infiltration affecting the facility that may increase the toxicity of the discharge.
- (e) Increases in the type or volume of hauled wastes accepted by the facility.

The Department reserves the right to reinstate annual (surveillance level) testing or other toxicity testing if new information becomes available that indicates the discharge may cause or have a reasonable potential to cause exceedences of ambient water quality criteria/thresholds.

L. REOPENING OF PERMIT FOR MODIFICATIONS

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

M. MONITORING AND REPORTING

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

Department of Environmental Protection Central Maine Regional Office Bureau of Land and Water Quality Division of Water Quality Management 17 State House Station Augusta, Maine 04333

Alternatively, if you are submitting an electronic DMR (eDMR), the completed eDMR must be electronically submitted to the Department by a facility authorized DMR Signatory not later than close of business on the 15th day of the month following the completed reporting period. 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 eDMR must be submitted not later than close of business on the 15th day of the month following the completed reporting period.

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 shall remain in full force and effect, and shall be construed and enforced in all aspects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

ATTACHMENT A

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

	Facility Name			MEPDES # Pipe #		Facility F	Facility Representative Signature To the best of my knowledge this information is true, accurate and complete.	owledge this info	ormation is tru	e, accurate ar	id complete.
	Licensed Flow (MGD)			Flow for	Flow for Day (MGD) ⁽¹⁾		Flow Avg. for Month (MGD) ⁽²⁾	onth (MGD) ⁽²⁾		_	
	Acute dilution factor Chronic dilution factor			Date Samp	Date Sample Collected		Date Sam	Date Sample Analyzed			
	Human health dilution factor Criteria type: M(arine) or F(resh)				Laboratory Address				Telephone		
	ERROR WARNING L Essential facility	FRESH WATER VERSION	ER VERSIG	NO	Lab Contact				Lab ID #		
	information is missing. Please check required entries in bold above.	Please see the footnotes on the last page.	otes on the	last page.		Receiving Water or Ambient	Effluent Concentration (ug/L or as noted)				
	WHOLE EFFLUENT TOXICITY										
		<u>ч</u>	Effluent Limits, % Acute Chronic	imits, % Chronic			WET Result, % Do not enter % sign	Reporting Limit Check	Possibl Acute	Possible Exceedence	ence ⁽⁷⁾
	Trout - Acute										
	Trout - Chronic					Ţ					
	Water Flea - Acute Water Flea - Chronic										
	WET CHEMISTRY										
	pH (S.U.) (9)					(8)					
	Total Organic Carbon (mg/L)					(8)					
	I otal Solids (mg/L) Total Suspended Solids (mg/L)										
	Alkalinity (mg/L)					(8)					
	Specific Conductance (umhos)					Q					
	Total Hardness (mg/L) Total Magnesium (mg/L)					(8) (8)					
	Total Calcium (mg/L)					(8)					
	ANALYTICAL CHEMISTRY ⁽³⁾	-									
	Also do these tests on the effluent with WFT Testing on the receiving water is		Efflue	Effluent Limits, ug/L	ug/L			Reporting	Possibl	Possible Exceedence	ence ⁽⁷⁾
	optional	Limit	Acute ⁽⁶⁾ CI	Chronic ⁽⁶⁾	Health ⁽⁶⁾			Limit Check	Acute	Chronic	Health
	TOTAL RESIDUAL CHLORINE (mg/L) (9)	0.05				NA (8)					
Σ		AN				(8)					
Μ	ARSENIC	5				(8)					
Σ	CADMIUM	- 4				(8)					
Σ	COPPER	0 6				(8) (8)					
Z	CYANDE	2				(8)					
Δ	LEAD	3				(8)					
ΣΣ	NICKEL SILVER	1				(8) (8)					
M	ZINC	5				(8)					

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

	PRIORITY POLLUTANTS ⁽⁴⁾	-								
				Effluent Limits	lits		Danorting		Possible Exceedence	ence ⁽⁷⁾
		Reporting Limit	Acute ⁽⁶⁾	Chronic ⁽⁶⁾	Health ⁽⁶⁾		Limit Check	k Acute	Chronic	Health
Σ	ANTIMONY									
Σ	BERYLLIUM	2								
Σ	MERCURY (5)	0.2								
Σ	SELENIUM	2								
∑ •	I HALLIUM	4 0								
4 •	2,4,6-IRICHLOROPHENOL	ΩĽ								
4 <		о ш								
4 -		υĻ								
4 <		0 1 1								
4 <		<u>م</u>								
٢	Z-INITROFIENOL 4 6 DINITRO-O-CRESOL 72-Methvil-4 6-	C								
٩	dinitrophenol)	25								
4	4-NITROPHENOL	20								
	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	10								
BN	1,3-(M)DICHLOROBENZENE	5								
BN	1,4-(P)DICHLOROBENZENE	5								
BN	2,4-DINITROTOLUENE	9								
BN	2,6-DINITROTOLUENE	5								
BN	2-CHLORONAPHTHALENE	22								
N B N	3,3'-DICHLOROBENZIDINE	16.5								
NB	3,4-BENZO(B)FLUORANI HENE	2 V								
Zn d	4-BROMOPHENYLPHENYL ETHER	.7 -								
		Ωι								
		о ш								
		ט ע								
	BENZIDINE	45								
BN	BENZO(A)ANTHRACENE	2 ∞								
BN	BENZO(A)PYRENE	ę								
BN	BENZO(G,H,I)PERYLENE	5								
BN	BENZO(K)FLUORANTHENE	3								
BN	BIS(2-CHLOROETHOXY)METHANE	5								
BN	BIS(2-CHLOROETHYL)ETHER	9								
BN	BIS(2-CHLOROISOPROPYL)ETHER	9								
BN	BIS(2-ETHYLHEXYL)PHTHALATE	3								
BN	BUTYLBENZYL PHTHALATE	5								
N B N	CHRYSENE	<i>с</i> 1								
BN	DI-N-BUTYL PHTHALATE	5								
BN	DI-N-OCTYL PHTHALATE	1 2								
Na	UIBENZO(A,H)AN I HKACENE	υ u								
Na Na		о и С								
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Revised March 2007

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Maine Department of Environmental Protection WET and Chemical Specific Data Report Form

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

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Maine Department of Environmental Protection WET and Chemical Specific Data Report Form

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ACKULEIN	NA	 				
ACRYLONITRILE	NA					
BENZENE	5					
BROMOFORM	5					
CARBON TETRACHLORIDE	5	 				
CHLOROBENZENE	9					
CHLORODIBROMOMETHANE	с					
CHLOROETHANE	5					
CHLOROFORM	5	 				
DICHLOROBROMOMETHANE	с					
ETHYLBENZENE	10					
METHYL BROMIDE (Bromomethane)	5	 				
METHYL CHLORIDE (Chloromethane)	5					
METHYLENE CHLORIDE	5					
TETRACHLOROETHYLENE						
(Perchloroethylene or Tetrachloroethene)	5					
LOLUENE	5					
TRICHLOROETHYLENE (Trichloroethene)	e					
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.

(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 B

Protocol for Total P Sample Collection and Analysis

Approved Analytical Methods: EPA 365.2, SM 4500-P B.5 E.

Sample Collection: The Maine DEP is requesting that total phosphorus analysis be conducted on composite effluent samples. Facilities can use individual collection bottles or a single jug made out of glass or polyethylene. Bottles and/or jugs should be cleaned prior to each use with dilute HCL. This cleaning should be followed by several rinses with distilled water. The sampler hoses should be cleaned, as needed.

Sample Preservation: During compositing the sample must be at 0-4 degrees C. If the sample is being sent to a commercial laboratory or analysis cannot be performed the day of collection then the sample must be preserved by the addition of 2 mls of concentrated H_2SO_4 per liter and refrigerated at 0-4 degrees C. The holding time for a preserved sample is 28 days

QA/QC: Run a distilled water blank and at least 2 standards with each series of samples. If standards do not agree within 2% of the true value then prepare a new calibration curve.

Every month run a blank on the composite jug and sample line. Automatically, draw distilled water into the sample jug using the sample collection line. Let this water set in the jug for 24 hours and then analyze for total phosphorus. Preserve this sample as described above.

April 2004

ATTACHMENT C

Protocol for Orthophosphate Sample Collection and Analysis

Approved Analytical Methods: EPA 365.2, SM 4500-P.E.

Sample Collection: The Maine DEP is requesting that orthophosphate analysis be conducted on composite effluent samples. Facilities can use individual collection bottles or a single jug made out of glass or polyethylene. Bottles and/or jugs should be cleaned prior to each use with dilute HCL. This cleaning should be followed by several rinses with distilled water. The sampler hoses should be cleaned, as needed.

Sample Preservation: During compositing the sample must be at 0-4 degrees C. The sample must be filtered immediately (within 15 minutes) after collection using a pre-washed 0.45-um membrane filter. Be sure to follow one of the pre-washing procedures described in the approved methods. Also, be aware that you will likely want to use a separate suction hose and collection container for the orthophosphate filtering process. If the sample is being sent to a commercial laboratory or analysis cannot be performed within 2 hours after collection then the sample must be kept at 0-4 degrees C. There is a 48-hour holding time for this sample although analysis should be done sooner, if possible.

QA/QC: Same as described in Total P Protocol.

April 2004

ATTACHMENT D

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION WHOLE EFFLUENT TOXICITY REPORT FRESH WATERS

Facility Name				MEPDES Permit #		
Facility Representative	to the best of my l		Signature	l is true, accurate,	and complete.	
Facility Telephone #			Date Collected	mm/dd/yy	Date Tested	
Chlorinated?		Dechlorinated?		mm/dd/yy		mini ddi yy
Results % effluent water flea trout					A-NOEL	Effluent Limitations
A-NOEL C-NOEL					C-NOEL	
Data summary	% su	water flea	no. young	% s	trout urvival	final weight (mg)
QC standard lab control receiving water control conc. 1 (%) conc. 2 (%) conc. 3 (%) conc. 5 (%) conc. 6 (%) stat test used place * next Reference toxicant toxicant / date limits (mg/L) results (mg/L) Comments	A>90	C>80			C>80	> 2% increase
Laboratory conducting test Company Name Mailing Address City, State, ZIP			Company Rep. Na Company Rep. Sig Company Telepho	gnature		

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

ATTACHMENT E

Maine Department of Environmental Protection Effluent Mercury Test Report

Name of Facility:	Federal Permit # ME Pipe #						
Purpose of this test: Initial limit determination Compliance monitoring fo Supplemental or extra test	r: year calendar quarter						
SAMPLE COLLECTION INFORMATION							
Sampling Date:	Sampling time: AM/PM						
mm dd yy Sampling Location:							
Weather Conditions:							
Please describe any unusual conditions with the infl time of sample collection:	uent or at the facility during or preceding the						
Optional test - not required but recommended where evaluation of mercury results:	possible to allow for the most meaningful						
Suspended Solidsmg/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 y Effluent Limits: Average = ng/L	your facility Maximum =ng/L						
Please attach any remarks or comments from the lab their interpretation. If duplicate samples were taker							
CERTIFICATION							
I certifiy that to the best of my knowledge the foreg conditions at the time of sample collection. The sar using EPA Methods 1669 (clean sampling) and 163 instructions from the DEP.	nple for mercury was collected and analyzed 1 (trace level analysis) in accordance with						
By: Title:	Date:						

PLEASE MAIL THIS FORM TO YOUR ASSIGNED INSPECTOR

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND MAINE WASTE DISCHARGE LICENSE

FACT SHEET

DATE: October 28, 2010

PERMIT NUMBER:ME0100552LICENSE NUMBER:W002686-6D-G-R

NAME AND ADDRESS OF APPLICANT:

RUMFORD MEXICO SEWERAGE DISTRICT P.O. Box 160 Rumford, Maine 04276

COUNTY:

Oxford

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

Rumford-Mexico Sewerage District US Route 2 – River Road Mexico, Maine 04257

RECEIVING WATER/CLASSIFICATION: Androscoggin River/Class C

COGNIZANT OFFICIAL AND TELEPHONE NUMBER:

Mr. Gregory Trundy Superintendent (207) 364-7225 e-mail: gtrundy@hotmail.com

1. APPLICATION SUMMARY

a. <u>Application</u>: The District has submitted a timely and complete application to the Department for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit ME0100552/WDL W002686-5L-F R (permit hereinafter), which was issued by the Department on September 21, 2005, and is due to expire on September 21, 2010. The 9/21/05 permit authorized the monthly average discharge of up to 2.65 million gallons per day (MGD) of secondary treated waste water to the Androscoggin River, Class C, in Mexico, Maine. See **Attachment A** of this Fact Sheet for a location map of the District's waste water treatment facility.

