

AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT, MADE AS OF THIS 3rd day of March, 2026, by and between the City of Joliet, Illinois, an Illinois Municipal Corporation, (hereinafter called the "City") and McKim & Creed, Inc., (hereinafter called the "Consultant"), collectively referred to as the "Parties" herein, is an AGREEMENT for professional services.

NOW, THEREFORE, the City and the Consultant in consideration of the mutual covenants hereinafter set forth agree as follows:

SECTION 1 – SERVICES OF THE CONSULTANT

1.1 The Project scope of work is defined in the attached Letter Proposal dated February 3, 2026.

1.2 The City and the Consultant, by mutual agreement, shall determine the final schedule.

1.3 The Consultant shall perform its services consistent with the professional skill and care ordinarily provided by Consultants in their line of work, under similar circumstances. The Consultant will use their best professional judgment in the course of the work. Design criteria, guidelines and other standards shall be supplemented by the professional judgment of the Consultant. Deviations from design criteria, guidelines and other standards shall be called to the attention of the City's representative.

SECTION 2 – THE CITY'S RESPONSIBILITIES

The City will:

2.1 Provide full information as to the requirements for the Project in a timely manner in which the Consultant may reasonably rely on with regard to its completeness and accuracy.

2.2 Designate in writing a person to act as the City's representative with respect to the work to be performed under this Agreement; and such person shall have complete authority to transmit instructions, receive information, interpret, and define the City's policies and decisions with respect to materials, equipment elements and systems pertinent to the work covered by this Agreement.

2.3 Guarantee access to and make all provisions for the Consultant to enter upon the City's facilities as required for the Consultant to perform their work under this Agreement.

2.4 Examine all studies, reports and other documents presented by the Consultant and shall render decisions pertaining thereto within seven (7) calendar days from receipt so as not to delay the work of the Consultant.

2.5 Obtain approval of all governmental authorities having jurisdiction over the Project and such approvals and consents from such other individuals or bodies as may be necessary for completion of the Project.

SECTION 3 – PAYMENTS TO THE CONSULTANT

3.1 The City will pay the Consultant for the professional services performed under SECTION 1, in an amount not to exceed \$168,000.00

3.2 Invoices for payment shall be submitted by Consultant to the City, together with reasonable supporting documentation. The City may require such additional supporting documentation as City reasonably deems necessary or desirable. Payment to Consultant shall be made in accordance with the Illinois Local Government Prompt Payment Act, after City's receipt of an invoice and all such supporting documentation.

3.3 Payment to the Consultant for expenses associated with direct costs or reimbursable expenses, as dictated by the Agreement and/or Scope of Services, shall be made upon presentation of receipts for costs or expenses.

SECTION 4 – TIME OF COMPLETION

4.1 The Consultant shall complete the project within 400 days of the date of execution of this Agreement, subject to time extensions to such schedule arising from delays beyond Consultant's control. To the extent Consultant is impacted by such delays, Consultant shall be entitled to an adjustment to its schedule for performance.

4.2 Time is of the essence for this Agreement.

4.3 The Consultant shall commence work within ten (10) calendar days of the date of execution of this Agreement or such other time mutually agreed to by the Parties in writing.

4.4 The Consultant may request an extension to complete the scope of work, and the City may grant such extension in a subsequent contract amendment.

SECTION 5 – RIGHTS TO DELIVERABLES

5.1 Deliverables, as defined in the Scope of Work, shall become the City's permanent property upon payment by the City to the Consultant.

5.2 Consultant shall not use photographs of the Deliverables for project competition, awards of any nature, project testimonials, presentations, advertising, proposals, professional papers, public display, or any other use without obtaining prior written approval from the City's representative, which will not be unreasonably withheld. Any photographs taken of City property in the execution of the Consultant's work may not be re-used by the Consultant for project competition, awards of any nature, project testimonials, advertising, proposals, presentations, professional papers, public display, or any other use without obtaining prior written approval from the City's representative.

