

Renewing Old Mains with Potable Distribution Water Main High-Pressure Jetting Method/Process

For

PNWS

Quarterly Webinar

October 28th, 2021

Presented by: Chris Wilkinson



Neutral Output Discharge Elimination Systems

...Leading by Example in Water Conservation

Tuberculation & Scaling In Potable Distribution Water Mains



...Leading by Example in Water Conservation

Cement-Mortar Lined Iron Pipe



...Leading by Example in Water Conservation



Primary Reasons for Renewal

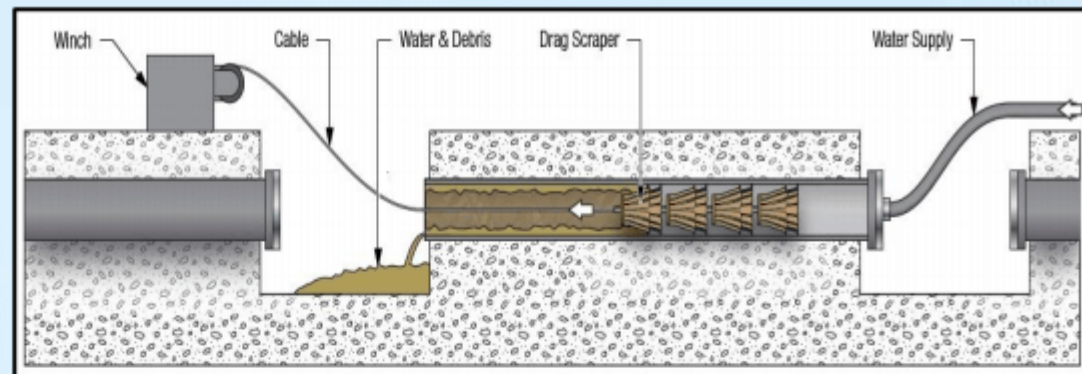
- 1. Water Quality Improvement**
- 2. Hydraulic Improvement – Fire Flows**
- 3. Structural Improvement**

Rehabilitation or Open Trench

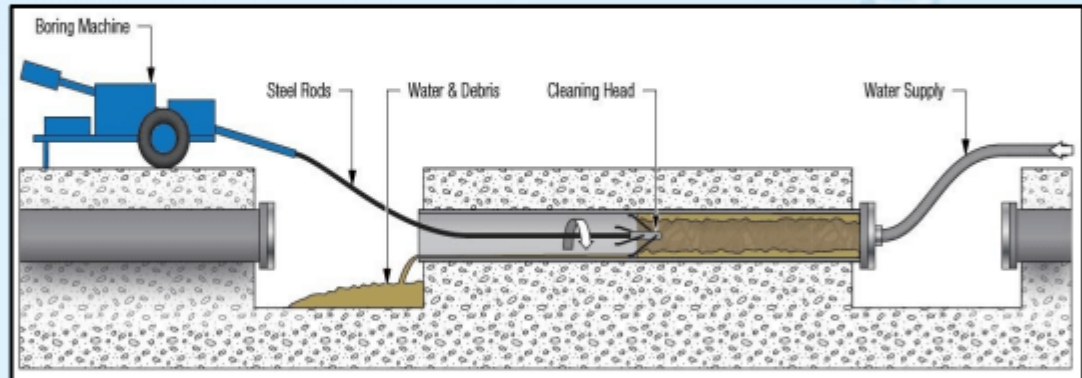
- 1. OPEN TRENCH (REPLACEMENT)**
- 2. Pigging - PIGS**
- 3. Chemical**
- 4. Flushing – Uni, NO-DES**
- 5. Ice Pigging**
- 6. High Pressure Jetting**
- 7. Air Scouring**
- 8. Boring**

Water Main Pig, Bore or Jetting?

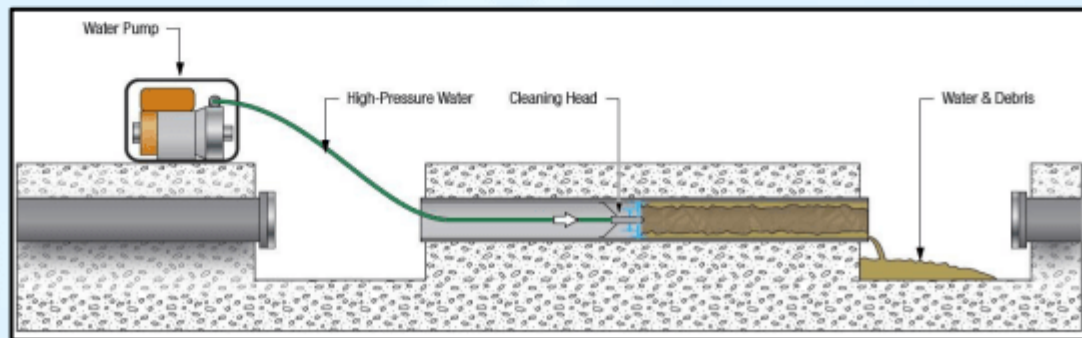
Drag Scrape



Power Bore



Water Jet





CO\$T\$ to Remove Tuberculation

Approximates

1. **Open Trench (Replacement) Up to \$600 per Ft**
2. **Pigging Up to \$300 per Ft**
3. **Boring Up to \$300 per Ft**
4. **Ice Pigging (doesn't remove Tuberculation)**
5. **Chemical? *(Can Plug at Hyd Bury)**
6. **NO-DES HP Jetting \$40 to \$60 per Ft**