1. APPLICATION SUMMARY

b. <u>Source Description</u>: The waste water treatment facility receives sanitary waste water generated by 3,000 residential connections and 350 commercial connections located within the towns of Mexico, Rumford, and Dixfield. Each municipality has a separate sewer collection system that delivers domestic waste water to the treatment facility, which is located one mile downstream of the center of Mexico. The collection system contains 28 pump stations, which are located throughout the area served. The Rumford-Mexico Sewerage District operates and maintains one pump station on Dix Avenue in Mexico, which conveys the majority of Mexico's flows, and two in Rumford on Prospect Avenue and the South Rumford Road. However, 25 other pump stations are operated and maintained by the towns of Rumford and Dixfield.

The permittee has indicated that there are no combined sewer overflow (CSO) points associated with the District's or the surrounding towns' collection systems. The permittee has indicated that the facility does not receive more than 10% of its flow from industrial users of the system.

The District stated that the only source of waste water conveyed to the treatment facility by the Rumford Paper Company paper mill located in Rumford is sanitary waste water. The permittee submitted an updated transported waste management plan to the Department as an exhibit to it's 5/26/10 application for permit renewal. The previous permitting action (administratively modified on October 19, 2005) authorized the District to receive and introduce into the treatment process a daily maximum of up to 25,000 gallons of transported wastes, which is being carried forward in this permitting action.

c. <u>Wastewater Treatment</u>: The facility provides a secondary level of treatment via aeration basins and secondary clarification. Raw sewerage enters the facility through an automatically controlled sluice gate to either a comminutor or bar rack, then to a 12-foot diameter grit chamber and then into a 10,000-gallon wet well. From the wet well, flows are pumped to primary parabolic screens then to one of two 189,000-gallon aeration basins (one may be used for sludge storage) and from the aeration basin to two 189,000-gallon, 55-foot diameter circular secondary clarifiers. Clarifier supernatant is conveyed through a 65,000-gallon chlorine contact tank for disinfection using sodium hypochlorite before final discharge to the Androscoggin River. Wasted sludge is conveyed to two 112,000-gallon digesters, is thickened and subsequently dewatered in a belt filter press, and then composted on site. See **Attachment B** of this Fact Sheet for a schematic of the District's waste water treatment facility.

Final effluent is conveyed for discharge to the Androscoggin River via a 24-inch diameter outfall pipe that extends out into the receiving water approximately 90 feet to a depth of approximately 6 feet below the surface of the water during low flow conditions. The pipe is not fitted with a diffuser or similar structure designed to enhance mixing of the effluent with the receiving water.

2. PERMIT SUMMARY

- a. <u>Terms and Conditions</u>: This permitting action is carrying forward all the terms and conditions of the 9/21/05 permitting action except that this permit is:
 - 1. Reducing the monthly average (geometric mean) concentration limitation for *E. coli* bacteria based on a revised water quality standard.
 - 2. Reducing the monitoring frequency for settleable solids from 1/Day to 5/Week given the excellent compliance history.
 - 3. Establishing a requirement to submit an annual certification pursuant to Department rule Chapter 530, *Surface Water Toxics Control Program*.
 - 4. Establishing monthly average and/or daily maximum water quality based mass and concentration limitations for aluminum, copper, lead and zinc as said parameters have a reasonable potential to exceed ambient water quality criteria established in Department rule, 06-096 CMR, *Surface Water Quality Criteria for Toxic Pollutants*.
- b. <u>History</u>: The most recent licensing/permitting actions include the following:

April 14, 1994 – The Department issued WDL #W002686-46-C-R to the District for the monthly average discharge of up to 2.65 MGD of secondary treated wastewater to Androscoggin River in Mexico. The 4/14/94 WDL superseded WDL #W002686-46-B-R issued on March 8, 1989 and WDL #2686 issued on September 14, 1983.

April 30, 1999 – The USEPA issued National Pollutant Discharge Elimination System (NPDES) permit #ME0100552 to the District for the monthly average discharge of up to 2.65 MGD of treated wastewater to the Androscoggin River.

May 23, 2000 – Pursuant to Maine law, 38 M.R.S.A. §420 and §413 and Department rule, 06-096 CMR Chapter 519, *Interim Effluent Limitations and Controls for the Discharge of Mercury*, the Department issued a *Notice of Interim Limits for the Discharge of Mercury* to the permittee thereby administratively modifying WDL #W002686-46-C-R by establishing interim monthly average and daily maximum effluent concentration limits of 11.7 parts per trillion (ppt) and 17.6 ppt, respectively, along with a minimum monitoring frequency requirement of 4 tests per year for mercury.

January 12, 2001 – The Department received authorization from the U.S. Environmental Protection Agency (USEPA) to administer the National Pollutant Discharge Elimination System (NPDES) permit program in Maine, excluding areas of special interest to Maine Indian Tribes. From that point forward, the program has been referred to as the Maine Pollutant Discharge Elimination System (MEPDES) permit program.

June 29, 2001 – The Department issued WDL Modification #W002686-5L-E-M / MEPDES permit #ME0100552 to the District for the continued discharge of 2.65 MGD to the Androscoggin River. The 6/29/01 permitting action superseded WDL #W002686-5L-D-R issued on August 10, 2000 and all previous NPDES permits and State waste discharge licenses.

2. PERMIT SUMMARY (cont'd)

October 19, 2001 – The Department issued a letter to the District thereby administratively modifying the 6/29/01 MEPDES permit to eliminate the monthly maximum limit of 120,000 gallons per day (GPD) for disposal of septage in the wastewater treatment facility. The administrative modification carried forward authorization to receive and introduce into the treatment works a daily maximum of up to 10,000 GPD.

April 23, 2004 – The Department issued a letter to the District thereby administratively modifying WDL #W002686-5L-E-M/ME0100552 and eliminating the weekly average mass limit of 10.8 lbs./day for total phosphorus. As of 4/23/04, the Department had not completed a total maximum daily load (TMDL) for the Androscoggin River to determine whether the phosphorus limit, which was based on a Department best professional judgment determination, was appropriate for protection of receiving water quality. Therefore, the numeric phosphorus limit was eliminated.

July 18, 2005 – The USEPA approved a total maximum daily load (TMDL) entitled, <u>May 2005</u> <u>TMDL, Final</u> for the Androscoggin River.

September 21, 2005 – The Department issued combination MEPDES permit ME0100552/WDL W002686-5L-F R for a five-year term.

October 19, 2005 – The Department issued an administrative modification of the 9/21/05 MEPDES permit that increase the allowable septage to be received and treated at the facility from 10,000 gpd to 25,000 gpd.

May 26, 2010 – The Rumford Mexico Sewerage District submitted a timely and complete application to the Department for the renewal of the 9/21/05 permit.

3. CONDITIONS OF PERMITS

Maine law, 38 M.R.S.A. Section 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require application of best practicable treatment (BPT), be consistent with the U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Surface Water Classification System. In addition, 38 M.R.S.A., Section 420 and Department rule 06-096 CMR Chapter 530, *Surface Water Toxics Control Program*, require the regulation of toxic substances not to exceed levels set forth in Department rule 06-096 CMR Chapter 584, *Surface Water Quality Criteria for Toxic Pollutants*, 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

Maine law, 38 M.R.S.A., §467(1)(A)(2) classifies the Androscoggin River at the point of discharge as a Class C waterway. Maine law, 38 M.R.S.A., §465(4) contains the classification standards for Class C waters as follows:

- A. Class C waters must be of such quality that they are suitable for the designated uses of drinking water supply after treatment; fishing; agriculture; recreation in and on the water; industrial process and cooling water supply; hydroelectric power generation, except as prohibited under Title 12, section 403; navigation; and as a habitat for fish and other aquatic life.
- B. The dissolved oxygen content of Class C water may be not less than 5 parts per million or 60% of saturation, whichever is higher, except that in identified salmonid spawning areas where water quality is sufficient to ensure spawning, egg incubation and survival of early life stages, that water quality sufficient for these purposes must be maintained. In order to provide additional protection for the growth of indigenous fish, the following standards apply.
 - (1) The 30-day average dissolved oxygen criterion of a Class C water is 6.5 parts per million using a temperature of 22 degrees centigrade or the ambient temperature of the water body, whichever is less, if:
 - (a) A license or water quality certificate other than a general permit was issued prior to March 16, 2004 for the Class C water and was not based on a 6.5 parts per million 30-day average dissolved oxygen criterion; or
 - (b) A discharge or a hydropower project was in existence on March 16, 2005 and required but did not have a license or water quality certificate other than a general permit for the Class C water. This criterion for the water body applies to licenses and water quality certificates issued on or after March 16, 2004.
 - (2) In Class C waters not governed by subparagraph (1), dissolved oxygen may not be less than 6.5 parts per million as a 30-day average based upon a temperature of 24 degrees centigrade or the ambient temperature of the water body, whichever is less. This criterion for the water body applies to licenses and water quality certificates issued on or after March 16, 2004. The department may negotiate and enter into agreements with licensees and water quality certificate holders in order to provide further protection for the growth of indigenous fish. Agreements entered into under this paragraph are enforceable as department orders according to the provisions of sections 347-A to 349.

Between May 15th and September 30th, the number of Escherichia coli bacteria of human and domestic animal origin in Class C waters may not exceed a geometric mean of 126 per 100 milliliters or an instantaneous level of 236 per 100 milliliters. In determining human and domestic animal origin, the department shall assess licensed and unlicensed sources using available diagnostic procedures. The board shall adopt rules governing the procedure for designation of spawning areas. Those rules must include provision for periodic review of designated spawning areas and consultation with affected persons prior to designation of a stretch of water as a spawning area.

4. RECEIVING WATER QUALITY STANDARDS

C. Discharges to Class C waters may cause some changes to aquatic life, except that the receiving waters must be of sufficient quality to support all species of fish indigenous to the receiving waters and maintain the structure and function of the resident biological community. This paragraph does not apply to aquatic pesticide or chemical discharges approved by the department and conducted by the department, the Department of Inland Fisheries and Wildlife or an agent of either agency for the purpose of restoring biological communities affected by an invasive species.

5. RECEIVING WATER QUALITY CONDITIONS

<u>The State of Maine 2008 Integrated Water Quality Monitoring and Assessment Report</u>, prepared pursuant to Sections 303(d) and 305(b) of the Federal Water Pollution Control Act, lists a 8.19-mile reach of the Androscoggin River, main stem, upstream of Gulf Island Pond (ADB Assessment Unit ID #ME0104000208), in *Category 4-A: Rivers and Streams with Impaired Use, TMDL Completed.* The impairments are deficient dissolved oxygen levels caused by the discharge of BOD, TSS and phosphorus and the designated use of recreation in and on the water is impaired due to algal blooms caused by the discharge of phosphorus.

<u>The State of Maine 2008 Integrated Water Quality Monitoring and Assessment Report</u>, also lists 137 miles of the Androscoggin River from the Maine New Hampshire border to Brunswick is listed in *Category 5-D: Rivers and Streams Impaired by Legacy Pollutants*. The designated use of fish consumption is impaired due to the historic presence of the legacy pollutants including polychlorinated biphenyls and dioxin.

<u>The State of Maine 2008 Integrated Water Quality Monitoring and Assessment Report</u>, lists all freshwaters in Maine as "Category 4-A: Rivers and Streams with Impaired Use, TMDL Completed" Impairment in this context refers to the designated use of recreational fishing due to elevated levels of mercury in some fish caused by atmospheric deposition. As a result, the State has established a fish consumption advisory for all freshwaters in Maine. Pursuant to Maine law, 38 M.R.S.A. §420(1-B)(B), "a facility is not in violation of the ambient criteria for mercury if the facility is in compliance with an interim discharge limit established by the Department pursuant to section 413 subsection 11." The Department has established interim monthly average and daily maximum mercury concentration limits for this facility.