SECTION 6 – REMOVAL AND REPLACEMENT OF PERSONNEL

6.1 Consultant (for the duration of the term of the Agreement) will not, without obtaining the City's prior written consent not to be unreasonably withheld, replace, or alter the assignment of its lead personnel, to the extent their respective availability is reasonably within the Consultant's control.

6.2 Consultant shall promptly remove any person assigned to perform the Services in the event of notification by the City that he/she is no longer acceptable, irrespective of any prior City consent. Replacement of lead personnel, prior to assignment, will be subject to the City's approval, which shall not be unreasonably withheld.

6.3 A violation by Consultant of paragraph 6.1 and/or 6.2 may be considered a substantial and material breach of Agreement, for which termination and damages otherwise provided by Law or the Agreement may be claimed.

6.4 The City's right to request the removal of Consultant's personnel from the Services as set forth in paragraph 6.2 does not expressly or implicitly create an employer-employee relationship between the City and personnel assigned by Consultant. Such a relationship is expressly denied herein by Consultant and the City.

SECTION 7 – INSURANCE

The Consultant shall maintain for the duration of the Agreement, insurance purchased from a company, or companies lawfully authorized to do business in the State of Illinois and having a rating of at least A-minus as rated by A.M. Best Ratings. Such insurance will protect the Consultant from claims set forth below which may arise out of or result from the Consultant's operations under the agreement and for which the Consultant may be legally liable, whether such operations be by the Consultant or by a SubConsultant or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

Worker's Compensation Insurance covering all liability of the Consultant arising under the Workers' Compensation Act and Occupational Diseases Act; limits of liability not less than statutory requirements.

Employers Liability covering all liability of Consultant as employer, with limits not less than: \$1,000,000 per injury – per occurrence; \$1,000,000 per disease – per employee; and \$1,000,000 per disease – policy limit.

Comprehensive General Liability in a broad form on an occurrence basis, to include but not be limited to, coverage for the following where exposure exists; Premises/Operations, Contractual Liability, Products/Completed Operations for 2 years following final payment, Independent Consultant's coverage to respond to claims for damages because of bodily injury, sickness or disease, or death of any person other than the successful proposers employees as well as claims for damages insured by usual personal injury liability coverage which are sustained (1) by a person as a result of an offense directly or indirectly related to employment of such person by the Consultant, or (2) by another person and claims for damages, other than to the Work itself, because

of injury to or destruction of tangible property, including loss of use there from; Broad Form Property Damage Endorsement;

General Aggregate Limit	\$ 2,000,000
Each Occurrence Limit	\$ 1,000,000

Automobile Liability Insurance shall be maintained to respond to claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance, or use of a motor vehicle. This policy shall be written to cover any auto whether owned, leased, hired, or borrowed.

Each Occurrence Limit	\$1,000,000
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Professional Liability Insurance shall be maintained to respond to claims for damages due to the Consultant's errors and omissions.

Errors and Omissions	\$1,000,000
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Consultant agrees that with respect to the above required insurance:

1. The CGL policy shall be endorsed for the general aggregate to apply on an annual basis.
2. To provide separate endorsements: to name the City of Joliet and its officers and employees as additional insured as their interest may appear, and to provide 30 days' notice, in writing, of cancellation or material change.
3. The Consultant's insurance shall be primary in the event of a claim.
4. The City of Joliet shall be provided with Certificates of Insurance and endorsements evidencing the above-required insurance, prior to commencement of an agreement and thereafter with certificates evidencing renewals or replacements of said policies of insurance at least thirty (30) days prior to the expiration of cancellation of any such policies.
5. A Certificate of Insurance that states the City of Joliet and its officers and employees have been endorsed as an "additional insured" by the Consultant's general liability and automobile liability insurance carrier. Specifically, this Certificate must include the following language: "The City of Joliet and its officers and employees are, and have been endorsed, as an additional insured under the above reference policy number 20MCKIMCRE on a primary and non-contributory basis for general liability and automobile liability coverage for the duration of the contract term."

