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# GRINDER PUMP MANAGEMENT PLAN



Dated: March 13, 2009  
No Revisions

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# GRINDER PUMP MANAGEMENT PLAN

It is intended that this document shall represent the Management Plan of Northampton, Bucks County, Municipal Authority (“Authority”) regarding low-pressure sanitary sewer facility including pipes, appurtenances and controls (“Grinder Pump”) connected into the public sanitary sewer system of the Authority.

## I. GENERAL CONDITIONS

- a.** The Authority has determined that Grinder Pumps shall have application, as a limited alternative to the standard, conventional gravity system, in the following events:
  - i. Topography considerations create difficulties and significant additional expenditures.
  - ii. Groundwater conditions present difficulties in construction and maintenance.
  - iii. Significant rock formation present impractical application of standard construction methods.
- b.** The Authority shall permit the use of each Grinder Pump on an individual basis, based upon the presence and significance of the factors set forth in Section “a” above.
- c.** The permission to allow the use of a Grinder Pump shall be provided, in writing, issued by the Executive Director of the Authority or his/her designated agent.
- d.** Each applicant requesting implementation of a Grinder Pump for a property shall provide such information as the Authority may request, including the following:
  - i. Basis for Grinder Pump preference based upon factors set forth in Section “a” above.
  - ii. Plans and profiles of location and details of proposed Grinder Pump.
  - iii. Shop drawings of all proposed installations.
  - iv. The current Approved Pump (as hereinafter defined) is Crane (Barnes) OGV, which may be changed, as the Authority shall from time to time reasonably determine.
- e.** The Authority shall determine the manufacturer and model of each Grinder Pump approved pursuant to this Management Plan (“Approved Pump”). Any alternative Grinder Pump requested by any applicant shall require reviews of hydraulic requirements and such other information to support the basis for the benefits to the applicant and proposed users for not installing an Approved Pump.
- f.** Each developer, as referenced in the Authority’s Rates, Rules, and Regulations, shall pay to the Authority the sum of Two Hundred Fifty Dollars (\$250.00) for each Grinder Pump installation, prior to Authority permitting approval. In the event the Grinder Pump, as permitted, is not a current Approved Pump, the developer shall provide a spare Grinder Pump for each fifteen (15) Grinder Pumps permitted, or fraction thereof.

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- g.** All Grinder Pump installations shall be inspected and approved by the Authority or its designee prior to backfilling. Verification of permanently attached phenolic “Maintenance Label” shall occur as a condition of approval. Such label shall state:

*“All maintenance costs for grinder pump systems are the Homeowner’s responsibility. A temporary replacement, Crane (Barnes) OGV Grinder Pump and/or ESPS pressure switch may be rented or purchased from the Northampton, Bucks County, Municipal Authority. Contact information: 215-357-8515.”*

The phenolic label shall be provided by the Northampton, Bucks County, Municipal Authority at the time of application and payment of fees.

All Grinder Pump installations shall be in full compliance with all Authority Rates, Rules, and Regulations and Township, State, and Federal requirements.

- h.** All preliminary and final development plans approved under the Pennsylvania Municipality Planning Code, where applicable, shall contain the following note:

*“A copy of the Northampton, Bucks County, Municipal Authority’s Individual Grinder Pump Management Plan shall be given to the Homeowner of any affected property at the time of settlement on that property.”*

The applicable developer shall be required to comply with the terms of such note.

- i.** The owner of each Grinder Pump shall provide a copy of this Management Plan, as then current at settlement, to the property owner.

## **II. OWNERSHIP AND MAINTENANCE**

- a.** Each Grinder Pump installed, outside any public right-of-way line, shall be owned and maintained by the property owner.
- b.** Each such property owner shall maintain a service contract with a qualified contractor experienced in the maintenance and replacement of all elements of the Grinder Pump.
- c.** All Grinder Pump warranties shall be enforced by the property owner against the applicable manufacturer or appropriate agent.

## **III. RENTAL/SERVICE POLICY**

- a.** In accordance with the requirements of the Pennsylvania Department of Environmental Protection, the Authority shall maintain one or more spare individual Grinder Pumps for use on an as-needed basis by property owners served by the Authority’s sewer system.
- b.** In the event that the property owner requires a replacement of an approved Grinder Pump, the Authority shall attempt to provide, spare grinder pumps, from its repository, on a temporary basis consistent with the terms of this Management Plan.

