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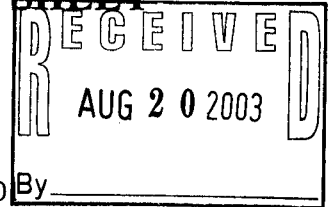
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DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: City of Danbury

PAMS ID: 92340



PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: CT0100145

APPLICATION #: 199300515

FACILITY ID: 034-00

<u>Mailing Address:</u> City of Danbury Street: 155 Deer Hill Road City: Danbury ST: CT Zip: 06810 Contact Name: William Buckley Jr. Phone No.: 203-797-4637	<u>Location Address:</u> Danbury WPFC Street: Newtown Road City: Danbury ST: CT Zip: 06810 Contact Name: Matthew Isles Phone No.: 203-748-9116
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PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR ___ 30 YEAR ___

TYPE New ___ Reissuance X Modification ___

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

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

NPDES MAJOR(MA) X

NPDES SIGNIFICANT MINOR or PRETREAT SIU (SI)

NPDES or PRETREATMENT MINOR (MI)

COMPLIANCE SCHEDULE YES X NO ___

POLLUTION PREVENTION ___ TREATMENT REQUIREMENT X
WATER QUALITY REQUIREMENT X OTHER ___

OWNERSHIP CODE

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

DEP STAFF ENGINEER Roy Fredricksen

PERMIT FEES

Discharge Code	DSN Number	Annual Fee
111000f	001	\$1920

FOR NPDES DISCHARGES

Drainage basin Code: 6606 Present/Future Water Quality Standard: C/B

NATURE OF BUSINESS GENERATING DISCHARGE

Municipal Sanitary Sewage

PROCESS AND TREATMENT DESCRIPTION (by DSN)
Secondary treatment with nitrification, seasonal disinfection

RESOURCES USED TO DRAFT PERMIT

- Federal Effluent Limitation Guideline 40CFR 133*
Secondary Treatment Category
- Performance Standards*
- Federal Development Document*
name of category
- Department File Information*
- Connecticut Water Quality Standards*
- Anti-degradation Policy*
- Coastal Management Consistency Review Form*
- Other - Explain*

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

- Secondary Treatment*
- Case by Case Determination (See Other Comments)*
- Section 22a-430-4(r) of the Regulations of Connecticut State Agencies*
- In order to meet in-stream water quality (See General Comments)*
- Anti-degradation policy*

GENERAL COMMENTS

Water quality based discharge limitations were included in this permit for consistency with Connecticut Water Quality Standards and criteria, pursuant to 40 CFR 122.44(d).

SPECIFIC COMMENTS

Permit limits for copper, zinc, chlorine, and ammonia were derived from the Total Maximum Daily Load (TMDL) established by the Department of Environmental Protection for Limekiln Brook. The TMDL includes a wasteload allocation (WLA) to the Danbury WPCF for each parameter pursuant to the requirements of Section 303(d) of the Federal Clean Water Act.

Permit limits were calculated from the wasteload allocations consistent with EPA's Technical Support Document for Water Quality-based Toxics Control (EPA/505/2-90-001). Limits are expressed in the permit as concentrations for all parameters based on the long-term average treatment plant performance required to consistently meet the wasteload allocation for each parameter. Mass limits were converted to concentration units by dividing the calculated mass limit by the critical treatment plant flow used to develop the TMDL (13.15cfs for WLA that apply year round and 14.06cfs for WLA that apply during the winter only). Past monitoring data submitted by the Danbury WPCF was used to estimate expected variability in effluent quality (CV = 0.3 for copper and zinc; CV = 1.2 for ammonia). Limits for ammonia included in the previous permit were more restrictive than TMDL/WLA - based limits for the period June through September. These limits were retained in this permit as required to comply with the anti-backsliding provisions of 22a-430-4(l)(4)(A) of the Regulations of Connecticut State Agencies.

The permit includes interim limits for copper and zinc that reflect current performance and a five-year schedule to achieve the reductions in effluent concentrations of these metals necessary to achieve compliance with TMDL/WLA-based final

limits. The permit also includes performance-based limits for chlorine reflecting the expected operation of the dechlorination system. The Department considers compliance with the performance-based limits for chlorine sufficient to meet the WLA for chlorine established in the TMDL.

Several other conditions are included in this permit to address water quality issues. These include:

1. A requirement to perform annual chronic toxicity testing of the discharge to evaluate potential chronic toxicity impacts of the discharge on Limekiln Brook.
2. Minimum Levels (ML) are established for several parameters that require the use of sensitive analytical methods and clean sampling techniques for monitoring effluent quality.