Failure to Comply: In the event the Consultant fails to obtain or maintain any insurance coverage required under this Agreement, the City of Joliet may purchase such insurance coverage and charge the expense thereof to the Consultant. Such insurance shall be maintained in full force and effect during the life of the Agreement and shall protect the Consultant, its employees, agents and representatives from claims for damages, for personal injury and death and for damage to property

arising in any manner from the negligent or wrongful acts or failures to act by the Consultant, its employees, agents and representatives in the performance of the work covered by the Agreement. The Consultant shall also indemnify and save harmless the City from any claims against, or liabilities incurred by the Consultant of any type or nature to any person, firm or corporation arising from the Consultant's wrongful or negligent performance of the work covered by the Agreement.

SECTION 8 – SUCCESSORS AND ASSIGNS

The City and the Consultant each binds himself and his partners, successors, executors, administrators and assigns to the other party of this Agreement and to the partners, successors, executors, administrators and assigns of such other party, in respect to all covenants of this Agreement; except as above, neither the City nor the Consultant shall assign, sublet or transfer his interest in this Agreement without the written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any employee, officer or agent of any public body or the Consultant which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the City and the Consultant.

SECTION 9 – NON-DISCRIMINATION

In all hiring or employment made possible or resulting from this Agreement, there shall be no discrimination against any employee or applicant for employment because of sex, age, race, color, creed, national origin, marital status or the presence of any sensory, mental or physical handicap, unless based upon a bona fide occupational qualification, and this requirement shall apply to, but not be limited to, the following: employment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. No person shall be denied or be subjected to discrimination in receipt of the benefit of any services or activities made possible by or resulting from this Agreement on the grounds of sex, race, color, creed, national origin, age except minimum age and retirement provisions, marital status, or the presence of any sensory, mental, or physical handicap. Any violation of this provision shall be considered a violation of a material provision of this Agreement and shall be grounds for cancellation, termination, or suspension, in whole or in part, of the Agreement by the City.

SECTION 10 – MODIFICATION OR AMENDMENT

This Agreement constitutes the entire Agreement of the Parties on the subject matter hereof and may not be changed, modified, discharged, or extended except by written amendment duly executed by the Parties. The Consultant agrees that no representations or warranties shall be binding upon the City unless expressed in writing herein or in a duly executed amendment hereof, or authorized or approved Change Order as herein provided.

SECTION 11 – APPLICABLE LAW AND DISPUTE RESOLUTION

11.1 This Agreement shall be deemed to have been made in and shall be construed in accordance with the laws of State of Illinois.

11.2 Any controversy, claim or dispute arising out of or relating to the interpretation, construction, or performance of this Agreement, or breach thereof, shall be referred to the

American Arbitration Association (the “AAA”) for a voluntary, non-binding mediation in the municipality where the Services are provided and to be conducted by a mutually acceptable single mediator, in accordance with then applicable Construction Industry Mediation Rules, prior to resorting to litigation to any State or Federal Court located nearest to where the Services are provided. Neither party shall be liable for any indirect, incidental, or consequential damages of any nature or kind resulting from or arising in connection with this Agreement. The Parties shall share the cost of the mediator’s services equally.

WITH RESPECT TO ANY SUCH LITIGATION, EACH PARTY HEREBY KNOWINGLY, VOLUNTARILY AND WILLINGLY WAIVES ALL RIGHTS TO TRIAL BY JURY IN ANY ACTION, SUIT, OR PROCEEDING BROUGHT TO RESOLVE ANY DISPUTE BETWEEN OR AMONG ANY OF THE PARTIES HERETO, WHETHER ARISING IN CONTRACT, TORT, OR OTHERWISE, ARISING OUT OF, CONNECTED WITH, RELATED OR INCIDENTAL TO THIS AGREEMENT, THE TRANSACTION(S) CONTEMPLATED HEREBY AND/OR THE RELATIONSHIP ESTABLISHED AMONG THE PARTIES HEREUNDER.

SECTION 12 – TERMINATION OF THE CONTRACT

12.1 TERMINATION BY THE CONSULTANT

If the Work is stopped for a period of thirty days under an order of any court or other public authority having jurisdiction, through no fault of the Consultant, or if the City has not made timely Payment thereon as set forth in this Agreement, then the Consultant may upon twenty-one (21) days written notice (from postmark) to the City, terminate the Agreement.