Potable Distribution Water Main Jetting

The BEST Solution For Removing Tuberculation



*Can Only Be Used In
Conjunction With Your
NO-DES Flushing Truck*

Camera / Videoing

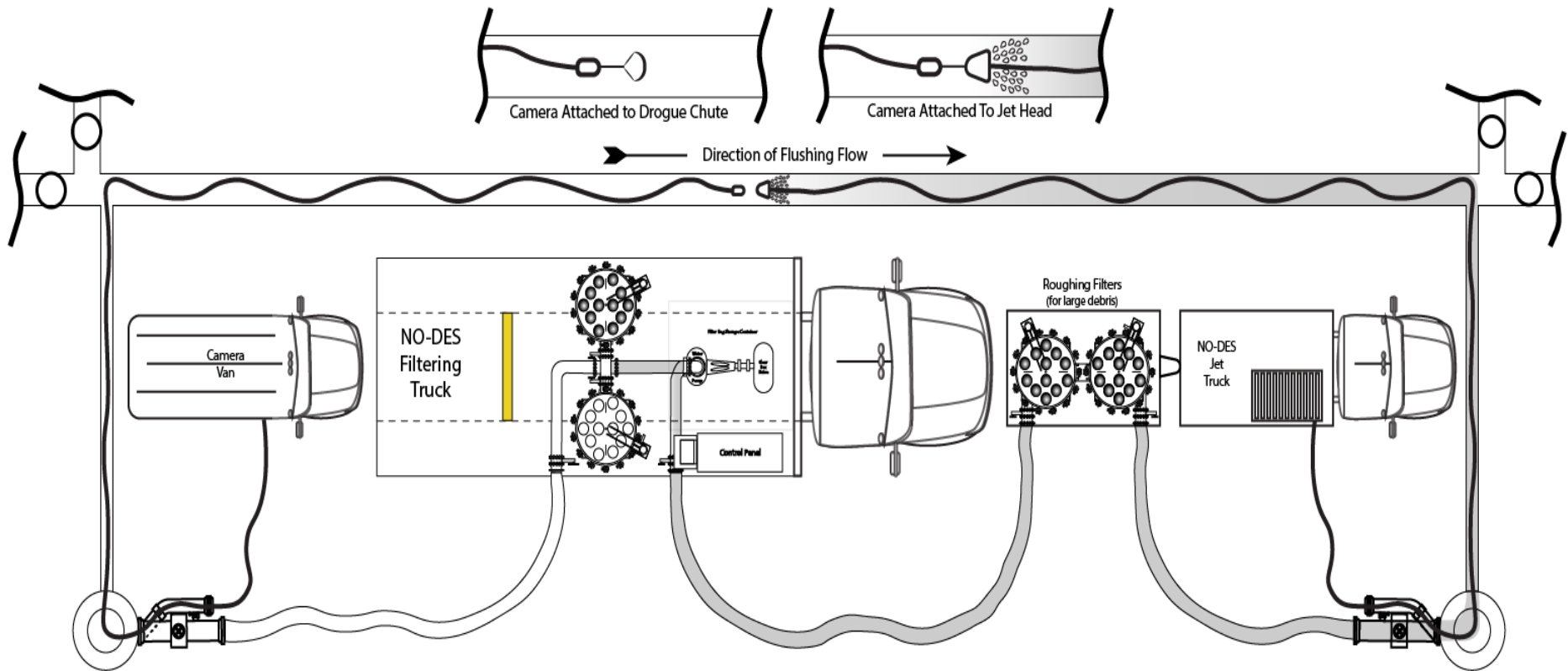
Acoustical Leak Detection

Locating

**Municipal Potable Water
Main Distribution System
“One Stop Shop”**

NO-DES HP Water Main Jetting

NO-DES Pressurized Potable Water Main Flushing Flow and High Pressure Jetting Method and Process



...Leading by Example in Water Conservation

NO-DES Truck Unit



Direct Sales and Support

Contract Operations

...Leading by Example in Water Conservation

Jetting Can Only Be Used With NO-DES Water Main Flushing Technology



Jetting Can Only Be Used With NO-DES Water Main Flushing Technology



Water Distribution System Jetting?



...Leading by Example in Water Conservation

First Stage Basket Filter



...Leading by Example in Water Conservation

Typical Loaded 1 Micron Absolute Filter Bag



...Leading by Example in Water Conservation



This Concludes this Presentation

Questions?

