



May 19, 2022

Jerry L. Moats
Water & Sewer Superintendent
City of Barnesville, GA
109 Forsyth Street
Barnesville, GA
Phone: 678.588.0436
Email: jerry.moats@cityofbarnesville.com

delivered via email

RE: City of Barnesville, GA Fire Hydrant Condition Assessment Program

Mr. Moats:

Thank you for the opportunity to submit a proposal for our field services for Fire Hydrant Condition Assessment Program.

Overview

Wachs Water Services (WWS) will provide the City of Barnesville, GA multi hydrant flow test fire hydrant condition assessment services, light repairs and GPS (for productivity tracking) to perform approximately forty-three (43) days of condition assessment services on a minimum 500 hydrants. Should this total number of hydrants change, per unit contract pricing will be used. The contract is valid for normal traffic. Traffic Control pricing is provided if a blocking truck is required and not provided by the City of Barnesville GA (unlikely). Also note, the hourly rate is provided for repair work requested by the City of Barnesville, GA above and beyond the included light repairs. Deliverables will be standard information collected with samples provided at your request. Materials for repairs, if not provided by the City of Barnesville are cost + 15%.

Valve Assessment Scope

Appendix A – Fire Hydrant Scope of Services

Pricing

See Chart Below

Scope	# of Units	Price per Unit	Total
Multi Hydrant Flow Test Fire Hydrant Condition Assessment	500	140.00	\$70,000.00
Fire Hydrant Lead Valve Assessment	500	65.00	\$32,500.00
Mobilization	1.0	200.00	\$2,000.00
Hourly Rate	1.0	250.00	
Traffic Control/per day (if needed)	1.0	\$1,500.00	

Respectfully Submitted,

Brad Gresham

Brad Gresham
Business Development Manager - South Region
brad.gresham@xylem.com
678-340-6850

APPENDIX A: FIRE HYDRANT CONDITION ASSESSMENT SCOPE OF SERVICES

GENERAL

1. WACHS WATER SERVICES will provide minor traffic control measures (cones, light board) to promote a safe working environment during the project for WACHS WATER SERVICES crews and the general public. Where local regulations require a separate traffic control plan, permit, or where site conditions necessitate the need for additional traffic control, either requested by WACHS WATER SERVICES or Customer, Customer will be responsible for procuring and executing additional traffic control measures as necessary. This proposal does not include charges for local police or 3rd party traffic detail.

2. Any local, state, or federal permits required for the performance of the work will be paid for and secured by Customer with support from WACHS WATER SERVICES as necessary.

FIRE HYDRANT INSPECTION, EXERCISING, AND TESTING PROCEDURES

1. LOCATING HYDRANT

Customer will provide WACHS WATER SERVICES with a minimum of two copies of the system's most current water distribution maps for the project area. WACHS WATER SERVICES will attempt to locate all hydrants using the following guidelines:

WACHS WATER SERVICES will search for all hydrants visually using GIS and mapping. If the hydrant cannot be located after searching for the hydrant for 10 minutes, the hydrant will be noted and recorded as "cannot locate."

2. IDENTIFYING HYDRANTS

Each hydrant will be identified by its corresponding identification number (ID). In cases where asset IDs are not available, WACHS WATER SERVICES will create a temporary asset ID in such a format as agreed to with Customer prior to commencing work.

3. COLLECTING ATTRIBUTES

WACHS WATER SERVICES will collect fourteen (14) attributes about each hydrant. The information to be collected will be discussed and defined by Customer. The typical attributes include:

- Hydrant ID
- Address
- Street
- Cannot Locate
- Manufacturer
- Fabrication Date
- Paint Color
- Surface Cover
- Latitude and Longitude
- GPS Survey Date
- Minutes Flushed
- Static Pressure
- Residual Pressure
- Flow

4. OPERATIONAL ASSESSMENT

Single Hydrant Flow Test performed in concert with hydrant auxiliary valve

- Visually inspect – check paint/grade
- Check break-away for damage
- Check for the presence of water /ice in the barrel. (plumb bob)
- Attach hose diffuser
- Open hydrant and flush foreign material from lead main and hydrant
- Close hydrant – check for proper weep.
- Replace outlet nozzle cap – leave it loose enough to allow air to escape.
- Slowly open hydrant only a few turns, allowing air to vent from the outlet nozzle cap.
- Tighten outlet nozzle cap
- Open hydrant fully – (cycle several times if hydrant is stiff to remove buildup on the shaft).
- With the hydrant fully open, check flanges-nozzles-packing at seals and around operating stem.
- Partially close the hydrant so the drains open and the water flows through under pressure for about 10 seconds, flushing the drain holes.
- Close the hydrant completely. Back off the operating nut enough to take pressure of the thrust bearing or packing.
- Remove all outlet-nozzle caps, clean the threads, check the condition of the gaskets and lubricate threads.
- Check outlet-nozzle chains and cables – ensure they are free.
- Replace caps- tighten and then back off a bit to prevent excessive tightening – but keep them tight enough not to be removed by hand.
- Check the lubrication of operating nut threads. Lubricate if needed.
- Locate and exercise the auxiliary valve (rating the valve's box condition, leak condition, and operation condition) – leave it in the open position.

