

NPDES PERMIT

issued to

Lake Waramaug Interlocal Commission
19 Sackett Hill Road
Warren, CT 06754

Location Address:

Lake Waramaug Restoration System #2
Arrow Point Road
Washington, CT 06793

Facility ID: 150-007

Permit ID: CT0024805

Receiving Stream: Lake Waramaug

Permit Expires: April 8, 2014

SECTION 1: GENERAL PROVISIONS

- (A) This permit is reissued in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and section 402(b) of the Clean Water Act, as amended, 33 USC 1251, et. seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer an N.P.D.E.S. permit program.
- (B) Lake Waramaug Interlocal Commission, ("Permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.
- (l) Establishing Effluent Limitations and Conditions
- (m) Case by Case Determinations
- (n) Permit issuance or renewal
- (o) Permit Transfer
- (p) Permit revocation, denial or modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements for Metals and Cyanide
- (t) Discharges to POTWs - Prohibitions

- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Environmental Protection ("Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner, at least 30 days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the Permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (H) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the Regulations of Connecticut State Agencies.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and section 22a-430-3(a) and 22a-430-6 of the RCSA, except for "No Observable Acute Effect

Level (NOAEL)" which is redefined below.

(B) In addition to the above, the following definitions shall apply to this permit:

"-----" in the limits column on the monitoring table means a limit is not specified but a value must be reported on the DMR

"Depth Stratum" means section or layer of the lake.

"Wastewater" means section or layer of the lake.

"No Observable Acute Effect Level (NOAEL)" means any concentration equal to or less than the critical test concentration in a single concentration (pass/fail) toxicity test conducted pursuant to section 22a-430-3(j)(7)(A)(i) RCSA demonstrating greater than 50% survival of test organisms in 100% (undiluted) effluent and 90% or greater survival of test organisms at the CTC.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner, has issued a final determination and found that continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on **Application No. 200202735** for permit reissuance received on June 21, 2002 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

- (A) No discharge shall contain, or cause in the receiving lake water, a visible oil sheen or floating solids; or, cause visible discoloration or foaming in the receiving lake water.
- (B) No discharge shall cause acute or chronic toxicity in the receiving lake water body.
- (C) The temperature of any discharge shall not increase the temperature of the receiving depth stratum of the lake water above 85°F, or, in any case, raise the normal temperature of the receiving depth stratum of the lake more than 4°F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge shall not exceed and shall otherwise conform to the specific terms and conditions listed below. The discharge is restricted by, and shall be monitored in accordance with, the table below:

Table A

Discharge Serial Number: 001

Monitoring Location: 1

Wastewater Description: Hypolimnetic Treatment System Wastewater (***)24.5 +/- 1.5 feet (7.5 +/- 0.5 meter) below spillway elevation for intake location east side of Arrow Point & 20 feet below the surface for discharge west side of Arrow Point)

Monitoring Location Description: Outlet from the hypolimnetic treatment system

Discharge Frequency: May through October

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level Test
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported	
Ammonia, Nitrogen	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
Dissolved Oxygen	mg/l	NA	NA	NR	NA	-----	Weekly	Grab	
Flow, Maximum ¹	gpd	NA	2,500,000	Monthly	Daily Flow	NA	NR	NA	
Iron, Total	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
Nitrogen, Total	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
Phosphorus, Total	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
pH	S.U.	NA	NA	NR	NA	6.0 - 9.0	Monthly	Grab	
Sulfide, Total	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	
Temperature (see Section 4 Paragraph C above)	°F	NA	NA	NR	NA	-----	Monthly	Grab	
Total Suspended Solids (TSS)	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	

Table Footnotes and Remarks:

Footnotes:

¹ For this parameter the Permittee shall maintain at the facility a record of the total flow for each day of discharge and shall report the Maximum Daily Flow for each month.

² The first entry in this column is the 'Sample Frequency'. If a 'Reporting Frequency' does not follow this entry and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.

Remarks:

¹***The inlet and outlet discharge pipe depths from the surface shall not be adjusted at any time without prior written approval from Commissioner.

- (1) All samples shall be comprised of only the wastewater described in this table. Samples shall be collected prior to combination with receiving waters or wastewater of any other type, and after all approved treatment units, if applicable. All samples collected shall be representative of the discharge during standard operating conditions.
- (2) In cases where limits and sample type are specified but sampling is not required by this permit, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Environmental Protection personnel, the Permittee, or other parties.
- (3) The limits imposed on the discharges listed in this permit take effect on the issuance date of this permit, hence any sample taken after this date which, upon analysis, shows an exceedance of permit limits will be considered non-compliance.

The monitoring requirements begin on the date of issuance of this permit if the issuance date is on or before the 12th day of a month. For permits issued on or after the 13th day of a month, monitoring requirements begin the 1st day of the following month.