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

a. <u>Flow</u>: The previous permitting action established a monthly average discharge flow limit of 2.65 million gallons per day (MGD) based on the design capacity of the treatment facility which is being carried forward in this permitting action. This permitting action is establishing a daily maximum discharge flow reporting requirement to assist in evaluation of effluent data. This permitting action is also carrying forward the continuous recorder monitoring requirement for discharge flow.

A review of the monthly DMR data for the period April 2007 - February 2010 indicates values have been reported as follows:

riow (DNRS-33)				
Value	Limit (MGD)	Range (MGD)	Mean (MGD)	
Monthly Average	2.65	0.82 - 3.17	1.49	
Daily Maximum	Report	1.08 - 6.13	2.92	

Flow (DMRs=35)

b. <u>Dilution Factors</u>: Dilution factors associated with the discharge from the Rumford-Mexico wastewater treatment facility were derived in accordance with freshwater protocols established in Department rule Chapter 530, *Surface Water Toxics Control Program*, October 2005. With a monthly average treatment plant design flow of 2.65 MGD, dilution calculations are as follows:

Acute: 1Q10 = 1,663 cfs	$\Rightarrow (1,663.0 \text{ cfs})(0.6464) + 2.65 \text{ MGD} = 407:1$ 2.65 MGD
Modified Acute: $\frac{1}{4}$ 1Q10 = 416 cfs	$\Rightarrow (416.0 \text{ cfs})(0.6464) + 2.65 \text{ MGD} = 102:1$ 2.65 MGD
Chronic: 7Q10 = 1,663 cfs	$\Rightarrow (1.663.0 \text{ cfs})(0.6464) + 2.65 \text{ MGD} = 407:1$ 2.65 MGD
Harmonic Mean = 2,861 cfs	$\Rightarrow (2,861.0 \text{ cfs})(0.6464) + 2.65 \text{ MGD} = 699:1$ 2.65 MGD

Department rule Chapter 530 states:

Analysis using numerical acute criteria for aquatic life must be based on ¹/₄ of the 1Q10 stream design flow to prevent substantial acute toxicity within any mixing zone, according to EPA's Mixing Zone Policy and to ensure a Zone of Passage of at least ³/₄ of the cross-sectional area of any stream as required by Department rule. Where it can be demonstrated that a discharge achieves complete and rapid mixing with the receiving water, by way of an efficient diffuser or other effective method, analyses may use a greater proportion of the stream design flow, up to and including all of it, as long as the required Zone of Passage is maintained.

The District has not submitted information or data to the Department to demonstrate the mixing characteristics of the effluent with the receiving waters. Therefore, the Department is utilizing the default stream flow of ¹/₄ 1Q10 in acute evaluations in accordance with Chapter 530.

c. <u>Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS)</u>: The previous permitting action established monthly average and weekly average BOD₅ & TSS concentration limits of 30 mg/L and 45 mg/L, respectively, which were based on secondary treatment requirements as defined in Department rule 06-096 CMR Chapter 525(3)(III). The previous permitting action also established daily maximum BOD₅ & TSS concentration limits of 50 mg/L based on a Department best professional judgment (BPJ) of best practicable treatment (BPT). All three technology-based concentration limits are being carried forward in this permitting action.

Department rule 06-096 CMR Chapter 523(6)(f) states that all pollutants limited in permits shall have limitations, standards or prohibitions expressed in terms of mass. The previous permitting action established monthly average, weekly average and daily maximum technology-based mass limits of 663 lbs./day, 995 lbs./day, and 1,105 lbs./day, respectively, for BOD₅ & TSS, which are being carried forward in this permitting action and were derived as follows:

Monthly Average Mass Limit: (30 mg/L)(8.34 lbs./gallon)(2.65 MGD) = 663 lbs./day Weekly Average Mass Limit: (45 mg/L)(8.34 lbs./gallon)(2.65 MGD) = 995 lbs./day Daily Maximum Mass Limit: (50 mg/L)(8.34 lbs./gallon)(2.65 MGD) = 1,105 lbs./day

The previous permitting action established, and this permitting action is carrying forward, a requirement for a minimum of 85% removal of BOD_5 & TSS pursuant to Department rule 06-096 CMR Chapter 525(3)(III)(a)(3) and (b)(3).

This permitting action is carrying forward the minimum monitoring frequency requirement of three times per week (3/Week) based on Department guidance for POTWs permitted to discharge between 1.5 and 5.0 MGD.

A review of the monthly Discharge Monitoring Report (DMR) data for the period April 2007 – February 2010 indicates values have been reported as follows:

DOD Mass (DMRS=55)				
Value	Limit (lbs/day)	Range (lbs/day)	Average (lbs/day)	
Monthly Average	663	62 - 479	158	
Weekly Average	995	77 - 945	260	
Daily Maximum	1,105	96 - 1,522	393	

BOD Mass (DMRs=35)

BOD Concentration (DWIRS=35)				
Value	Limit (mg/L)	Range (mg/L)	Average (mg/L)	
Monthly Average	30	6.6 - 24	12	
Weekly Average	45	8.6 - 32	15	
Daily Maximum	50	9.4 - 79	21	

BOD Concentration (DMRs=35)

155 mass (DVIRs=55)				
Value	Limit (lbs/day)	Range (lbs/day)	Average (lbs/day)	
Monthly Average	663	47 - 614	161	
Weekly Average	995	64 - 1,133	277	
Daily Maximum	1,105	93 - 1,811	436	

TSS mass (DMRs=35)

TSS concentration (DMRs=35)

Value	Limit (mg/L)	Range (mg/L)	Average (mg/L)
Monthly Average	30	4.9 - 23	12
Weekly Average	45	6.0 - 28	15
Daily Maximum	50	6.9 - 37	21

d. <u>Settleable Solids</u>: The previous permitting action established a daily maximum technologybased concentration limit of 0.3 ml/L for settleable solids and a minimum monitoring frequency requirement of once per day (1/Day). The daily maximum concentration limit of 0.3 ml/L is being carried forward in this permitting action and is based on a Department BPJ determination that this limit provides sufficient information to assess whether the treatment facility is providing BPT.

A review of the monthly Discharge Monitoring Report (DMR) data for the period April 2007 – February 2010 indicates values have been reported as follows:

Setucable solids (II-33)				
Value	Limit (ml/L)	Range (mg/L)	Average (mg/L)	
Daily Maximum	0.3	0.0 - 0.1	<0.1	

Settleable solids (n=35)

The previous permitting action established a monitoring frequency of 1/Day based on Department guidance for POTWs permitted to discharge between 1.5 and 5.0 MGD. Given the excellent compliance with said limitation over the term of the previous permitting action, the Department is making a best professional judgment to reduce the monitoring frequency to 5/Week in this permitting action.

e. <u>*E. coil bacteria*</u>: The previous permitting action established seasonal (May 15 – September 30) monthly average and daily maximum *E. coli* bacteria limits of 142 colonies/100 ml and 949 colonies/100 ml respectively, based on the State of Maine Water Classification Program criteria for Class C waters found at Maine law, 38 MRSA, §465(4). During calendar year 2005, Maine's Legislature approved new monthly average and daily maximum water quality standards of 126 colonies/100 ml and 236 colonies/100 ml respectively, for water bodies designated as Class C.

This permitting is establishing the new monthly average limit of 126 colonies/100 ml and carrying forward the daily maximum limit of 949 colonies/100 ml given the acute dilution associated with the discharge results in an in-stream bacteria count of <236 colonies/100 ml.

A review of the monthly Discharge Monitoring Report (DMR) data for the period May 2007 – September 2009 indicates values have been reported as follows:

Value	Limit (col/100 ml)	Range (col/100 ml)	Mean (col/100 ml)
Monthly Average	142	6 - 37	17
Daily Maximum	949	37 - >2420	453

E. coli. bacteria (DMRs=14)

f. <u>Total Residual Chlorine (TRC)</u>: The previous permitting action established a daily maximum technology-based concentration limit of 1.0 mg/L for TRC and a minimum monitoring frequency requirement of once per day. Limitations on TRC are specified to ensure that ambient water quality standards are maintained and that BPT technology is being applied to the discharge. Department licensing/permitting actions impose the more stringent of either a water quality-based or BPT based limit. End-of-pipe acute and chronic water quality based concentration thresholds may be calculated as follows:

			Calcula	ted
Acute (A)	Chronic (C)	Modified A & C	Acute	Chronic
Criterion	Criterion	Dilution Factors	Threshold	Threshold
0.019 mg/L	0.011 mg/L	102:1 (Mod. A)	1.98 mg/L	4.48 mg/L
		407:1 (C)		

The Department has established a daily maximum BPT limitation of 1.0 mg/L for facilities that disinfect their effluent with elemental chlorine or chlorine-based compounds. The BPT-based limit of 1.0 mg/L is more stringent than the calculated acute water quality-based threshold of 1.98 mg/L and is therefore being carried forward in this permitting action. This permitting action is carrying forward the minimum monitoring frequency of once per day (1/Day), which is less frequent than Department guidance for POTWs permitted to discharge between 1.5 and 5.0 MGD, based on a Department best professional judgment of the appropriate level of monitoring necessary to assess compliance with this parameter.

A review of the monthly Discharge Monitoring Report (DMR) data for the period May 2007 – September 2009 indicates values have been reported as follows:

Total residual chlorine (DMRs=18)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Daily Maximum	1.0	0.17 - 1.0	0.74

g. <u>Total Phosphorus (Total-P) and Ortho-phosphorus (Ortho-P)</u>: The previous permitting action established a reporting requirement for monthly average and weekly average concentration and mass values for total-P and orthophosphate (ortho-P) during the warm season (June 1 through September 30) of each year. Modeling performed by the Department to support the 2005 TMDL approved by the USEPA indicates that the District constitutes approximately 1.5% of the total phosphorus and 4.5% of the ortho-phosphorus loading to Gulf Island Pond and that these contributions are relatively insignificant. Therefore, this permitting action is carrying forward a seasonal 1/Month monitoring requirement for both total phosphorus and ortho-phosphorus.

A review of the monthly Discharge Monitoring Report (DMR) data for the period May 2007 – September 2009 indicates the permittee has reported values as follows:

Concentration

Total phosphorus (DMRs=12)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly average	Report	0.36 - 3.6	1.1

Ortho phosphate (DMRs=9)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly average	Report	0.36 – 1.8	1.1

Mass

Total phosphorus (DMRs=12)

Value	Limit (lbs/day)	Range (lbs/day)	Mean (lbs/day)
Monthly average	Report	5.1 - 46.8	11.8

Ortho phosphate (DMRs=9)

Value	Limit (lbs/day)	Range (lbs/day)	Mean (lbs/day)
Monthly average	Report	2.4 - 22.9	11

h. <u>pH</u>: The previous permitting action established a pH range limitation of 6.0 – 9.0 standard units based on Department rule found at Chapter 525(3)(III)(c), which is being carried forward in this permitting action. This permitting actions also carrying forward the minimum monitoring frequency requirement of once per day (1/Day) based on Department guidance for POTWs permitted to discharge between 1.5 and 5.0 MGD.

i. <u>Whole Effluent Toxicity (WET) and Chemical Specific Testing</u> – Maine law,

38 M.R.S.A., Sections 414-A and 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. Department Rules, 06-096 CMR Chapter 530, *Surface Water Toxics Control Program*, and Chapter 584, *Surface Water Quality Criteria for Toxic Pollutants* set 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 Chapter 530, is included in this permit in order to fully characterize the effluent. This permit also 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.

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 invertebrate and vertebrate species. Priority pollutant and analytical chemistry testing is required to assess the levels of individual toxic pollutants in the discharge, comparing each pollutant to acute, chronic, and human health AWQC as established in Chapter 584.

Chapter 530 establishes four categories of testing requirements based predominately on the chronic dilution factor. The categories are as follows:

- 1) Level I chronic dilution factor of <20:1.
- 2) Level II chronic dilution factor of \geq 20:1 but <100:1.
- 3) Level III chronic dilution factor \geq 100:1 but <500:1 or >500:1 and Q \geq 1.0 MGD
- 4) Level IV chronic dilution >500:1 and Q \leq 1.0 MGD

Department rule Chapter 530 (1)(D) specifies the criteria to be used in determining the minimum monitoring frequency requirements for WET, priority pollutant and analytical chemistry testing. Based on the Chapter 530 criteria, the permittee's facility falls into the Level III frequency category as the facility has a chronic dilution factor of \geq 100:1 but <500:1. Chapter 530(1)(D)(1) specifies that <u>routine</u> screening and surveillance level testing requirements are as follows:

Screening level testing – Beginning 12 months prior to permit expiration and lasting through permit expiration and every five years thereafter.

