

March 13th, 2009

RE: Sewer Lateral Connections (Hook Ups) – Hook Up Procedures and Benefit Assessment Information

By now you may be aware that the sanitary sewer system from Chester to Deep River is essentially complete and has been operating without incident since January 31, 2009. It is time now for individual hook ups to be started and this memo provides information for you, should you elect to hook up. You are not required to connect to the sewer system unless your on-site system cannot be repaired according to the current public health code. Our sanitarian will make the determination whether a code-compliant repair can be made to a failing septic system.

During this month, this hookup information will be sent to the property owners in Town along Main Street that can now connect to the sewer system. In order to hook up, you will need to comply with hook up requirements as specified in the WPCA regulations and as presented in this document.

The cost of the hook up and application fee is yours, and must also include pumping the septic tank, crushing and backfilling the septic tank and the actual connection to the sewer line. The WPCA suggests that you solicit bids from several Connecticut-licensed plumbers (interior work) and/or drainlayers (exterior work) to obtain the lowest price.

This hook up cost is unrelated to your sewer benefit assessment (\$2,000 base for the first equivalent dwelling unit (EDU) for a single family dwelling and \$750 for each additional residential unit, payable per annum @ 2% for 20 years for homeowners/ \$6,000 base for commercial EDU with surcharge of \$1,000 per each additional EDU based on average water usage).

The hookup cost is also unrelated to your annual sewer use fee (approximately \$680 for single family homeowners – actual figures will be based on building use, water use and actual flow to Deep River). Both the assessment payment and sewer use fee will be billed on a bi-annual basis (which will average approximately \$442 per billing for single family homeowners depending on actual water usage).

The sewer use fee will be calculated off of your average water bill from Connecticut Water Company. If you have a well, you will receive an average bill for all users or you can install a well meter. Water use in excess of a multiple of 157 gallons per day

will increase the number of EDUs to the next integer value (e.g. if your average water use is 158 gpd, you will be charged a sewer use fee for 2 EDUs).

This package of information includes the following:

1. Letter allowing new connections (hook-ups) to begin
2. Article 2 of WPCA regulations
3. Application to Connect

As stated earlier, to construct your connection, you must hire a contractor to perform the work in accordance with Article 2 of the WPCA regulations. Your contractor must have a P-1, P-7, W-8 or W-9 license in the State of Connecticut. The contractor will take the enclosed application, which you must sign, and bring it to the Town Hall at 201 Middlesex Turnpike. After the contractor has produced the necessary insurance certificate, a copy of their license and paid the \$175.00 application fee, they can arrange for the inspection and approval of your work. With the sewer connection made, the contractor must also complete the pumping, demolition and backfilling of the septic tank before the final inspection will certify the connection as finished.

If you have any problems or additional questions, please do not hesitate to call. We will answer your questions as soon as possible. Thank you in advance for your cooperation. We look forward to providing you with excellent service in the years ahead.

Sincerely,

Edward Ward
Chair – Chester WPCA

C: Lee Vito – Chester Sanitarian
Tom Marsh – First Selectman

EXCERPTS FROM THE TOWN OF CHESTER WATER POLLUTION CONTROL AUTHORITY SEWER USE AND POLLUTION CONTROL REGULATIONS*

*Refer to entire regulations document available online at www.chesterct.org

SECTION 1 - GENERAL

Article 1-1 Introduction

These regulations pertain to the installation, use and discharge of waters and waste into public sewers, and building sewers. All the above shall be controlled by this regulation within the Village Sewer Service Area which shall be within the jurisdiction of the Chester Water Pollution Control Authority.

Article 1-2 Definitions

Unless the context specifically indicates otherwise, the meaning of terms used in this regulation shall be as follows:

“Administration” shall mean the “Administration” of the “Sewage Works” and subsurface disposal systems.

“As-built” shall mean the location and elevation of wastewater facilities, surficial features and planimetric data based on field measurement by a licensed Engineer, licensed drain layer or licensed plumber.

“Bedrock” means solid or decomposed rock, commonly called ledge rock, that forms the crust of the earth as a Coherent unit either exposed at the surface of underlying soil or other unconsolidated superficial material.

“BOD” (denoting Biochemical Oxygen Demand) shall mean the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions for five (5) days. The determination of “BOD” shall be performed in accordance with the procedures prescribed in the latest edition of Standard Methods for the Examination of Water and Wastewater.

“Building Drain” shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste, and other drainage pipes inside the walls of the building and conveys it to the “Building Sewer”, beginning five (5) feet (1.5 meters) outside the inner face of the building wall.