GIS SERVICES

1. DEFINITIONS

Customer Data: Geospatial data file(s) containing water asset features and information

Geospatial Data: Geodatabase, shapefile, or drawing (AutoCAD file)

Cloud GIS: Esri ArcGIS Online mapping platform, a SaaS for serving geospatial data (aka Data as a Service (DaaS))

2. TASKS

a. GPS mapping

- i. Data dictionary to be provided by the City of Barnesville, GA
- ii. Daily post-processing of GPS data to improve the accuracy of the shots
- iii. Daily validation of field collected data
- iv. Appending validated data to the master database
- v. Generating reports, summaries, and work orders
- vi. Managing data history

b. Thematic map creation (i.e. to help discover patterns – clusters of aging assets, density of poor or inoperable assets, clusters of valves in the wrong open/close position, etc.)

c. Generate professional thematic maps and mapbooks using advanced geoprocessing tools such as density tools to create heat maps

3. DELIVERABLES

A. User manual catered to Customer

B. Validated field collected data (per Customer request) in Customer accepted format (Access file, Excel spreadsheet, shapefile, geodatabase, etc.) Geodatabase requested by the City of Barnesville, GA.

C. Annual report summarizing the project including all data, recommendations, lessons learned, and an overall evaluation of the project.

D. Deliverable will verify the existing flow/pressure data for each known hydrant tested or will establish flow/pressure for new/additional hydrants. Data/information can then be migrated into existing database and GIS locations of the hydrants by the City of Barnesville, GA.

CONDITIONS OF ENGAGEMENT FOR THE PROVISION OF SERVICES

(North America)

The Proposal is issued upon and is subject to these Conditions of Engagement. If the Proposal is accepted by the Client, these Conditions of Engagement and the Proposal will be deemed to form part of the Contract between the Client and Pure.

1. DEFINITIONS

In these Conditions of Engagement the following definitions apply:

- “Client” means any person or persons, firm or company engaging Pure to provide the Services.
- “Contract” means the agreement awarded to Pure as a result of the Proposal.
- “Pure” means Pure Technologies Ltd., Pure Technologies U.S. Inc., PureHM Inc., PureHM U.S. Inc. or any of their affiliates, as the case may be, which submitted the Proposal and is a party to the Contract.
- “Proposal” means Pure's offer to carry out the Services and includes all related correspondence plus agreed written variations or amendments thereto.
- “Services” mean those services of whatever nature to be supplied by Pure under the Contract.
- “Site” means the facility, land, installation or premises to which Pure is granted access for the purposes of the Contract and may include any combination of the foregoing.

2. PURE'S OBLIGATIONS

- 2.1 Pure will perform the Services in accordance with the procedures described in the Proposal, using reasonable skill, care and diligence and consistent with industry standards.
- 2.2 Pure will ensure that the equipment used in performing the Services is in a good and functional state.

3. CLIENT'S OBLIGATIONS

- 3.1 The Client will provide to Pure full, good faith co-operation to assist Pure in providing the Services. Unless otherwise specified in the Proposal and without limiting the generality of the foregoing, the Client will at its own expense:
- (i) ensure, if required, access to private land will be given to Pure and that any official permits or permissions required for Pure to have access to the Site or carry out the Services are obtained and are in force for the duration of the Services;
 - (ii) inform Pure in writing of any special circumstances or danger which the execution of the Services may entail or which are inherent in the Site, including the existence and identity of any known hazardous substance or material;
 - (iii) perform such additional duties and responsibilities and provide such information and resources as are described in the Proposal.

- 3.2 The description of the Services and related compensation amount set out in the Proposal will be based upon information that the Client shall have provided to Pure, and assumptions that Pure shall have identified in the Proposal. The Client acknowledges that if any such information provided by Client is materially incomplete or inaccurate, or if the assumptions identified by Pure are not correct, then the parties will modify the Proposal to reflect the actual information, assumptions, and Services required, and the compensation to Pure will be adjusted accordingly using the change order process set out in the Contract, or if there is no such process, on an equitable basis.
- 3.3 Client will pay Pure within 30 days of Client's receipt of an invoice therefrom. Client acknowledges that Pure is entitled to payment for any and all Services performed hereunder up and until the date of the full completion of such Services.
- 3.4 Upon Client's termination of the provision of Services or any goods by Pure hereunder, Pure will be entitled to payment for any and all goods and Services provided up to and until the date Pure receives notice of termination from Client. Such payments will be at the rates as provided to Client in the Proposal.