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

Surveillance level testing – Beginning upon issuance of the permit and lasting through 12 months prior to permit expiration.

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

A review of the data on file with the Department indicates that to date, the permittee has fulfilled the WET and chemical-specific testing requirements of Chapter 530. See **Attachment C** of this Fact Sheet for a summary of the WET test results and **Attachment D** of this Fact Sheet for a summary of the chemical-specific test dates.

Department rule Chapter 530(D)(3)(b) states in part, Dischargers in Levels III and IV may be waived from conducting surveillance testing for individual WET species or chemicals provided that testing in the preceding 60 months does not indicate any reasonable potential for exceedence as calculated pursuant to section 3(E).

Chapter 530(3)(E) states "For effluent monitoring data and the variability of the pollutant in the effluent, the Department shall apply the statistical approach in Section 3.3.2 and Table 3-2 of USEPA's "Technical Support Document for Water Quality-Based Toxics Control" (USEPA Publication 505/2-90-001, March, 1991, EPA, Office of Water, Washington, D.C.) to data to determine whether water-quality based effluent limits must be included in a waste discharge license. Where it is determined through this approach that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedence of water quality criteria, appropriate water quality-based limits must be established in any licensing action."

Chapter 530 §3 states, "In determining if effluent limits are required, the Department shall consider all information on file and effluent testing conducted during the preceding 60 months. However, testing done in the performance of a Toxicity Reduction Evaluation (TRE) approved by the Department may be excluded from such evaluations."

WET Evaluation

On 11/18/10, the Department conducted a statistical evaluation on the most recent 60 months of WET data that indicates that the discharge does not exceed or have a reasonable potential (RP) to exceed either the acute or chronic critical ambient water quality criteria (AWQC) thresholds (1.0% and 0.25%, respectively – mathematical inverse of the applicable dilution factors) for any of the WET species tested to date.

Given the absence of exceedences or reasonable potential to exceed critical WET thresholds, the permittee meets the surveillance level monitoring frequency waiver criteria found at Department rule Chapter 530(D)(3)(b). Therefore, the only WET testing requirements are established as screening level testing of once per year (1/Year). Screening level testing shall be completed in the 12-month period prior to the expiration date of this permit and every five years thereafter.

In accordance with Department rule Chapter 530(2)(D)(4) and Special Condition K of this permit, 06-096 CMR 530(2)(D)(4) Statement For Reduced/Waived Toxics Testing, the permittee must annually submit to the Department a written statement evaluating its current status for each of the four conditions listed.

Chemical Evaluation

Chapter 530 (promulgated on October 12, 2005) §4(C), states "The background concentration of specific chemicals must be included in all calculations using the following procedures. The Department may publish and periodically update a list of default background concentrations for specific pollutants on a regional, watershed or statewide basis. In doing so, the Department shall use data collected from reference sites that are measured at points not significantly affected by point and non-point discharges and best calculated to accurately represent ambient water

quality conditions The Department shall use the same general methods as those in section 4(D) to determine background concentrations. For pollutants not listed by the Department, an assumed concentration of 10% of the applicable water quality criteria must be used in calculations." The Department has limited information on the background levels of metals in the water column in the Androscoggin River in the vicinity of the permittee's outfall. Therefore, a default background concentration of 10% of the applicable water quality criteria is being used in the calculations of this permitting action.

Chapter 530 4(E), states "In allocating assimilative capacity for toxic pollutants, the Department shall hold a portion of the total capacity in an unallocated reserve to allow for new or changed discharges and non-point source contributions. The unallocated reserve must be reviewed and restored as necessary at intervals of not more than five years. The water quality reserve must be not less than 15% of the total assimilative quantity." Therefore, the Department is reserving 15% of the applicable water quality criteria in the calculations of this permitting action.

Chapter 530 §(3)(E) states "... that a discharge contains pollutants or WET at levels that have a reasonable potential to cause or contribute to an exceedence of water quality criteria, appropriate water quality-based limits must be established in any licensing action."

Chapter 530 §4(F) states in part "Where there is more than one discharge into the same fresh or estuarine receiving water or watershed, the Department shall consider the cumulative effects of those discharges when determining the need for and establishment of the level of effluent limits. The Department shall calculate the total allowable discharge quantity for specific pollutants, less the water quality reserve and background concentration, necessary to achieve or maintain water quality criteria at all points of discharge, and in the entire watershed. The total allowable discharge quantity for pollutants must be allocated consistent with the following principles.

Evaluations must be done for individual pollutants of concern in each watershed or segment to assure that water quality criteria are met at all points in the watershed and, if appropriate, within tributaries of a larger river.

The total assimilative capacity, less the water quality reserve and background concentration, may be allocated among the discharges according to the past discharge quantities for each as a percentage of the total quantity of discharges, or another comparable method appropriate for a specific situation and pollutant. Past discharges of pollutants must be determined using the average concentration discharged during the past five years and the facility's licensed flow.

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

The amount of allowable discharge quantity may be no more than the past discharge quantity calculated using the statistical approach referred to in section 3(E) [Section 3.3.2 and Table 3-2 of USEPA's "Technical Support Document for Water Quality-Based Toxics Control"] of the rule, but in no event may allocations cause the water quality reserve amount to fall below the minimum referred to in 4(E) [15% of the total assimilative capacity]. Any difference between the total allowable discharge quantity and that allocated to existing dischargers must be added to the reserve.

See Attachment E of this Fact Sheet Based on Department guidance that establishes protocols for establishing waste load allocations. The guidance states that the most protective of water quality becomes the facility's allocation. According to the 11/18/10 statistical evaluation (Report ID #316) all three of the pollutants of concern (aluminum, copper, lead and zinc) are to be limited based on the segment allocation method. Test results of concern are as follows:

		Mass	RP	Segment		
Parameter	<u>Date</u>	Discharge	Factor	Allocation (mass)	<u>RP</u>	Exceedence
Aluminum	6/14/06	0.69	2.3	1.02 (chronic)	Yes	No
	3/17/10	1.02	2.3	1.02 (chronic)	Yes	No
In addition	the DD histori	asl arrays as af 2	$20.1h_{\odot}f_{\odot}$	aluminum avaada	Ale aleman	in an amand

In addition, the RP historical average of 2.20 lbs for aluminum exceeds the chronic segment allocation of 1.0 lbs/day.

		Mass	RP	Segment		
Parameter Parameter	Date	Discharge	Factor	Allocation (mass)	<u>RP</u>	Exceedence
Copper	6/14/06	0.098	2.3	0.16 (acute)	Yes	No
	12/15/09	0.093	2.3	0.16 (acute)	Yes	No
	3/17/10	0.11	2.3	0.16 (acute)	Yes	No
	3/17/10	0.11	2.3	0.25 (chronic)	Yes	No

In addition, the RP historical average of 0.42 lbs for copper exceeds the acute segment allocation of 0.16 lbs and the chronic segment allocation of 0.25 lbs/day.

		Mass	RP	Segment		
Parameter	<u>Date</u>	<u>Discharge</u>	Factor	Allocation (mass)	<u>RP</u>	Exceedence
Lead	6/10/10	0.031	2.3	0.0748 (chronic)	Yes	No
In addition, th	ne RP historical	average of 0.1	0 lbs for	r lead exceeds the chro	onic seg	ment allocation
of 0.0748 lbs/	/day.	-			-	

Parameter Parameter	Date	Discharge	Factor	Allocation (mass)	<u>RP</u>	Exceedence
Zinc	6/14/06	0.39	2.3	1.0 (acute)	Yes	No
In addition, th	ne RP historical	average of 1.4	lbs for z	inc exceeds the acute	segme	nt allocation of
1.0 lbs/day.						

Chapter 530 §(3)(D)(1) states "For specific chemicals, effluent limits must be expressed in total quantity that may be discharged and in effluent concentration. In establishing concentration, the Department may increase allowable values to reflect actual flows that are lower than permitted flows and/or provide opportunities for flow reductions and pollution prevention provided water quality criteria are not exceeded. With regard to concentration limits, the Department may review past and projected flows and set limits to reflect proper operation of the treatment facilities that will keep the discharge of pollutants to the minimum level practicable."

As not to penalize the permittee for operating at flows less than the permitted flow, the Department is establishing concentration limits based on a back calculation from the mass limit utilizing a multiplier of 2.0.

Segment allocation methodology

Historical Average:

For the segment allocation methodology, the historical average quantity (mass) for each pollutant of concern for each facility is calculated utilizing the arithmetic mean of the concentrated values reported for each pollutant, a conversion factor of 8.34 lbs/gallon and the monthly average permit limit for flow. The historical mass discharged for each pollutant for each facility is mathematically summed to determine the total mass discharged for each pollutant in the watershed. Based on the individual dischargers historical average each discharger is assigned a percentage of the whole which is then utilized to determine the percent of the segment allocation for each pollutant for each facility. For the District's facility, historical averages for aluminum, copper and zinc were calculated as follows:

<u>Aluminum</u>

Mass limits

Mean concentration (n=5) = 51 ug/L or 0.051 mg/L Permit flow limit = 2.65 MGD Historical average mass = (0.051 mg/L)(8.34)(2.65 MGD) = 1.13 lbs/day

The 11/18/10 statistical evaluation indicates the historical average mass of aluminum discharged by the District's facility is 0.15% of the aluminum discharged by the facilities on the Androscoggin River and its tributaries. Therefore, District's segment allocation for aluminum is calculated as 0.15% of the chronic assimilative capacity of the river at Brunswick, the most downstream facility minus the assimilative capacities assigned to the tributaries on the Androscoggin River that have permitted discharges. The Department has calculated a chronic assimilative capacity of 672 lbs/day of aluminum at Brunswick. Therefore, the mass segment allocation for aluminum for the District can be calculated as follows:

Monthly average mass for aluminum:

(Chronic assimilative capacity mass)(% of total aluminum discharged) (672 lbs/day)(0.0015) = 1.0 lbs/day

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

FACT SHEET

Since the adoption of Chapter 530, the Department has a developed a policy for establishing equitable concentration limits in permits that are greater than calculated end-of-pipe concentrations. In general, most dischargers subject to the Chapter 530 testing requirements are discharging at or about 50% of the flow limitations established in their permits. This provides the Department with the flexibility to establish higher concentration limits in the permit while still maintaining compliance with the water quality based mass limitations. With an actual discharge flow at $\frac{1}{2}$ (0.5) of permitted flow rate, a concentration limit of two times (mathematical inverse of 0.5) the calculated end-of-pipe concentration, will maintain compliance with water quality based mass limits. Therefore, this permitting action is establishing concentration limitations that are two (2) times higher than the calculated end-of-pipe concentrations. The permittee must keep in mind, if flows greater than 50% of the permitted flow are realized, the concentration in the effluent must be reduced proportionally to maintain compliance with the mass limitations.

Concentration limits

Monthly average concentration for aluminum;

 $\frac{1.0 \text{ lbs/day}}{(2.65 \text{ MGD})(8.34 \text{ lbs/gal.})} = 0.045 \text{ mg/L}$

(0.045 mg/L)(1,000 ug/mg)(2) = 90 ug/L

Copper

Mass limits

Mean concentration (n=5) = 8.26 ug/L or 0.00826 mg/LPermit flow limit = 2.65 MGDHistorical average mass = (0.00826 mg/L)(8.34)(2.65 MGD) = 0.18 lbs/day

The 11/18/10 statistical evaluation indicates the historical average mass of copper discharged by the District's facility is 1.477% of the copper discharged by the facilities on the Androscoggin River and its tributaries. Therefore, District's segment allocation for copper is calculated as 1.477% of the acute and chronic assimilative capacities of the river at Brunswick, the most downstream facility minus the assimilative capacities assigned to the tributaries on the Androscoggin River that have permitted discharges. The Department has calculated an acute assimilative capacity of 12.1 lbs/day and a chronic assimilative capacity 18.4 lbs/day of copper at Brunswick. Therefore, the mass segment allocations for copper for the District can be calculated as follows:

Daily maximum (acute) and monthly average (chronic) mass limitations for copper are calculated as follows:

Daily maximum: (Acute assimilative capacity mass)(% of total copper discharged) (12.1 lbs/day)(0.01477) = 0.18 lbs/day

Monthly average: (Chronic assimilative capacity mass)(% of total copper discharged) (18.4 lbs/day)(0.01477) = 0.27 lbs/day

The calculations above are correct in that the monthly average limitation is greater than the daily maximum limit. This will occur when the ratio between the acute and chronic AWQC is smaller than the ratio between the acute (1Q10) and chronic (7Q10) receiving water flows.

