

## Program Advantages

- Inspect and collect data on your underground infrastructure in a safer, faster, more cost-effective manner
- Save money while reducing SSOs and infiltration and inflow (I&I)
- Improve drinking water quality, system performance and fire protection capability
- Increase efficiency with our find and fix approach
- Protect precious resources without staff reductions, budget or capital asset cuts
- Deliver solutions to structural and O & M needs without additional funding

*"We are very pleased with InfraMetrix's approach to asset management and their focus on providing solutions for their clients."*

*We have worked together to provide the level of service our citizens desire while improving our capital assets through a comprehensive Asset Management Program."*

Chuck McCullom  
Assistant Superintendent  
Town of Marblehead (MA) Water and  
Sewer Commission

## INFRAMETRIX: KEEPING THE FUTURE IN VIEW

In today's environment of budget gaps, service and staff cuts, utilities are seeking strategies to help them operate more efficiently while still meeting their primary service level goals. Buried infrastructure assets, often viewed as the most complex to evaluate and repair, are a major source of customer complaints and have the potential to require significant investment. But it doesn't have to be that way.

InfraMetrix<sup>SM</sup> provides data collection services and tools to make the best use of time and money for developing comprehensive inventories and operational, structural and hydraulic condition assessment of underground infrastructure. InfraMetrix delivers innovative and affordable infrastructure diagnostic services to help clients prioritize long-term water, wastewater and storm water maintenance and capital investments for improved performance.

### Infrastructure Asset Management Program

Our five-step, systematic Infrastructure Asset Management (IAM) Program, deployed in communities around the United States, helps clients make informed decisions leading to improved infrastructure performance:

- 1. Mapping** of the sewer and water assets
- 2. Inventory** of assets and their physical condition through data research and inspection
- 3. Condition Assessment** to identify immediate maintenance and structural needs and the existing condition of the sewer and water assets
- 4. Prioritization** of immediate needs and future preventative maintenance and capital activities
- 5. Planning and Scheduling** future inspection, maintenance and capital activities



*Providing innovative and affordable infrastructure diagnostic services to help clients prioritize long-term water, wastewater and storm water maintenance and capital investments for improved performance.*

## Representative Projects

### Hillsborough County, FL

GPS, mapping, zoom camera inspection and condition assessment of 1,300 miles of pipelines and 30,000 manholes

### Jersey City, NJ (JCMUA)

Preparation of unidirectional flushing program to address security vulnerability issues

### Sanitation District No 1 of Northern KY

Multi-year condition assessment addressing critical pipelines and SSO consent orders

### Auburn, NY

Valve and hydrant inspections, computerized unidirectional flushing program, hydraulic modeling, on-site training of city personnel

### Marblehead, MA

Multi-year condition assessment resulting in 1.1 mgd I/I reduction to WWTP and 85% reduction in insurance claims due to SSOs

### Other clients:

- Boston, MA (BWSC)
- Dallas, TX
- Folsom County, CA
- Live Oak, FL
- New Castle, DE
- PRASA, Puerto Rico
- San Antonio River Authority SARA
- Toho Water Authority, FL
- Virginia Beach, VA

### Firms we have worked with:

- Brown and Caldwell
- Cardno TBE
- Carollo Engineers
- CDM
- Fay Spoffard & Thorndike
- Haley & Ward
- Jason Consulting
- Malcolm Pirnie
- Metcalf & Eddy AECOM
- Stantec

### Institutional

- Alabama Department of Transportation
- State University of New York, Farmingdale
- Washington Naval Base, DC

## Our Infrastructure Asset Management Services\*

### Mapping

- **GPS Locating** - Survey grade and sub-meter location of assets
- **GIS Mapping** - Manage assets with inspection data and operating conditions. ESRI Business Partner.

### Inventory

- **Manhole Inspections** - Design ready using a pan/tilt zoom camera and prioritizing based on physical, safety and operating condition data using NASSCO MACP coding standards.
- **Pipe Inspections** - Identify maintenance, I/I and capital needs using zoom and in-line inspection technologies
- **Fire Hydrant and Water Valve Inspections** - Identify operational, hydraulic, mechanical and water quality deficiencies through visual and physical deficiencies

### Condition Assessments

- **I&I and SSES** - Identify I&I sources through flow monitoring, zoom and cctv, smoke testing and dye testing
- **Water Main Valve Assessment** - Locating, exercising, and prioritizing maintenance and repairs
- **Assessment of Existing Sewer Inspection Videos** - PACP certified viewers rate and rank defects observed in videos
- **Broadband Electromagnetic Technology** - Non-invasive, frequency independent technology that measures the thickness of ferrous pipe without disrupting service

### Prioritization

- **Identify Immediate Needs** - Classify assets by extent of defects

### Planning and Scheduling

- **Maintenance & Capital Planning** - Consider the consequence of failure, asset condition, financial and staffing resources. Schedule annual inspections, maintenance and capital programs

### Asset Management

- **Technical Advice & Operational Services** - Advise on technologies and solutions
- **Pipeline Cleaning** - Address immediate needs to avoid backups and overflows
- **Unidirectional Water Main Flushing** - Design and execution of strategic manipulation of hydrants and valves for efficient pipe cleanings

\* Services based on Aqua Data knowhow and technologies



**InfraMetrix**<sup>SM</sup>  
An Aqua Data Licensee

CORPORATE HEADQUARTERS:  
InfraMetrix, LLC  
9208 Florida Palm Drive  
Tampa, FL 33619  
T (813) 740-2510  
F (813) 740-2536

Toll Free: 1-877-745-4255  
email: [info@inframatrix.com](mailto:info@inframatrix.com)  
[www.inframatrix.com](http://www.inframatrix.com)  
blog: [inframatrix.wordpress.com](http://inframatrix.wordpress.com)  
[www.twitter.com/inframatrix](http://www.twitter.com/inframatrix)

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