4. PROPRIETARY AND CONFIDENTIAL INFORMATION

- 4.1 All reports generated in the performance of the Services and delivered by Pure to the Client will become the property of the Client.
- 4.2 Pure's equipment which is made available to the Client in connection with the Contract and the raw data generated in the performance of the Services will remain the sole and exclusive property of Pure. The Client will not acquire any proprietary rights in Pure's equipment, systems, software, technology, inventions (whether or not patentable), patents, patent applications, documentation, specifications, designs, data, databases, methods, processes or know-how ("Pure's Proprietary Technology"). Any modifications or improvements to the Pure's Proprietary Technology made during the performance of the Services will be the sole and exclusive property of Pure.
- 4.3 Both parties agree to keep confidential all documentation and information provided by the other during the performance of the Contract. The obligations set out in this clause 4.3 will remain in full force and effect after any termination or expiry, as the case may be, of the Contract.
- 4.4 Notwithstanding anything herein to the contrary, Contractor will have a limited, non-exclusive, royalty-free license to utilize data collected and received in the performance of services hereunder for purposes of (a) providing services, (b) analyzing and improving the services, and (iii) internal research and development for the benefit of Contractor clients.

5. LIABILITY AND WARRANTIES

- 5.1 Pure will indemnify and hold the Client harmless against any expense, demand, liability, loss, claim, lawsuit or proceeding whatsoever in respect of personal injury to or the death of any person, or any loss, destruction or damage to any tangible property and arising directly or indirectly from the negligence of Pure, its employees, servants or agents except to the extent caused by the negligence of the Client or any person for whom the Client is responsible. The Client will similarly indemnify Pure.
- 5.2 Pure will not be liable for any loss of production, loss of use of property, loss of revenue or profit, equipment downtime, business interruption, loss of goodwill, loss of anticipated savings, cost of procurement of substitute goods or services,

or for any consequential, indirect, incidental, or special loss or damage suffered by the Client or any third party, or for any punitive damages, even if advised of the possibility thereof and notwithstanding the failure of essential purpose of any remedy.

5.3 Pure's cumulative liability hereunder, whether in contract, tort, or otherwise, will in no event exceed the greater of (i) the aggregate consideration paid by the City to Pure for the portion of the Services that gave rise to the liability, or (ii) \$2 million; provided, however, that this clause shall not limit Pure's indemnification obligations hereunder. The report(s) and any other recommendations or advice made by Pure relating to the pipeline or the Services will be made in accordance with the procedures described in the Proposal, using reasonable skill, care and diligence consistent with industry standards, but do not and will not constitute a warranty of the pipeline's quality, capacity, safety or fitness for purpose. Pure will not be liable to the Client for any liability or damages that arise from the Client's reliance upon or application or use of such final report or recommendations or advice made by Pure in relation to the pipeline or Services, and the Client will indemnify Pure against any liability to third parties resulting therefrom.

5.4 Pure's warranties for the Services will be set out in the Contract. Pure disclaims all implied or statutory warranties or conditions, including of merchantability, merchantable quality, durability, or fitness for particular purpose to the extent allowed by applicable law. This means Pure's warranty obligations will be limited to what is expressly set out in the Contract.

6. Insurance

Pure will provide the Client with a certificate of insurance evidencing the following coverages:

6.1	Commercial General Liability	\$2,000,000
6.2	Automobile Liability	\$1,000,000
6.3	Workers Compensation	Statutory
6.4	Professional Liability	\$500,000

7. Special Conditions/Acknowledgement of Events.

Pure and Client (the "Parties") acknowledge and agree that the global COVID-19 pandemic ("COVID-19") is ongoing, dynamic, unpredictable, and as such may impact the ability of Pure to meet its obligations under this Agreement. The Parties agree that, for so long as there is an impact of COVID-19 on Pure's performance, all performance efforts by Pure will be on a reasonable efforts basis only and Pure shall not be responsible for failure to meet its obligations, to the extent that it is precluded from doing so as a result of COVID-19. The Parties shall work, in good faith, to make any reasonable adjustments that may be required as a result of COVID-19.

Upon acceptance of the proposal and conditions of engagement, please sign, scan and email to brad.gresham@xylem.com

WACHS WATER SERVICES

CITY OF BARNESVILLE, GA

BY: _____
(NAME)

BY: _____
(NAME)

Print Name

Print Name

TITLE: _____

TITLE: _____

DATE: _____

DATE: _____