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- c.** The following policy shall apply to the rental of a Grinder Pump from the Authority:
- i.** The property owner may designate a contractor or plumber (“Agent”) as the authorized agent.
  - ii.** The Agent must be on an approved contractor/plumber list of Northampton Township.
  - iii.** The property owner or Agent shall complete a “Grinder Pump Rental Form,” available at the Authority’s office during normal business hours Monday through Friday, from 8:30 a.m. to 4:30 p.m. Rental not in normal business hours shall be subject to a One Hundred Dollar (\$100.00) surcharge premium. Arrangements for rental not in normal business hours can be accommodated by contacting the Authority’s Emergency Service On-Call Representative at 215-357-8515 (7days per week, 365 days per year).
  - iv.** The rental Grinder Pump must be returned in clean, good working condition. If the Grinder Pump requires cleaning or repairs, the property owner shall be so notified by the Authority and the cost of the services to clean or repair shall be billed to the property owner. A copy of the service statement thereafter will be returned to the property owner.
  - vii.** The purchase of major spare parts for approved standard Grinder Pumps can be obtained by an Authority customer in accordance with the Fee Schedule in force at the time of purchase. Two (2) major items will be made available for purchase and shall be stocked by the Authority for emergency repairs.
    - Crane (Barnes) OGV Pump
    - Crane (Barnes) ESPS Pressure Switch

The rental or purchase cost(s) of the above mentioned items will be billed on the property owner(s)’s sewer account.

- d.** It is the policy of the Authority that any warranty issues associated with the Grinder Pump shall be resolved directly between or among the property owner, developer (if applicable), manufacturer of the Grinder Pump, or such other involved parties, to the exclusion of the Authority, its employees and agents.

#### **IV. CONSUMER EDUCATION**

##### **a. General Information**

A Grinder Pump is part of a larger low-pressure wastewater disposal sewer system. The key element in this system is the grinder pump station. The station collects all wastewater from your property. The solids in the sewage are then ground into a small size by the Grinder Pump within the station, suitable for pumping in the system. The grinder pump generates sufficient pressure to pump the slurry created from the property to the Authority’s sanitary sewer system.

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With proper care and by following a few simple guidelines, the station will give many years of dependable service. The station is designed to handle routine, domestic and light industrial sewage. Solid waste materials should be thrown in the trash. A preventive maintenance schedule should be developed to further increase the longevity of the station.

## **b. Recommended Preventative Maintenance**

### **Annually:**

- Property owner should visually inspect the power cables, control harnesses and rope. Make sure they are properly hung on the adapter hooks and free from defects.
- Property owner should check operation of the visual alarm lamp and audible siren in the alarm box.
- Property owner should make sure alarm box is free from any moisture.
- After inspection, the property owner should make certain that the alarm box cover and system rock cover are secure and locked.

### **If Alarm Sounds:**

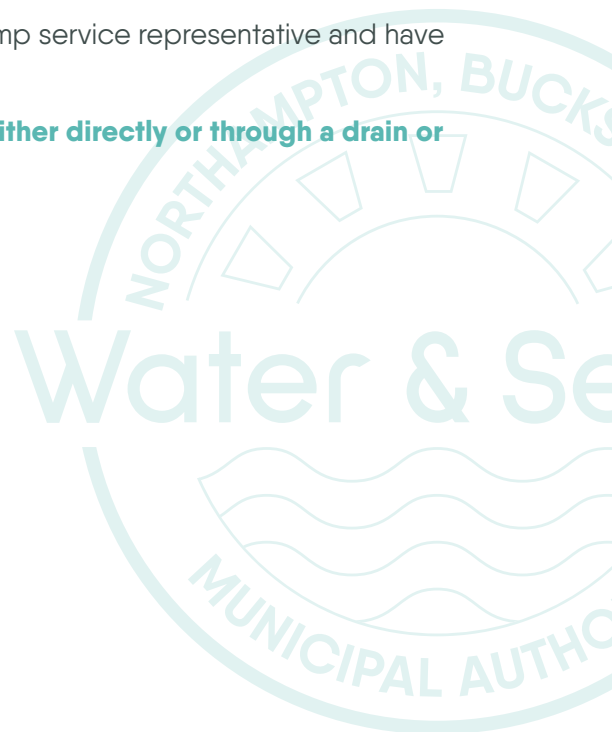
- The responsible party should contact the Grinder Pump service representative and have them inspect the system.

### **Various items SHOULD NOT BE introduced into any sewer either directly or through a drain or waste disposal, including but not limited to:**

- Glass, metal, or plastic
- Diapers, sanitary napkins, or tampons
- Socks, rags, or cloths

### **In addition, you must NEVER introduce into any sewer:**

- Explosives or flammable material
- Lubricating oils or grease
- Strong chemicals or gasoline



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### c. Power Failure

The Grinder Pump station cannot dispose of wastewater or provide an alarm signal without electrical power. If an electrical outage occurs, keep water usage to a minimum. The station has reserve capacity available to help avoid alarm or high-level occurrences during power outages.

## V. CONTACT INFORMATION

### a. Manufacturer:

- Crane Pumps & Systems / Barnes

420 Third Street

Piqua, Ohio 45356

Phone: 937-778-8947

FAX: 937-773-7157

Email: [www.cranepumps.com](http://www.cranepumps.com)

### b. Local Agent: (Crane Pumps & Systems / Barnes)

- C. W. Sales Corporation

199 S. Forrest Avenue

Norristown, PA 19401

Phone: 610-277-6444

FAX: 610-277-3797

Email: [www.cwsalescorp.com](http://www.cwsalescorp.com)



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