Concentration limits:

Daily mass limit = 0.18 lbs/day

 $\frac{(0.18 \text{ lbs/day})}{(8.34 \text{ lbs/gal})(2.65 \text{ MGD})} = 0.0081 \text{ mg/L}$

(0.0081 mg/L)(1,000 ug/mg)(2) = 16 ug/L

Monthly average mass limit = 0.27 lbs/day

 $\frac{(0.27 \text{ lbs/day})}{(8.34 \text{ lbs/gal})(2.65 \text{ MGD})} = 0.0122 \text{ mg/L}$

(0.0122 mg/L)(1,000 ug/mg)(2) = 244 ug/L

Lead

Mass limits

Mean concentration (n=5)= 2.0 ug/L or 0.0020 mg/L Permit flow limit = 2.65 MGD Historical average mass = (0.0020 mg/L)(8.34)(2.65 MGD) = 0.044 lbs/day

The 11/18/10 statistical evaluation indicates the historical average mass of lead discharged by the District's facility is 2.34% of the lead discharged by the facilities on the Androscoggin River and its tributaries. Therefore, District's segment allocation for lead is calculated as 2.34% of the chronic assimilative capacity of the river at Brunswick, the most downstream facility minus the assimilative capacities assigned to the tributaries on the Androscoggin River that have permitted discharges. The Department has calculated a chronic assimilative capacity of 3.2 lbs/day of lead at Brunswick. Therefore, the mass segment allocation for lead for the District can be calculated as follows:

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

Monthly average: (Chronic assimilative capacity mass)(% of total lead discharged) (3.2 lbs/day)(0.0234) = 0.075 lbs/day

Concentration limits

Monthly average concentration for lead;

 $\frac{0.075 \text{ lbs/day}}{(2.65 \text{ MGD})(8.34 \text{ lbs/gal.})} = 0.00340 \text{ mg/L}$

(0.0034 mg/L)(1,000 ug/mg)(2) = 6.8 ug/L or 7 ug/L

<u>Zinc</u>

Mass limits

Mean concentration (n=5) = 24.5 ug/L or 0.0251 mg/L Permit flow limit = 2.65 MGD Historical average mass = (0.0251 mg/L)(8.34)(2.65 MGD) = 0.55 lbs/day

The 11/18/10 statistical evaluation indicates the historical average mass of zinc discharged by the District's facility is 0.86% of the zinc discharged by the facilities on the Androscoggin River and its tributaries. Therefore, District's segment allocation for zinc is calculated as 0.86% of the acute assimilative capacity of the river at Brunswick, the most downstream facility minus the assimilative capacities assigned to the tributaries on the Androscoggin River that have permitted discharges. The Department has calculated an acute assimilative capacity of 118 lbs/day of zinc at Brunswick. Therefore, the mass segment allocation for zinc for the District can be calculated as follows:

Daily maximum (acute) mass limitation for zinc is calculated as follows:

Daily maximum: (Acute assimilative capacity mass)(% of total zinc discharged) (118 lbs/day)(0.0086) = 1.0 lbs/day

Concentration limits:

Daily mass limit = 1.0 lbs/day

 $\frac{(1.0 \text{ lbs/day})}{(8.34 \text{ lbs/gal})(2.65 \text{ MGD})} = 0.045 \text{ mg/L}$

(0.045 mg/L)(1,000 ug/mg)(2) = 90 ug/L

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

As for the remaining chemical specific parameters tested to date, none of the test results in the 60-month evaluation period exceed or have a reasonable potential to exceed applicable acute, chronic or human health AWQC. Therefore, this permitting action is waiving surveillance level reporting and monitoring frequency for analytical chemistry and priority pollutant testing for the first four years of the term of the permit. It is noted Chapter 530 does require surveillance level testing for dischargers in the Level III category. As with reduced WET testing, the permittee must file an annual certification with the Department pursuant to Chapter 530 §2(D)(3) and Special Condition L of this permit.

Beginning 12 months prior to the expiration date of the permit, the permittee shall conduct default screening level analytical chemistry testing at 1/Quarter and priority pollutant testing of 1/Year.

j. <u>Mercury</u>: Pursuant to *Certain deposits and discharges prohibited*, Maine law, 38 M.R.S.A. §420 and *Waste Discharge Licenses*, 38 M.R.S.A. § 413 and *Interim Effluent Limitations and Controls for the Discharge of Mercury*, 06-096 CMR 519 (last amended October 6, 2001), the Department issued a Notice of Interim Limits for the Discharge of Mercury to the permittee on May 23, 2000, thereby administratively modifying MEPDES ME0100552/WDL W002686-5L-F-R by establishing interim monthly average and daily maximum effluent concentration limits of 11.7 parts per trillion (ppt) and 17.6 ppt, respectively, and a minimum monitoring frequency requirement of four (4) tests per year for mercury. It is noted the limitations have not been incorporated into Special Condition A, *Effluent Limitations And Monitoring Requirements*, of this permit as limitations and monitoring frequencies are regulated separately through 38 M.R.S.A.§ 413 and 06-096 CMR 519 and Special Condition J, *Mercury*, of this permit. The interim limitations remain in effect and enforceable and any modifications to the limits and or monitoring requirements will be formalized outside of this permitting document.

Maine law 38 M.R.S.A., 420 1-B,(B)(1) states that a facility is not in violation of the AWQC for mercury if the facility is in compliance with an interim discharge limit established by the Department pursuant to section 413, subsection 11. A review of the Department's database for the previous 60-month period indicates the permittee has been in compliance with both limitations 100% of the time as mercury test results have reported in the range from 2.0 ppt to 15.1 ppt with an arithmetic mean (n=16) of 7.1 ppt.

k. <u>Septage/Transported Wastes</u> – The previous permitting action authorized the District to receive up to 10,000 gpd of septage. Department rule Chapter 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 25,000 gpd) as it does utilize the side stream/storage method of metering wastes into the facility's influent flow. With a design capacity of 2.65 MGD, 25,000 gpd only represents 0.94% of said capacity. The permittee has submitted an up-to-date Transported Management Plan as an exhibit to their 5/26/10 application for permit renewal.

The Department has reviewed and approved said plan and determined that under normal operating conditions, the receipt and treatment of 25,000 gpd of transported waste into the facility will not cause or contribute to upset conditions of the treatment process.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As permitted, the Department has determined the existing water uses will be maintained and protected and the discharge will not cause or contribute to the failure of the Androscoggin River to meet standards for Class C classification.

8. PUBLIC COMMENTS

Public notice of this application was made in the Rumford Falls newspaper on or about May 19, 2010. The Department receives public comments on an application until the date a final agency action is taken on the application. Those persons receiving copies of draft permits shall have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to Chapter 522 of the Department's rules.

9. DEPARTMENT CONTACTS

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

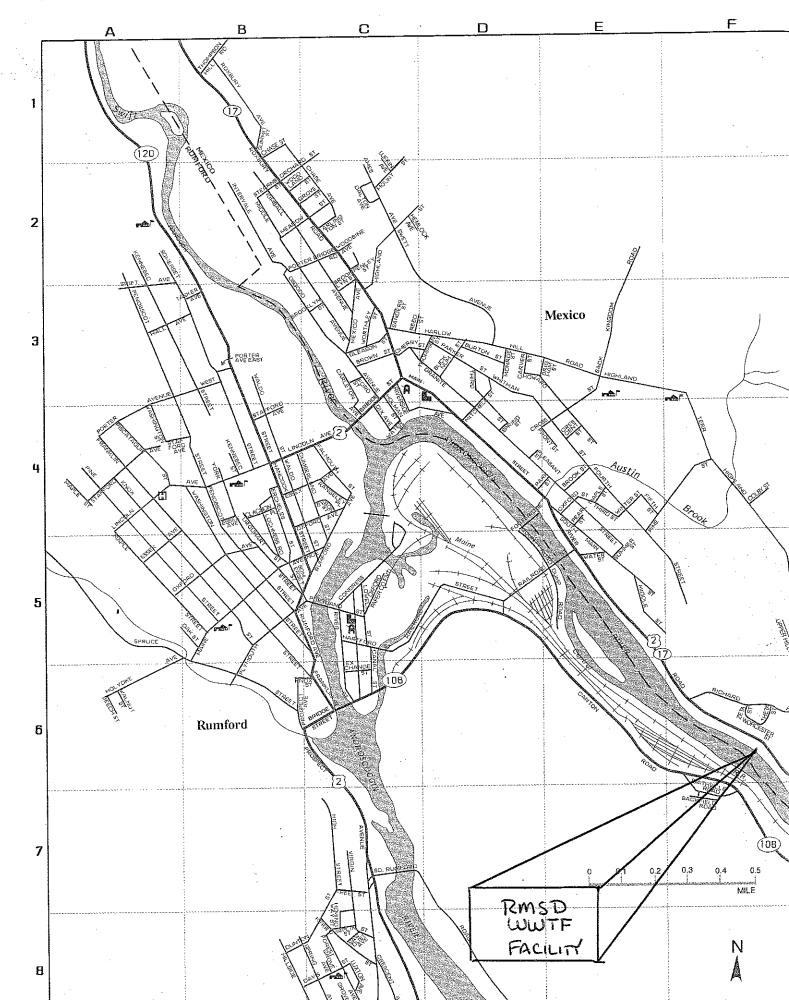
Gregg Wood Division of Water Quality Management Bureau of Land & Water Quality Department of Environmental Protection 17 State House Station Augusta, Maine 04333-0017 Telephone: (207) 287-7693 e-mail: gregg.wood@maine.gov

10. RESPONSE TO COMMENTS

FACT SHEET

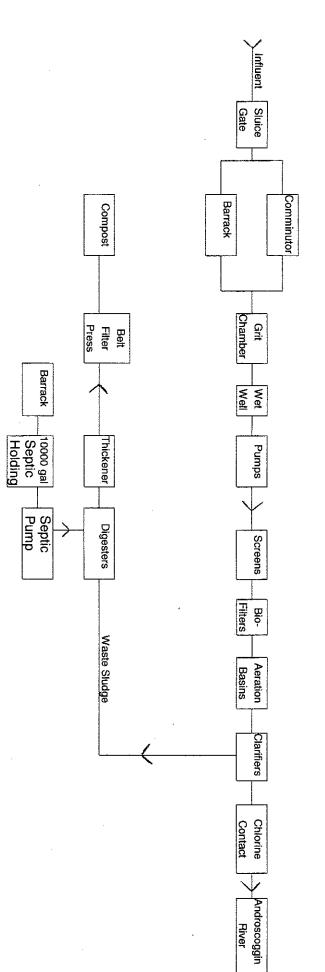
During the period of October 28, 2010, through the issuance date of the permit/license, the Department solicited comments on the proposed draft permit/license to be issued for the discharge(s) from the permittee's facility. The Department did not receive comments from the permittee, state or federal agencies or interested parties that resulted in any substantive change(s) in the terms and conditions of the permit. Therefore, the Department has not prepared a Response to Comments.

ATTACHMENT A



ATTACHMENT B

Rumford-Mexico Sewerage District Line Drawing



Received septage flows from the truck by gravity through the barrack into the septic holding tank. From there it is pumped into the digester.

ATTACHMENT C

	. '				·
		·	WATER FLEA	RUMFORD/MEXICO Species TROUT TROUT WATER FLEA	10/28/2010
State of Malne + Department of Environmental			CNOEL	NPDES= ME010055 Test A_NOEL C_NOEL A NOEL	Data fo 28/0
partment of Enviro			· ጣ ⁴ ,	Percent 100 25 25	WET TEST REPOR Data for tests conducted for 28/Oct/2005 - 28/Oct/201
nmental Protection				Effluent Limit: Acute (%) = (nt Sample date 06/06/2010 06/06/2010	REPORT ed for the period oct/2010 period.
			0.246	0.246 Critical % 0.246 0.246 0.246	
				Chronic (%) = 0.246 Exception	DEPARTMENT OF
				RP	HOUCOLOUR

ATTACHMENT D

12/13/2010

PRIORITY POLLUTANT DATA SUMMARY

Date Range: 13/Dec/2005 - 13/Dec/2010 period.