12.2 TERMINATION BY THE CITY

In the event of any breach of this Agreement by the Consultant, the City may, at its option, serve the Consultant with a written seven (7) day notice (from postmark) with the Consultant’s option to cure the breach, or the City may engage the services of another Consultant to complete the work and deduct the cost of such completion from any amount due the Consultant hereunder, or the City may either pause or terminate the contract.

IN WITNESS WHEREOF, the undersigned have placed their hands and seals upon and executed this Agreement in triplicate as though each copy hereof were an original and that there are no other oral agreements that have not been reduced to writing in this statement.

CITY OF JOLIET

McKim & Creed, Inc.

By: _____

By: _____

H. Elizabeth Beatty

Name: S. Barry Hales

City Manager

Title: VP, Asset Management

Date: _____

Date: 2/18/2026

ATTEST:

By: _____

Lauren O'Hara

City Clerk

Date: _____



CONTRACT TERM | 12-MONTH

FEBRUARY 3, 2026

DISTRICT METERED AREA MANAGEMENT

SUBMITTED TO:

TONY ANCZER, CITY OF JOLIET

150 W. Jefferson Street
Joliet, IL 60432

SUBMITTED BY:

MCKIM & CREED, INC.

Wilmington, North Carolina
910.343.1048 | mckimcreed.com



MCKIM & CREED
ENGINEERS SURVEYORS PLANNERS



City of Joliet

DISTRICT METERED AREA MANAGEMENT



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1 About McKim & Creed

WHO WE ARE & WHAT WE DO

We are an **employee-owned engineering** and surveying firm of people helping people solve complex, demanding infrastructure challenges. Our proven integrated approach leverages national and localized subject matter experts who can provide fresh ideas based on lessons learned from a wide array of clients, while still being available to support you at a moment's notice.

Our technical specialties include civil, instrumentation & controls, electrical, mechanical, and structural engineering; industrial design-build services; airborne and mobile LiDAR/scanning; unmanned aerial systems; subsurface utility engineering; and hydrographic and conventional surveying services for the energy, transportation, federal, land development, water, and building markets.

OUR DIVERSITY OF SERVICES RESULTS IN EFFECTIVE SOLUTIONS:



WATER ASSET MANAGEMENT



GEOSPATIAL



MECHANICAL, ELECTRICAL, PLUMBING



WATER AND WASTEWATER



DESIGN-BUILD

**OUR PASSION TO HELP OTHERS
MOTIVATES US TO MAKE A
DIFFERENCE.**



#155

TOP 500
DESIGN FIRM
[ENR]



#141

TOP 200
ENVIRONMENTAL
FIRM [ENR]



#62

TOP MID-ATLANTIC
DESIGN FIRM
[ENR]



#8

TOP TRENCHLESS
TECHNOLOGY FIRM

INDUSTRY RANKINGS

2 Water Resources

Water infrastructure in the United States serves 190 million people through more than 16,000 plants and 600,000 miles of pipeline. Ongoing access to clean / safe water is a major focus for our team.