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

(A) Chemical Analysis

- (1) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved pursuant to the 40 CFR 136 unless an alternative method has been approved in writing pursuant to 40 CFR 136.4 or as provided in section 22a-430-3(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 shall be analyzed in accordance with methods specified in this permit.
- (2) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (3) The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible consistent with the requirements of this section of the permit.

SECTION 7: REPORTING REQUIREMENTS

- (A) The results of chemical analyses and any aquatic toxicity test required above shall be entered on the Discharge Monitoring Report (DMR), provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) at the following address. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at this address by the last day of the month following the month in which samples are collected.

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (B) If this permit requires monitoring of a discharge on a calendar basis (e.g. Monthly, quarterly, etc.), but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR as scheduled, indicating "NO DISCHARGE". For those Permittees whose required monitoring is

discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

SECTION 8: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) The Permittee shall notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division, within 72 hours and in writing within thirty days of the discharge of any substance listed in the application but not listed in the permit if the concentration or quantity of that substance exceeds two times the level listed in the application.

This permit is hereby issued on 4/9/2009

/S/GINA MCCARTHY
COMMISSIONER

GM/cn

DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Lake Waramaug Interlocal Commission

PAMS Company ID: 101225

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: CT0024805

APPLICATION #: 200202735

FACILITY ID. 150-007

<u>Mailing Address:</u>					<u>Location Address:</u>						
Street:	19 Sackett Hill Road				Street:	Arrow Point Road					
City:	Warren	ST:	CT	Zip:	06754	City:	Washington	ST:	CT	Zip:	06793
Contact Name:	Thomas McGowan				DMR Contact	Thomas McGowan					
Phone No.:	(860) 868-0331				Phone No.:	(860) 868-0331					

PERMIT INFORMATION

DURATION 5 YEAR 10 YEAR 30 YEAR

TYPE New Reissuance Modification

CATEGORIZATION POINT (x) NON-POINT () GIS #

NPDES (x) PRETREAT () GROUND WATER(UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR (MA)

NPDES SIGNIFICANT MINOR or PRETREAT SIU (SI)

NPDES or PRETREATMENT MINOR (MI)

PRETREAT SIGNIFICANT INDUS USER (SIU)

PRETREAT CATEGORICAL (CIU)

POLLUTION PREVENTION MANDATE ENVIRONMENTAL EQUITY ISSUE

COMPLIANCE ISSUES

COMPLIANCE SCHEDULE YES NO (If yes check off what it is in relation to.)

POLLUTION PREVENTION TREATMENT REQUIREMENT WATER CONSERVATION

WATER QUALITY REQUIREMENT REMEDIATION OTHER

IS THE PERMITTEE SUBJECT TO A PENDING ENFORCEMENT ACTION? NO YES

OWNERSHIP CODE

Private ___ Federal ___ State ___ Municipal (town only) x Other public ___

DEP STAFF ENGINEER Charles Nezianya

PERMIT FEES

Discharge Code	DSN	Annual Fee
102000a	001	\$262.50

FOR NPDES DISCHARGES

Drainage basin Code: 6502

Present/Future Water Quality Standard: Lake Waramaug

FOR SEWER DISCHARGES N/A

FOR UIC PERMITS NA

Drainage basin Code: n/a

Water Quality Standard: n/a

Total Wells ___ Well Type _____

NATURE OF BUSINESS GENERATING DISCHARGE

Hypolimnetic water treatment system

PROCESS AND TREATMENT DESCRIPTION (by DSN)

Withdrawal and aeration of lake water below the depth of maximum thermal stratification during summer months prior to redirection back to the lake.

RESOURCES USED TO DRAFT PERMIT

- ___ Federal Effluent Limitation Guideline 40 CFR
name of category
- ___ Performance Standards

- | | | |
|----------|--|------------------|
| — | Federal Development Document | name of category |
| — | Treatability Manual | |
| <u>x</u> | Department File Information | |
| <u>x</u> | Connecticut Water Quality Standards | |
| — | Anti-degradation Policy | |
| — | Coastal Management Consistency Review Form | |
| — | Other - Explain | |

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- | | |
|----------|--|
| <u>x</u> | Best Available Technology (BAT)/Best Professional Judgment (See Other Comments) - All the parameters in Table A. |
| <u>x</u> | BAT/Case-by-Case Determination (See Other Comments)- All the parameters in Table A. |

OTHER COMMENTS

This is a permit renewal for Lake Waramaug water clarity and quality restoration project. The treatment process involves withdrawal of 2.5 MGD of water from the hypolimnetic level of the lake to a basin concrete tank where the water is circulated and aerated prior to discharging it back into the lake at approximately the same level of withdrawal.

The Bureau of Water Protection and Land Reuse staff was consulted as part of this application review. Specifically, we discussed this reissuance with Chuck Lee of Lakes Management, Traci Iott and Rosemary Gatter-Evart of Aquatic Toxicity program and they concurred with this permit reissuance.