Facility Name: I	RUMFORD/M	EXICO				NPD	S: N	4E01	00552		
	Monthly	Daily	Total Test		Те	st # E	By Gr	oup			
Test Date	(Flow	MGD)	Number	M	V	BN	Ρ	0	A	Clean	Hg
06/14/2006	2.95	2.34	12	9	0	0	0	3	0	F	Ō
· .	Monthly	Daily	Total Test		Те	st # E	By Gr	oup			
Test Date	(Flow	MGD)	Number	М	V	BN	Р	0	Α	Clean	Hg
09/23/2009	NR	NR	1	1	0	0	0	0	0	F	ō
	Monthly	Daily	Total Test		Te	st # E	3v Gr	oup			
Test Date	(Flow	MGD)	Number	M	V	BN	P	Ó	Α	Clean	Hg
09/24/2009	0.86	0.76	14	8	0	0	0	6	0	F	ō
	Monthly	Daily	Total Test		Te	st # E	Sv Gr	oup			
Test Date	(Flow	-	Number	М	V	BN	P	Ò	A	Clean	Hg
12/15/2009	1.34	1.19	14	9	0	0	0	5	0	F	õ
	Monthly	Daily	Total Test		Те	st # E	y Gr	oup			
Test Date	(Flow	-	Number	м	V	BN	P	0	Α	Clean	Hg
03/17/2010	2.16	1.75	14	9	0	0	0	5	0	F	ō
	Monthly	Daily	Total Test		Tes	st # B	v Gr	оир	į		
Test Date	(Flow	-	Number	м	V	BN	P	0	A	Clean	Hg
06/10/2010	0.89	0.92	133	13	28	46	25	10	11	F	0

Key:

A = Acid BN = Base Neutral M = Metals

0 = Others

P = Pesticides

V = Volatiles

State of Maine - Department of Environmental Protection

Page No. 1

OF ENVIRUNME

FACILITY CHEMICAL DATA REPORT

Data Date Range: 13/Dec/2005 - 13/Dec/2010

Showing all data



Facility name: RUMFORD/MEXICO	Permit N	lumber: ME0100552	
Parameter: 1,1,1-TRICHLOROETHANE	Test date	Result (ug/l)	Lsthan
Parameter: 1,1,2,2-TETRACHLOROET	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,1,2-TRICHLOROETHANE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,1-DICHLOROETHANE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,1-DICHLOROETHYLENE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2-(0)DICHLOROBENZE	06/10/2010	3.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2,4-TRICHLOROBENZEN	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2-DICHLOROETHANE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2-DICHLOROPROPANE	06/10/2010	3.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2-DIPHENYLHYDRAZINE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,2-TRANS-DICHLOROET	06/10/2010	8.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,3-(M)DICHLOROBENZE	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,3-DICHLOROPROPYLEN	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 1,4-(P)DICHLOROBENZEN	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 2,4,6-TRICHLOROPHENOL	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 2,4-DICHLOROPHENOL	06/10/2010	3.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 2,4-DIMETHYLPHENOL	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
Parameter: 2,4-DINITROPHENOL	06/10/2010	5.000	Y
	Test date	Result (ug/l)	Lsthan
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State of Maine - Department of Environmental Protection

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Parameter:4-NITROPHENOLTest dateResult (
06/10/2010 5.000	
Parameter: A-BHC Test date Result (ıg/l)
06/10/2010 0.050	
Parameter: ACENAPHTHENE Test date Result (ig/l)
06/10/2010 5.000	
Parameter:ACENAPHTHYLENETest dateResult (ıg/l)
06/10/2010 5.000	
Parameter: ACROLEIN Test date Result (1 g/l)
06/10/2010 5.000	
Parameter: ACRYLONITRILE Test date Result (
06/10/2010 25.00	ıg/1)
Parameter: A-ENDOSULFAN Test date Result ()
06/10/2010 0.050)

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Parameter	* ALDRIN	Test date	Result (ug/l)	Lsthan
		06/10/2010	0.050	Y
Parameter	: ALUMINUM	Test date	Result (ug/l)	Lsthan
	·	06/14/2006	35.500	N
		09/24/2009	60.000	N
		12/15/2009	40.000	N
		03/17/2010	70.000	Ν
		06/10/2010	50.000	N
Parameter	AMMONIA	Test date	Result (ug/l)	Lsthan
		06/14/2006	4670.000	N
		09/24/2009	18000.000	N
		12/15/2009	12000.000	N
		03/17/2010	9100.000	N
		06/10/2010	17000.000	N
Parameter	ANTHRACENE	Test date	Result (ug/l)	Lsthan
		06/10/2010	5.000	Y
Parameter	ANTIMONY	Test date	Result (ug/l)	Lsthan
		06/10/2010	0.200	N
Parameter	ARSENIC	Test date	Result (ug/l)	Lsthan
		06/14/2006	5.000	Ŷ
		09/24/2009	1.200	Ý
		12/15/2009	3.000	N
		03/17/2010	1.200	Y
		06/10/2010	2.000	N
Parameter	B-BHC	Test date	Result (ug/i)	Lsthan
		06/10/2010	0.050	Ŷ
Parameter	B-ENDOSULFAN	Test date	Result (ug/l)	Lsthan
		06/10/2010	0.050	Y
Parameter	BENZENE	Test date	Result (ug/l)	Lsthan
		06/10/2010	5.000	Ŷ
Parameter	BENZIDINE		Result (ug/l)	•
		06/10/2010	24.000	v
Donomotor	BENZO(A)ANTHRACENE	06/10/2010	24.000 Result (ug/l)	Y
Farameter	BENZO(A)ANTHRACENE		Result (ug/1)	LStnan
		06/10/2010	8.000	Y
Parameter	BENZO(A)PYRENE	Test date	Result (ug/l)	Lsthan
		06/10/2010	3.000	Ŷ
Parameter:	BENZO(G,H,I)PERYLENE		Result (ug/l)	•
		06/10/2010		Y
Parameter	BENZO(K)FLUORANTHENE	Test date		-
	.,			
Parameter	BERYLLIUM	06/10/2010 Test date	3.000 Result (ug/l)	Y Isthan
		A A A . A		
n		06/10/2010	0.070	N
Parameter	BIS(2-CHLOROETHOXY)M	Test date		Lsthan
	BIS(2-CHLOROETHOXY)M BIS(2-CHLOROETHYL)ETH	Test date 06/10/2010	Result (ug/l) 5.000	Lsthan

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	06/10/2010	6.000	Y
Parameter: BIS(2-CHLOROISOPROPY	Test date	Result (ug/l)	Lsthan
	06/10/2010	6.000	Υ
Parameter: BIS(2-ETHYLHEXYL)PHTH.	Test date	Result (ug/l)	Lsthan
	06/10/2010	3.000	N
Parameter: BROMOFORM	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: BUTYLBENZYL PHTHALATI	Test date		Lsthan
	06/10/2010	5.000	Y
Parameter: CADMIUM	Test date	Result (ug/l)	Lsthan
	06/14/2006	1.000	Ŷ
	09/24/2009	0.120	Y
	09/24/2009	5.000	Y
	12/15/2009	0.045	Y
	03/17/2010	0.045	Y
	06/10/2010	0.047	N
Parameter: CALCIUM	Test date	Result (ug/l)	Lsthan
	09/24/2009	17300.000	N
	12/15/2009	13100.000	Ν
	03/17/2010	14700.000	N
	06/10/2010	13400.000	N
Parameter: CARBON TETRACHLORIDE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ý
Parameter: CHLORDANE	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.100	Ŷ
Parameter: CHLORINE	Test date	Result (ug/l)	Lsthan
	09/24/2009	300.000	N
Parameter: CHLOROBENZENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: CHLORODIBROMOMETHAI	Test date	Result (ug/l)	Lsthan
	06/10/2010	3.000	Y
Parameter: CHLOROETHANE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: CHLOROFORM	Test date	Result (ug/i)	Lsthan
	06/10/2010	5.000	Y
Parameter: CHROMIUM	Test date	Result (ug/l)	Lsthan
	06/14/2006	10.000	Υ.Υ
	09/24/2009	0.800	Ν
	12/15/2009	0.800	N
	03/17/2010	0.600	Ν
	06/10/2010	0.320	Y
Parameter: CHRYSENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	3.000	Ŷ
Parameter: COPPER	Test date	Result (ug/i)	Lsthan
	06/14/2006	5.000	N
	09/24/2009	7.000	1 4

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	12/15/2009	9.400	N
	03/17/2010	7.700	N
	06/10/2010	12.200	N
Parameter: CYANIDE	Test date	Result (ug/l)	Lsthan
	06/14/2006	5.000	Y
	12/15/2009	5.000	Y
	03/17/2010	5.000	Y
	06/10/2010	5.400	N
Parameter: D-BHC	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.050	Y
Parameter: DIBENZO(A,H)ANTHRACE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: DICHLOROBROMOMETHAI	Test date	Result (ug/l)	Lsthan
	06/10/2010	3.000	Ŷ
Parameter: DIELDRIN	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.050	Ŷ
Parameter: DIETHYL PHTHALATE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: DIMETHYL PHTHALATE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: DI-N-BUTYL PHTHALATE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: DI-N-OCTYL PHTHALATE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: ENDOSULFAN SULFATE	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.100	Ŷ
Parameter: ENDRIN	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.050	Y
Parameter: ENDRIN ALDEHYDE	Test date	Result (ug/l)	
	06/10/2010	0.050	Ŷ
Parameter: ETHYLBENZENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: FLUORANTHENE		Result (ug/l)	
	06/10/2010	5.000	Ŷ
Parameter: FLUORENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: G-BHC	Test date	Result (ug/l)	
	06/10/2010	0.050	Ŷ
Parameter: HEPTACHLOR		Result (ug/l)	-
	06/10/2010	· · · · · · · · · · · · · · · · · · ·	Ŷ
Parameter: HEPTACHLOR EPOXIDE		Result (ug/l)	
	06/10/2010	0.050	Y
Parameter: HEXACHLOROBENZENE		Result (ug/l)	Lsthan

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•			
Parameter: HEXACHLOROBUTADIENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	2.000	Y
Parameter: HEXACHLOROCYCLOPENT	Test date		Lsthan
	06/10/2010	5.000	Y
Parameter: HEXACHLOROETHANE	Test date	Result (ug/l)	
	06/10/2010	2.000	Y
Parameter: INDENO(1,2,3-CD)PYREN	Test date	Result (ug/l)	
	06/10/2010	5.000	Y
Parameter: ISOPHORONE	Test date		Lsthan
	06/10/2010	5.000	Y
Parameter: LEAD	Test date	Result (ug/l)	Lsthan
	06/14/2006	3.000	Ŷ
	09/24/2009	1.000	Y
	12/15/2009	1.000	Y
	03/17/2010	1.000	Y
	06/10/2010	4.000	N
Parameter: MAGNESIUM	Test date	Result (ug/l)	
	09/24/2009	3320.000	N
	12/15/2009	2320.000	N
	03/17/2010	2180.000	N
	06/10/2010	2340.000	Ν
Parameter: MERCURY	Test date	Result (ug/l)	Lsthan
	12/15/2005	0.008	N
	03/16/2006	0.011	Ν
	06/07/2006	0.010	
	09/20/2006	0.006	N
	01/04/2007	0.006	N
	05/17/2007	0.015	Ν
	05/19/2007	0.009	
	07/12/2007	0.010	N
	09/27/2007	0.007	Ν
	03/27/2008	0.004	Ν
	06/23/2008	0.007	Ν
	09/18/2008	0.003	Ν
	12/29/2008	0.003	Ν
	03/26/2009	0.012	Ν
	06/17/2009	0.007	Ν
	09/22/2009	0.002	N
	12/16/2009	0.003	N
	03/17/2010	0.004	Ν
	06/24/2010	0.008	Ν
	09/28/2010	0.006	N
Parameter: METHYL BROMIDE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: METHYL CHLORIDE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ŷ
Parameter: METHYLENE CHLORIDE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Ý

