MODIFICATION OF AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§26-53),

Town of Belchertown Department of Public Works
290 Jackson Street, P.O. Box 306
Belchertown, Massachusetts 01007 - 0670

is authorized to discharge from a facility located at

Belchertown Water Reclamation Facility
175 George Hannum Road
Belchertown, Massachusetts 01007

to receiving waters named **Lampson Brook to Connecticut River**

in accordance with effluent limitations monitoring requirements and other conditions set forth in the permit issued on June 9, 2005, except as set forth herein and listed as follows:

Page 2 of 10. Elimination of BOD and TSS mass limits.

Page 3 of 10. Elimination of phosphorus mass limits.

Page 4 of 10. Modification of Footnote 1. From the **annual average** flow to a **monthly average** flow.
This modification shall become effective 60 days after date of signature.

This permit modification and the authorization to discharge expires at midnight, October 30, 2010.

Signed this 16th day of December, 2005

/s/ SIGNATURE ON FILE

Linda M. Murphy, Director
Office of Ecosystem Protection
Environmental Protection Agency
Boston, MA

Director
Division of Watershed Management
Department Environmental Protection
Commonwealth of Massachusetts
Boston, MA

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date and lasting through expiration, the permittee is authorized to discharge treated effluent from outfall serial number 001. Such discharge shall be limited and monitored by the permittee as specified below.

Effluent Characteristic	Units	Discharge Limitation			Monitoring Requirement	
		Average Monthly	Average Weekly	Maximum Daily	Measurement Frequency	Sample Type
Flow	MGD	1.0[1]	----	Report	Continuous[2]	Recorder
BOD_5 (June 1-October 31)	mg/l	5.0	7.5	Report	1/Week[3]	24-Hour Composite[4]
BOD_5 (May)	mg/l	15	15	Report	1/Week[3]	24-Hour Composite[4]
BOD_5 (November 1 - April 30)	mg/l	30	30	Report	1/Week[3]	24-Hour Composite[4]
TSS (June1 - October 31)	mg/l	15	15	Report	1/Week[3]	24-Hour Composite[4]
TSS (May)	mg/l	20	20	Report	1/Week[3]	24-Hour Composite[4]
TSS (November 1 - April 30)		30	30	Report	1/Week[3]	24-Hour Composite[4]
pH	s.u	(See Condition I.A.1.b. on Page 5 of 10)			Daily	Grab

Effluent Characteristic Part I.A.1- Continuation	Units	Discharge Limitation			Monitoring Requirement	
		Average Monthly	Average Weekly	Maximum Daily	Measurement Frequency	Sample Type
Total Ammonia, as N (May)	mg/l	7	7	10	1/ month	24-Hour Composite[4]
(June 1 to October 31)	mg/l	1	1	1	1/ month	24-Hour Composite[4]
(November 1 to April 30)	mg/l	10	10	10	1/ month	24-Hour Composite[4]
Fecal Coliform[5] (April 1 - October 31)	cfu/100 ml	200	----	400	1/week	Grab
Nitrite+Nitrate Nitrogen	mg/l	Report	----	----	1/ month	24-Hour Composite[4]
Total Kjeldahl Nitrogen	mg/l	Report	----	----	1/ month	24-Hour Composite[4]
Dissolved Oxygen	mg/l	$\geq$ 6.0	----	----	1/week	Grab
LC_{50}[6]	%	----	----	$\geq$100	4/Year	See protocol
C-NOEC [7]	%	----	----	$\geq$ 94	4/Year	See protocol
Copper	ug/l	9.4	----	14.0	1/month	24- Hour Composite[4]
Aluminum	ug/l	Report	----	Report	1/month	24- Hour Composite[4]
Phosphorus	mg/l	0.25	-----	----	1/week	24- Hour Composite[4]

Footnotes:

1 The flow limit is **monthly average.** The permittee shall report the average and maximum daily flow each month.

2. For flow, report maximum and minimum daily rates and total flow for each operating date.

3. Sampling required for influent and effluent.

4. A 24-hour composite sample will consist of at least twenty four (24) grab samples taken during one working day (e.g 6:00 AM - 5:59 AM, Monday - Tuesday).

5. This is a State certification requirement. The monthly average limit is expressed as a geometric mean
and shall be measured and reported in colony forming units (cfu) per 100 milliliters.

6. The LC_{50} is the concentration of effluent which causes mortality to 50% of the test organisms. Therefore,
a 100% limit means that a sample of 100% effluent (no dilution) shall cause no more than a 50% mortality rate.

7 C-NOEC is the highest effluent concentration at which No Observed Chronic Effect (e.g. growth, reproduction, mortality) will occur at continuous exposure to test organisms (in a life-cycle or partial life- cycle test). The "94% or greater" is defined as a sample which is composed of 94% (or greater) effluent, the remainder being dilution water.

8. The permittee shall conduct chronic (and modified acute) toxicity tests four times per year using the species Ceriodaphnia dubia. The permittee shall conduct chronic (and modified acute) toxicity tests during the second week of the month of February, May, August, and November. Results are to be submitted by the 30th day of the month after the sample i.e. March, June, September and December, See Toxicity Test Procedure and Protocol on Attachment A.

9. The minimum level (ML) for copper is defined as 5 ug/l. This value is the minimum level for copper using the Furnace Atomic Absorption analytical method (EPA Method 220.2). For effluent limitations of less than 5 ug/l, compliance/non-compliance will be determined based on the ML from this method, or another approved method that has an equivalent or lower ML, one of which must be used. Sample results of 5 ug/l or less shall be reported as zero on the Discharge Monitoring Report.

Part I.A.1. (Continued)

a. The discharge shall not cause a violation of the water quality standards of the receiving waters.