"Building Sewer" where the context so indicates or implies, shall mean a pipe connecting a main "Sanitary Sewer" with a building, house, or other property for purpose of conveying sewage of any kind from said property to a main sewer.

"Commercial Sewage" means sewage composed of spent wastewater from commercial businesses. Such sewage may be composed entirely of human wastes or include a combination of human wastes and wastes from human service activities such as restaurants, beauty parlors, laundries, bakeries, etc.

"Domestic Sewage" means sewage that consists of water and human excretions or other waterborne waste incidental to the occupancy of a residential, commercial or industrial building, but not including manufacturing process water, cooling water, wastewater from the water softening equipment, commercial wastewater, blow down from heating or cooling equipment, water from cellar or floor drains, or surface water from roofs, paved surfaces or yard drains.

"Drain Layer" or "Licensed Drain Layer" shall mean either an individual, partnership or corporation to whom the State of Connecticut shall have issued a license to install and repair sewers, sewer connections, house connections, subsurface disposal fields and "Septic Tank" systems, during the period when such license is valid, and the proper agents and representatives of such "Drain Layer".

"Engineer" shall mean the Water Pollution Control Authority's engineer, or his duly authorized representative.

"Gray water" means any Domestic Sewage which does not include human excretions.

"Groundwater" means subsurface water occupying the saturation zone from which wells and springs are fed.

"Industrial wastewater" all wastewater from industrial processes, trade or business and is distinct from "Domestic Sewage". "Industrial wastewater" discharge to the Town of Chester's "Public Sewer" is prohibited.

"Leaching Trench" means a level excavation not exceeding three feet in width, with vertical sides and a flat bottom partially filled with stone or gravel and equipped with a single distribution line running the entire length of the trench.

"Person" used herein, shall include any individual "Person", party or group of "Persons associated together in any way, or any corporation or organization.

“pH” shall mean the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.

“Plans” means any document which may include layout, topography, construction specifications, site testing information, and seepage analysis which have been prepared by a registered “Professional Engineer”.

“Professional Engineer” shall mean an Engineer licensed by the State of Connecticut to practice engineering for the public.

“Property Owner” as used herein shall include both the owner of fee in any real estate or those having any interest therein, and their agents or representatives as the interest, duties, powers, or liabilities of each may be.

“Public Sewer” shall mean a sewer in which all owners of abutting properties have equal rights, and is controlled by the Water Pollution Control Authority.

“PVC” – Polyvinyl Chloride

“Residential Building” means any house, apartment, trailer or mobile home, or other structure occupied by individuals permanently or temporarily as a dwelling place.

“Sanitarian” shall mean the duly appointed representative of the “Town” of Chester Health Official and “Water Pollution Control Authority”, authorized to act for the official and “Water Pollution Control Authority as defined in these regulations and the State Public Health Code.

“Sanitary Sewage” shall mean the common wastewater and water-carried wastes from residential dwellings and from toilet and lavatory fixtures, kitchens, laundries and similar facilities of commercial and industrial buildings.

“Sanitarian” shall mean the duly appointed representative of the Town of Chester Health Official and Water Pollution Control Authority, authorized to act for the official and authority as defined in these regulations and the State Public Health Code.

“Sanitary Sewer” shall mean a sewer intended to convey only “Sanitary Sewage”. “Sanitary Sewers shall not be used to convey storm water.

“Septic Tank” means a watertight receptacle designed and constructed so as to permit settling of solids, the digestion of organic matter, and the discharge of settled sewage.

"Sewage" shall mean wastewater, water-carried wastes, or a combination of them, being the spent water from a residential, commercial or industrial building or establishment.

"Sewage Works" shall mean all facilities for collecting, pumping, treating, and disposing of sewage.

"Sewer" shall include the main pipe or conduit, manholes, and other structures and equipment appurtenant thereto, provided to carry sewage, industrial wastes, storm water, cooling water or similar wastes, subject, in each particular case, to the purposes and limitations imposed upon the particular pipe or conduit or sewer.

"Sewer Service Area" refers to the area adopted by the Chester "WATER POLLUTION CONTROL AUTHORITY" on May 17, 2005 and shown on the map entitled Chester Wastewater Planning Study May 2005 Figure 1, as may be amended from time to time, which is filed in the "Town" Hall.

"Shall" is mandatory; "May" is permissive.

"Stormwater" shall include the runoff or discharge of rain and melted snow or other clean water from roofs, surfaces of public or private lands or elsewhere.

"Subsurface Drain" means any perforated or open joint pipe or other constructed subsurface conveyance to which ground water discharges or in which "Groundwater" is collected and transported during any season of any year.