Parameter: NAPHTHALENE	Test date	Result (ug/l)	Lstha
	06/10/2010	5.000	Ŷ
Parameter: NICKEL	Test date	Result (ug/l)	Lstha
	06/14/2006	5.000	 Ү
	09/24/2009	1.700	N
	12/15/2009	1.400	N
	03/17/2010	1.500	N
	06/10/2010	1.700	N
Parameter: NITROBENZENE	Test date	Result (ug/l)	Lstha
	06/10/2010	5.000	Ŷ
Parameter: N-NITROSODIMETHYLAMI	Test date	Result (ug/l)	
	06/10/2010	2.000	Y
Parameter: N-NITROSODI-N-PROPYL4	Test date	Result (ug/l)	Lstha
	06/10/2010	5.000	Ŷ
Parameter: N-NITROSODIPHENYLAMI	Test date	Result (ug/l)	Lstha
	06/10/2010	5.000	Y
Parameter: PCB-1016	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Ý
Parameter: PCB-1221	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Y
Parameter: PCB-1232	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Y
Parameter: PCB-1242	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Y
Parameter: PCB-1248	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Ŷ
Parameter: PCB-1254	Test date	Result (ug/l)	Lstha
	06/10/2010	0.300	Y
Parameter: PCB-1260	Test date		•
arangaar too 1200		Kesuit (ug/i)	
	06/10/2010	0.200	Y
Parameter: P-CHLORO-M-CRESOL	Test date		Lstha
	06/10/2010	5.000	Y
Parameter: PENTACHLOROPHENOL	Test date		
	06/10/2010	5.000	Ŷ
Parameter: PHENANTHRENE	Test date		-
	06/10/2010	5.000	Y
Parameter: PHENOL	Test date	Result (ug/l)	Lsthar
	06/10/2010	5.000	Y
Parameter: PYRENE	Test date	Result (ug/l)	Lsthar
	06/10/2010	5.000	Y
Parameter: SELENIUM	Test date	Result (ug/l)	Lsthar
	06/10/2010	3.700	Ŷ

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ana terrikakan di menangkan penangkan periodakan penangkan penangkan penangkan penangkan penangkan penangkan p Penangkan penangkan p	06/14/2006	1.000	Y
	09/23/2009	0.800	Y
	12/15/2009	0.085	N
	03/17/2010	0.054	Y
	06/10/2010	0.070	N
Parameter: TETRACHLOROETHYLENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: THALLIUM	Test date	Result (ug/l)	Lsthan
	06/10/2010	0.011	Y
Parameter: TOLUENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: TOXAPHENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	1.000	Y
Parameter: TRICHLOROETHYLENE	Test date	Result (ug/l)	Lsthan
	06/10/2010	3.000	Y
Parameter: VINYL CHLORIDE	Test date	Result (ug/l)	Lsthan
	06/10/2010	5.000	Y
Parameter: ZINC	Test date	Result (ug/l)	Lsthan
	06/14/2006	20.000	N
	09/24/2009	19.800	N
	12/15/2009	32.700	Ν
	02/17/2010	25.400	N
	03/17/2010	23.400	1.4

CHEMICAL EVALUATION REPORT (WATERSHED)

Report ID: 316 Data Date Range: 18/Nov/2005 - 18/Nov/2010



Facility: RUMFORD/MEXIC	Ō	Permit	Number: ME0100552
Receiving Water: ANDROSC	OGGIN RIVER	Fresh or Salt: F	Complete Mix: ?
Dilution Factors: Acute:	406.7 Chronic: 4	106.7 Health: 698.	9 Licensed Flow: 2.7
Water Quality Assumptions:	Reserve (%): 15.0	Background (%): 10	1.0 Temperature: 25.0
	Hardness: 20.0	PH: 7.0	Salinity: 0.0

Historical Average Date: 17/Nov/2010

11/18/2010

Specific pollutants with reasonable potential: Number of parameters found = 4

Pollutant: ALUMINUM	Reporting Li	mit : 0.0	Sample Number: 5	5
Coefficient of Variation: 0.6 Reasona	ble Potential Factor: 2.3			
Historical Average: 1.12936	RP Historical Average: 2.5	597528		
Assimilative Capacity:	Acute	Chronic	Health	
Pounds per day	N/A	1.03308	S N/A	
Exceedence ug/L		46.74		
RP ug/L		20.32		

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

Exceedence or Reasonable Potential and Basis

Flag	Daily Flow	Date	Concentration	Mass	Acute	Chronic	Health
IN	2.3400	06/14/2006	35.5	0.6928		Y	
IN	0.7600	09/24/2009	60	0.3803			
IN	1.1900	12/15/2009	40	0.39698			
IN	1.7500	03/17/2010	70	1.02165		Y	
IN	0.9200	06/10/2010	50	0.38364			-

Pollutant: COPPER	Reporting	Limit: 3.0	Sample Number: 5
Coefficient of Variation: 0.6 Reaso	onable Potential Factor: 2.	3	
Historical Average: 0.182554	RP Historical Average: C).4198742	
Assimilative Capacity:	Acute	Chronic	Health
Pounds per day	0.178554	S 0.271652	S N/A
Exceedence ug/I	- 8.08	12.29	
RP ug/L	3.51	5.34	

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

Exceedence or Reasonable Potential and Basis

Flag	Daily Flow	Date	Concentration	Mass	Acute	Chronic	Health
IN	2.3400	06/14/2006	5	0.09758	Y		
IN	0.7600	09/24/2009	7	0.04437			
IN	1.1900	12/15/2009	9.4	0.09329	Y		
IN	1.7500	03/17/2010	7.7	0.11238	Y		
	IN IN IN	IN 2.3400 IN 0.7600 IN 1.1900	IN2.340006/14/2006IN0.760009/24/2009IN1.190012/15/2009	IN 2.3400 06/14/2006 5 IN 0.7600 09/24/2009 7 IN 1.1900 12/15/2009 9.4	IN 2.3400 06/14/2006 5 0.09758 IN 0.7600 09/24/2009 7 0.04437 IN 1.1900 12/15/2009 9.4 0.09329	IN 2.3400 06/14/2006 5 0.09758 Y IN 0.7600 09/24/2009 7 0.04437 IN 1.1900 12/15/2009 9.4 0.09329 Y	IN 2.3400 06/14/2006 5 0.09758 Y IN 0.7600 09/24/2009 7 0.04437 IN 1.1900 12/15/2009 9.4 0.09329 Y

Pollutant: LEAD	Reporting L	mit: 3.0	Sample Number:
Coefficient of Variation: 0.6 Reasonab	le Potential Factor: 2.3		
Historical Average: 0.044202	RP Historical Average: 0.	1016646	
Assimilative Capacity:	Acute	Chronic	Health
Pounds per day	N/A	0.0748	S N/A
Exceedence ug/L		3.38	
RP ug/L		1.47	

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

Exceedence or Reasonable Potential and Basis

Flag	Daily Flow	Date	Concentration	Mass	Acute	Chronic	Health
IN	2.3400	06/14/2006	<3	'			
IN	0.7600	09/24/2009	<1				
IN	1.1900	12/15/2009	<1				
IN	1.7500	03/17/2010	<1				
IN	0.9200	06/10/2010	4	0.03069			

Pollutant: ZINC	Reporting Lin	nit: 5.0	Sample Number: 5	
Coefficient of Variation: 0.6 Reasona	ble Potential Factor: 2.3			
Historical Average: 0.554735	RP Historical Average: 1.2	758905		
Assimilative Capacity:	Acute	Chronic	Health	
Pounds per day	1.01629 S	N/A	N/A	
Exceedence ug/L	45,98			
RP ug/L	19.99			

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

Exceedence or Reasonable Potential and Basis

Flag	Daily Flow	Date	Concentration	Mass	Acute	Chronic	Health
IN	2.3400	06/14/2006	20	0.39031			
IN	0.7600	09/24/2009	19.8	0.1255			
IN	1.1900	12/15/2009	32.7	0.32453			
IN	1.7500	03/17/2010	25.4	0.37071			
IN	0.9200	06/10/2010	27.6	0.21177			

ATTACHMENT E

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

MEMORANDUM

DATE: October 2008

TO: Interested Parties

FROM: Dennis Merrill, DEP

SUBJECT: DEP's system for evaluating toxicity from multiple discharges

Following the requirements of DEP's rules, Chapter 530, section 4(F), the Department is evaluating discharges of toxic pollutants into a freshwater river system in order to prevent cumulative impacts from multiple discharges. This is being through the use of a computer program known internally as "DeTox". The enclosed package of information is intended to introduce you to this system.

Briefly, the DeTox program evaluates each wastewater facility within a watershed in three different ways in order to characterize its effluent: 1) the facility's past history of discharges, 2) its potential toxicity at the point of discharge on an individual basis, and 3) the facility's contribution to cumulative toxicity within a river segment in conjunction with other facilities. The value that is most protective of water quality becomes the value that is held in the DeTox system as an allocation for the specific facility and pollutant.

The system is not static and uses a five-year "rolling" data window. This means that, over time, old test results drop off and newer ones are added. The intent of this process is to maintain current, uniform facility data to estimate contributions to a river's total allowable pollutant loading prior to each permit renewal.

Many facilities are required to do only a relatively small amount of pollutant testing on their effluent. This means, statistically, the fewer tests done, the greater the possibility of effluent limits being necessary based on the facility's small amount of data. To avoid this situation, most facilities, especially those with low dilution factors, should consider conducting more than the minimum number of tests required by the rules.

Attached you will find three documents with additional information on the DeTox system:

- Methods for evaluating the effects of multiple discharges of toxic pollutants
- Working definitions of terms used in the DeTox system
- Reviewing DeTox Reports
- Prototype facility and pollutant reports

If you have questions as you review these, please do not hesitate to contact me at <u>Dennis.L.Merrill@maine.gov</u> or 287-7788.

Maine Department of Environmental Protection

Methods for evaluating the effects of multiple discharges of toxic pollutants.

Reference: DEP Rules, Chapter 530, section 4(F)

To evaluate discharges of toxic pollutants into a freshwater river system and prevent cumulative impacts from multiple discharges, DEP uses a computer program called "DeTox that functions as a mathematical evaluation tool.

It uses physical information about discharge sources and river conditions on file with the Department, established water quality criteria and reported effluent test information to perform these evaluations. Each toxic pollutant and associated water quality criterion for acute, chronic and/or human health effects is evaluated separately.

Each facility in a river drainage area has an assigned position code. This "address" is used to locate the facility on the river segment and in relation to other facilities and tributary streams. All calculations are performed in pounds per day to allow analysis on a mass balance. Pollutants are considered to be conservative in that once in the receiving water they will not easily degrade and have the potential to accumulate.

The process begins with establishing an assimilative capacity for each pollutant and water quality criterion at the most downstream point in the river segment. This calculation includes set-aside amounts for background and reserve quantities and assumed values for receiving water pH, temperature and hardness. The resulting amount of assimilative capacity is available for allocation among facilities on the river.

Each facility is evaluated to characterize its past discharge quantities. The historical discharge, in pounds per day, is figured using the average reported concentration and the facility's permitted flow. As has been past practice, a reasonable potential (RP) factor is used as a tool to estimate the largest discharge that may occur with a certain degree of statistical certainty. The RP factor is multiplied by the historical average to determine an allocation based on past discharges. The RP factor is also multiplied by the single highest test to obtain a maximum day estimate. Finally, the direct average without RP adjustment is used to determine the facility's percent contribution to the river segment in comparison to the sum of all discharges of the pollutant. This percent multiplied by the total assimilative capacity becomes the facility's discharge allocation used in evaluations of the segment loadings.

Additionally, individual facility discharges are evaluated as single sources, as they have been in the past to determine if local conditions are more limiting than a segment evaluation.

With all of this information, facilities are evaluated in three ways. The methods are:

- 1. The facility's past history. This is the average quantity discharged during the past five years multiplied by the applicable RP factor. This method is often the basis for an allocation when the discharge quantity is relatively small in comparison to the water quality based allocation.
- 2. An individual evaluation. This assumes no other discharge sources are present and the allowable quantity is the total available assimilative capacity. This method may be used when a local condition such as river flow at the point of discharge is the limiting factor.
- 3. A segment wide evaluation. This involves allocating the available assimilative capacity within a river segment based on a facility's percent of total past discharges. This method would be used when multiple discharges of the same pollutant to the same segment and the available assimilative capacity is relatively limited.

The value that is most protective of water quality becomes the facility's allocation that is held in the system for the specific facility and pollutant. It is important to note that the method used for allocation is facility and pollutant specific and different facilities on the same segment for the same pollutant can have different methods used depending on their individual situations.

Discharge amounts are always allocated to all facilities having a history of discharging a particular pollutant. This does not mean that effluent limits will be established in a permit. Limits are only needed when past discharge amounts suggest a reasonable potential to exceed a water quality based allocation, either on an individual or segment basis. Similar to past practices for single discharge evaluations, the single highest test value is multiplied by a RP factor and if product is greater than the water quality allowance, an effluent limit is established. It is important to remember an allocation is "banking" some assimilative capacity for a facility even if effluent limits are not needed.

Evaluations are also done for each tributary segment with the sum of discharge quantities in tributaries becoming a "point source" to the next most significant segment. In cases where a facility does not use all of its assimilative capacity, usually due to a more limiting individual water quality criterion, the unused quantity is rolled downstream and made available to other facilities.

The system is not static and uses a five-year rolling data window. Over time, old tests drop off and newer ones are added on. These changes cause the allocations and the need for effluent limits to shift over time to remain current with present conditions. The intent is to update a facility's data and relative contribution to a river's total assimilative capacity prior to each permit renewal. Many facilities are required to do only minimal testing to characterize their effluents. This creates a greater degree of statistical uncertainty about the true long-term quantities. Accordingly, with fewer tests the RP factor will be larger and result in a greater possibility of effluent limits being necessary. To avoid this situation, most facilities, especially those with relatively low dilution factors, are encouraged to conduct more that a minimum number of tests. It is generally to a facility's long-term benefit to have more tests on file since their RP factor will be reduced.

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Working Definitions of Terms Used in the DeTox System.

Allocation. The amount of pollutant loading set aside for a facility. Separate amounts are set for each *water quality criterion*. Each pollutant having a history of being discharged will receive an allocation, but not all allocations become *effluent limits*. Allocation may be made in three ways: *historical allocation, individual allocation* or *segment allocation*.

Assimilative capacity. The amount of a pollutant that river segment can safely accept from point source discharges. It is determined for the most downstream point in a river segment using the *water quality criterion* and river flow. Separate capacities are set for acute, chronic and human health criteria as applicable for each pollutant. Calculation of this capacity includes factors for *reserve* and *background* amounts.

Background. A concentration of a pollutant that is assumed to be present in a receiving water but not attributable to discharges. By rule, this is set as a rebuttable presumption at 10% of the applicable *water quality criterion*.

Effluent limit. A numeric limit in a discharge permit specifically restricting the amount of a pollutant that may be discharged. An effluent limit is set only when the highest discharge, including an adjustment for *reasonable potential*, is greater than a facility's water quality based *allocation* for a pollutant.

Historical allocation (or *RP history*). One of three ways of developing an *allocation*. The facility's average history of discharges, in pounds at design flow, is multiplied by the appropriate *reasonable potential* factor. An allocation using this method does not become an *effluent limit*.

Historical discharge percentage. For each pollutant, the average discharge concentration for each facility in a segment is multiplied by the permitted flow (without including a *reasonable potential* factor). The amounts for all facilities are added together and a percent of the total is figured for each facility. When a facility has no detectable concentrations, that pollutant is assumed to be not present and it receives no percentage.

Individual allocation. One of three ways of developing an *allocation*. The facility's single highest discharge on record multiplied by the appropriate *reasonable potential* factor is compared to a water quality based quantity with an assumption that the facility is the only point source to that receiving water. If the RP-adjusted amount is larger, the water quality amount may become an *effluent limit*.

Less than. A qualification on a laboratory report indicating the concentration of a pollutant was below a certain concentration. Such a result is evaluated as being one half of the Department's reporting limit in most calculations.

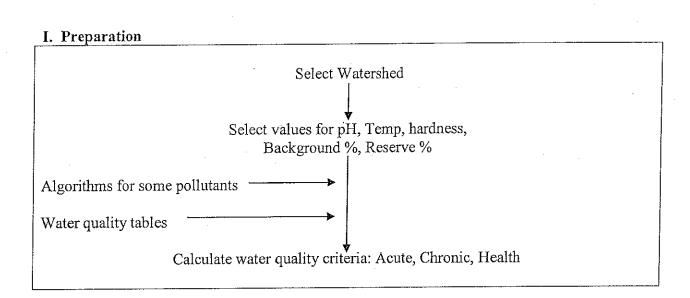
Reasonable potential (RP). A statistical method to determine the highest amount of a pollutant likely to be present at any time based on the available test results. The method produces a value or RP factor that is multiplied by test results. The method relies on an EPA guidance document, and considers the coefficient of variation and the number of tests. Generally, the fewer number of tests, the higher the RP factor.

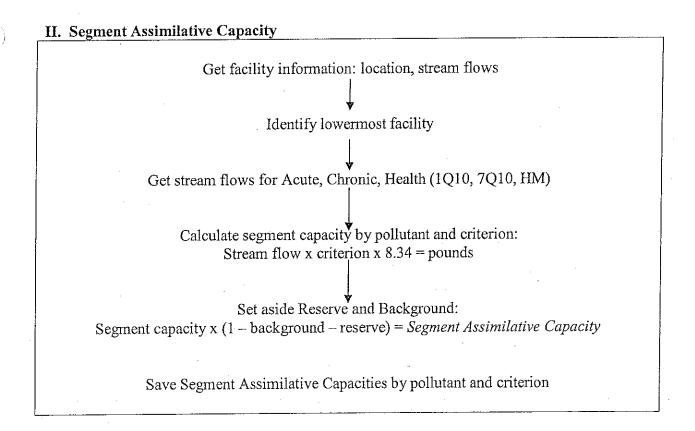
Reserve. An assumed concentration of a pollutant that set aside to account for non-point source of a pollutant and to allow new discharges of a pollutant. By rule this is set at 15% of the applicable *water quality criterion*.

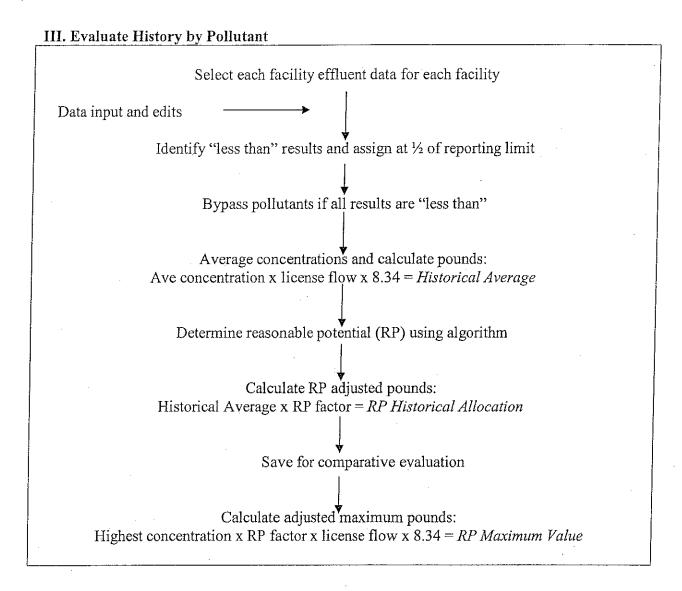
Segment allocation. One of three ways of developing an allocation. The amount is set by multiplying a facility's historical discharge percentage for a specific pollutant by the assimilative capacity for that pollutant and criterion. A facility will have different allocation percentages for each pollutant. This amount may become an *effluent limit*.

Tributary. A stream flowing into a larger one. A total pollutant load is set by adding the all facilities *allocations* on the tributary and treating this totaled amount as a "point source" to the next larger segment.

Water quality criteria. Standards for acceptable in-stream or ambient levels of pollutants. These are established in the Department's Chapter 584 and are expressed as concentrations in ug/L. There may be separate standards for acute and chronic protection aquatic life and/or human health. Each criterion becomes a separate standard. Different stream flows are used in the calculation of each.



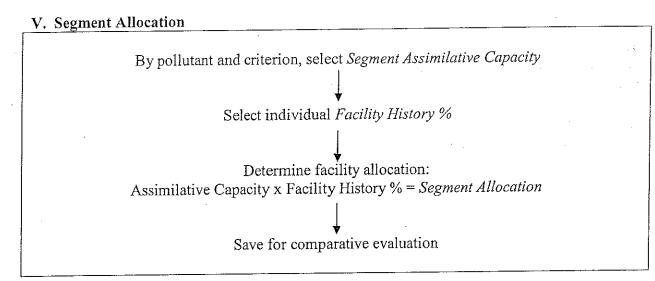




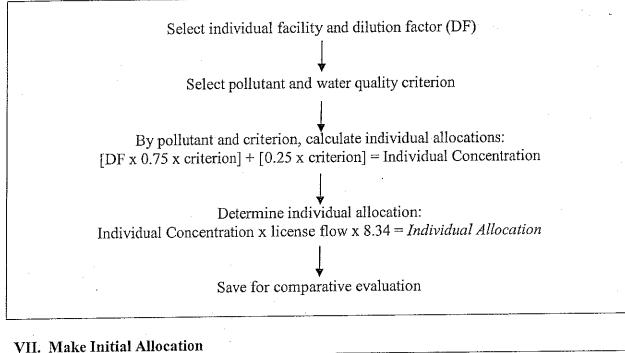
IV. Determine Facility History Percentage By pollutant, identify facilities with Historical Average

Sum all Historical Averages within segment

By facility, calculate percent of total: Facility pounds / Total pounds = *Facility History %*



VI. Individual Allocation

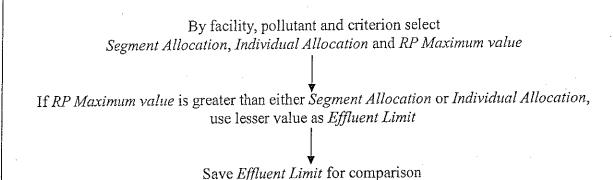


By facility, pollutant and criterion, get: Individual Allocation, Segment Allocation, RP Historical Allocation

Compare allocation and select the smallest

Save as Facility Allocation

VIII. Evaluate Need for Effluent Limits



IX. Reallocation of Assimilative Capacity

Starting at top of segment, get Segment Allocation, Facility Allocation and Effluent Limit

If Segment Allocation equals Effluent Limit, move to next facility downstream

If not, subtract Facility Allocation from Segment Allocation

Save difference

Select next facility downstream

Figure remaining Segment Assimilative Capacity at and below facility, less tributaries

Add saved difference to get an adjusted Segment Assimilative Capacity

Reallocate Segment Assimilative Capacity among downstream facilities per step V

Repeat process for each facility downstream in turn

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A. GENERAL PROVISIONS

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

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

- (a) They are not
 - (i) Designated as toxic or hazardous under the provisions of Sections 307 and 311, respectively, of the Federal Water Pollution Control Act; Title 38, Section 420, Maine Revised Statutes; or other applicable State Law; or
 - (ii) Known to be hazardous or toxic by the licensee.
- (b) The discharge of such materials will not violate applicable water quality standards.

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

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

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

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

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

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

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

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

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

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

11. Other laws. The issuance of this permit does not authorize any injury to persons or property or invasion of other property rights, nor does it relieve the permittee 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.

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STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

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.

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

STANDARD CONDITIONS APPLICABLE TO ALL PERMITS

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.



DEP INFORMATION SHEET Appealing a Commissioner's Licensing Decision

Dated: May 2004

Contact: (207) 287-2811

SUMMARY

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

I. ADMINISTRATIVE APPEALS TO THE BOARD

LEGAL REFERENCES

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

HOW LONG YOU HAVE TO SUBMIT AN APPEAL TO THE BOARD

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

HOW TO SUBMIT AN APPEAL TO THE BOARD

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

WHAT YOUR APPEAL PAPERWORK MUST CONTAIN

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

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

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

OTHER CONSIDERATIONS IN APPEALING A DECISION TO THE BOARD

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

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

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

II. APPEALS TO MAINE SUPERIOR COURT

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

ADDITIONAL INFORMATION

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

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