"Suspended Solids" shall mean solids that either float on the surface of, or are in suspension in water, sewage, or other liquids, and which are removable by laboratory filtering.

"Superintendent" shall be Chairman of the "WATER POLLUTION CONTROL AUTHORITY" or other authorized representative.

"Three Quarter-Inch Stone" or "One-Inch Screened Gravel" means stone which has been washed and graded so that the stone will pass through a screen with two-inch openings and be retained on a screen with three-quarter inch openings.

"Town" refers to the Town of Chester unless specified otherwise.

"User" shall include both the owner of fee in any real estate and also tenants, lessees, or others in control or possession and use of the property in question, or those having any interest therein, and their agents or representatives as the interest, duties, powers, or liabilities of each may be.

"Watercourse" shall mean a channel in which a flow of water occurs, either continuously or intermittently.

"Water Pollution Control Authority" shall mean the duly elected (appointed) committee of the "Town" of Chester charged with the responsibility, among other, things, of ensuring compliance with this regulation.

SECTION 2 - SEWER CONNECTIONS

Article 2-1 Permits

No person shall uncover, make any connections with or opening into, discharge any waste into, alter or disturb any "Public Sewer" or appurtenances thereof without first obtaining a written permit from the "Water Pollution Control Authority". The "Property Owner" shall be a necessary signatory on the application for a permit. All work shall be performed by a "Licensed Drain Layer" approved by the "Water Pollution Control Authority."

- A. Permits to connect to the "Public Sewer" may be granted only by the "Water Pollution Control Authority". Permits to connect to the "Public Sewer" may only be issued when, in the opinion of the "Water Pollution Control Authority", the following conditions are met:
- 1) Permits will be limited to a specific volume and type of waste.
 - 2) The sewage shall be "Domestic Sewage", and shall include no substances harmful to the public disposal system.
 - 3) Water conservation measures will be implemented prior to connection to the "Public Sewer".
 - 4) No single discharge shall exceed 500 gpd of wastewater without a special exception permit from the "Water Pollution Control Authority".
 - 5) For good cause shown the "Water Pollution Control Authority" may waive or modify the foregoing requirements.

Article 2-2 Industrial Wastes

No industrial wastes except for the sanitary wastes generated by employees will be allowed into the sewer system.

Article 2-3 Building Sewers

- A. Existing “Building Sewer”’s may be used only when they have been determined by examination by the “Superintendent” and tested at the owner's expense to meet all the requirements of this ordinance.
- B. All costs and expenses incident to the installation and connection of the “Building Sewer” shall be borne by the owner, including indemnifying the “Town” and “Water Pollution Control Authority” for any loss or damage that may directly or indirectly be occasioned by the installation of the “Building Sewer”’s.
- C. A separate and independent “Building Sewer” shall be provided for every building; except where one building stands at the rear of another on an interior lot and no “Building Sewer” is available or can be constructed to the rear building through an adjoining alley, court, yard or driveway, the “Building Sewer” from the front building may be extended to the rear building, and the whole considered as one “Building Sewer”. In such case, the “Water Pollution Control Authority” may, at its option, require the connecting sewer be constructed to “Water Pollution Control Authority” standards for a “Sanitary Sewer” and may require easement and maintenance rights in its favor. In such case, at the discretion of the “Water Pollution Control Authority”, the “Water Pollution Control Authority” may take over and maintain the completed “Building Sewer.”
- D. The size, slope, alignment, materials of construction of a “Building Sewer”, and the methods to be used in excavating, placing of pipe, jointing, testing, and backfilling the trench, shall all conform to the requirements of building and plumbing codes in effect in the State of Connecticut, “Town” of Chester and the Chester “Water Pollution Control Authority”, and to applicable rules and regulations of the “Water Pollution Control Authority”.

Article 2-4 Building Sewer Construction

The following, construction practices and materials shall be used to install “Building Sewer” connections:

- A. Before starting any work, in or upon any building where a sanitary sewer has been constructed, a permit must be obtained from the “Water Pollution Control Authority”. Work must be done by a “Drain Layer” licensed in the State of Connecticut.

- B. The “Building Sewer” connection must be minimum 6 inches “PVC” plastic or other approved type of sewer pipe. Plastic pipe shall meet ASTM Specification D-30-34 and be carried to within 5 feet of cellar wall; from this point 5 feet of 4-inch minimum extra heavy cast iron soil pipe or ductile iron pipe is to be [shall be?] used through cellar wall. The sewer pipe must have a true grade no less than 1/4 inch to 1 foot. All joints shall be made with a suitable rubber gasket or approved sealing material. Plastic pipe shall be bedded in six inches of “Three Quarter-Inch Stone”. The “Three Quarter-Inch Stone” shall be backfilled to a point 6 inches above the top of the pipe. The remaining trench may be backfilled with suitable excavated material. Filter fabric and utility warning tape shall be placed above the initial backfill layer.
- C. Connection of the “Building Sewer” to the public sewer line should be made to existing wyes/tees wherever possible. Where a tee or wye does not exist, the main sewer line shall be cut and a wye/tee inserted with approved leak proof connections. The “Building Sewer” towye/ tee connection shall be made water and gas tight and be proved by a low pressure air or hydrostatic test. The maximum allowable infiltration or exfiltration shall not exceed 100 gallons/inch mile/24 hours.
- D. All interior cleanouts must be carried 6 inches above the cellar floor to prevent surface water from entering the sewer. All pipes and fittings shall be of extra heavy duty pipe, minimum of 4 inches in diameter. All joints shall have rubber gasketed seals. No surface water shall be allowed to enter the sewer. All interior work in connection with main house drain must be done by a licensed plumber and in accordance with local, state and building and plumbing codes.
- E. Exterior cleanouts shall be extended to the surface using PVC rubber gasketed pipe or ductile iron pipe pursuant to the “Town”’s standard details.
- F. “Building Sewers” serving multi-unit residential, industrial or commercial structures may be required to connect to a standard or special manhole as ordered by the WPCA.
- G. Connecticut Department of Public Health (CTDPH) regulations shall be complied with when installing sewer pipes within 75 feet of a well.

Article 2-5 Pumps

Whenever possible, the “Building Sewer” shall be a gravity sewer serving the first floor of the building. When not, then sewage shall be transferred by a private pump or other means approved by “Water Pollution Control Authority”, equipped with a minimum of

two check valves, one of which shall be integral to the pump. At multi-family residential or commercial properties, a duplex pumping system shall be required.

Article 2-6 Surface or “Groundwater” Drains

No “Person” shall make connections of roof downspouts, exterior foundation drains, areaway drains, storm drains or other sources of surface runoff or “Groundwater” to a “Building Sewer” or “Building Drain”, which in turn is connected directly or indirectly to a “Public Sewer”.

Article 2-7 Inspection

The applicant for the “Building Sewer” permit shall notify the “Superintendent” when the “Building Sewer” is ready for inspection and connection to the “Public Sewer”. The connection shall be made under the supervision of the “Superintendent” or his representative.

Article 2-8 Protection

All excavations for “Building Sewer” installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the “Town” and the “Water Pollution Control Authority”. Excavations greater than 4 feet deep may require a trench safety structure or sheeting. OSHA regulations shall be adhered to for trench safety.

Article 2-9 Testing

All 6-inch diameter (15.24 cm) “Building Sewer”s shall be tested and demonstrated to have a maximum infiltration amount not to exceed 100 gallons per inch mile of pipe per 24 hours.

**TOWN OF CHESTER
WATER POLLUTION CONTROL AUTHORITY**

Special over 500 gallons per day

Regular

Permit Application Form
Permit fee ~~\$175.00~~ (waived through 12.31.09)

- 1) Building or source location _____
- 2) Is this a new or existing building _____
- 3) Building owner _____
Address _____
Phone No. _____
- 4) Occupants Names _____
Address _____
Phone No. _____
- 5) Name of Business _____
- 6) Nature of Business (describe) _____
_____ No. Employees _____
No. Patrons _____ Hours of Operation _____ Days _____
No. water closets, lavatories, showers _____
Is this a new or existing business? _____
- 7) Wastewater volume (gallons per day) _____
How was volume determined? _____
Describe any water conservation measures taken in the system _____

- 8) Attach water use records for past 1 year.

- 9) Size of building's property S.F. _____. Attach a map showing the lot and building on the property (map should show slope of ground, wells, soil types and location of septic systems tests and all buildings.

- 10) Sewage character is:
- a. Domestic _____
 - b. Commercial _____
 - c. Industrial _____
 - d. Describe the nature of the operations which will generate the commercial or industrial wastes _____

- 11) What if any pretreatment is planned? _____
Attach "Engineer"'s drawings, reports, etc.
- 12) Are any cooling waters included in the proposed discharges? _____
- 13) Are any sump pumps, ground water, roof, surface or ground waters intended to be connected to the system? _____
- 14) Will you agree to allow Water Pollution Control Authority or Town personnel to periodically inspect your system and connections for compliance with their regulations and conditions, and to monitor your water use? _____

SIGNATURES

Applicant: _____

Building/Property Owner(s): _____

Date: _____