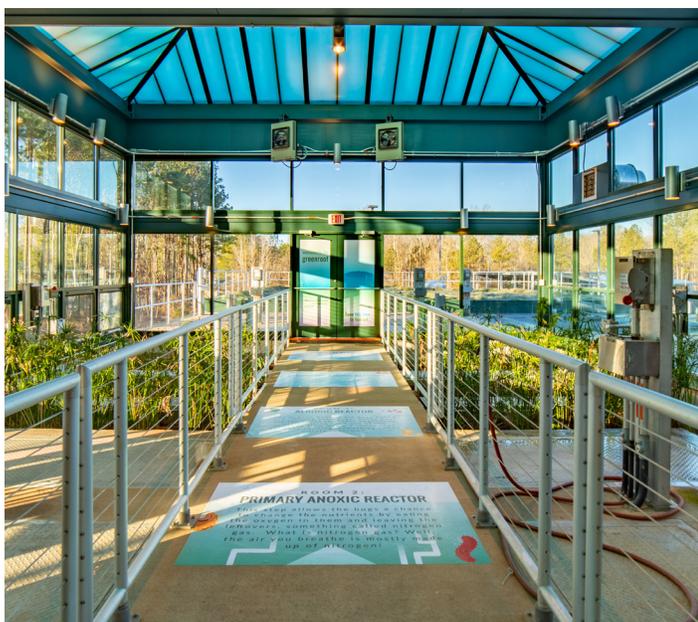
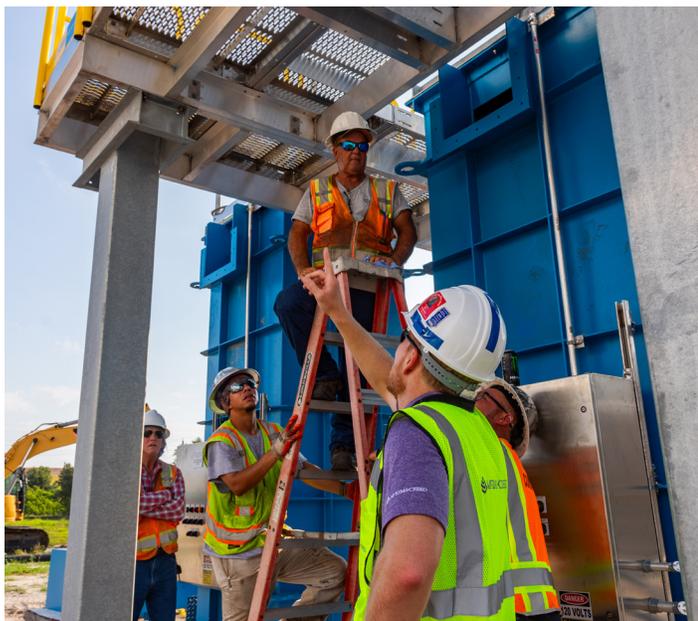
Our award-winning water management engineers consistently strive to develop new and efficient ways to improve, sustain, clean, manage and maintain our nation's water. And we find unique solutions for additional and alternative water sources when supply is an issue.

McKim & Creed plans and designs systems that treat, preserve and conserve the earth's finite water resources. Systems that include infrastructure that prevent water loss, meet stringent regulations and improve drinking water quality. Open-source I&C/SCADA systems and hydraulic models that help communities leverage their infrastructure. Water reuse systems that conserve potable water.

Stormwater programs that manage entire watersheds. Wastewater treatment plants that produce safe, clean effluent. And survey data for floodplain mapping, surge models, sea level rise studies and pre and post-storm surveys.

SERVICES

- ✓ NRW Management
- ✓ Data Engineering
- ✓ Field Maintenance
- ✓ In Field Metering
- ✓ Construction Administration
- ✓ Construction Observation
- ✓ Distribution System Design
- ✓ Engineering Reports
- ✓ Environmental Reports
- ✓ Environmental Assessments
- ✓ Feasibility Studies
- ✓ Funding Application
- ✓ Infrastructure Rehabilitation
- ✓ Line Replacement
- ✓ Master Planning
- ✓ Operations Support & Program Management
- ✓ Permitting
- ✓ Plant Start-Up
- ✓ Rate Studies
- ✓ Regulatory Compliance Support
- ✓ Storage
- ✓ Supply Surveying & Mapping
- ✓ System Analysis
- ✓ Treatability Studies
- ✓ Water Resource Development and Planning
- ✓ Water Resources Management





NON-REVENUE WATER (NRW) SERVICES

▶ McKim & Creed helps utilities reduce NRW through data-driven leak detection, system optimization, and water accountability. Services include DMA design, acoustic surveys, flow analysis, AWWA audits, and custom reporting.



WATER MANAGEMENT

▶ Our award-winning water management engineers consistently strive to develop new and efficient ways to improve, sustain, clean, manage and maintain water.



WASTEWATER MANAGEMENT

▶ At McKim & Creed, our engineers work with government and private entities to plan, build and maintain wastewater systems that incorporate the most effective technologies to meet the community's needs.



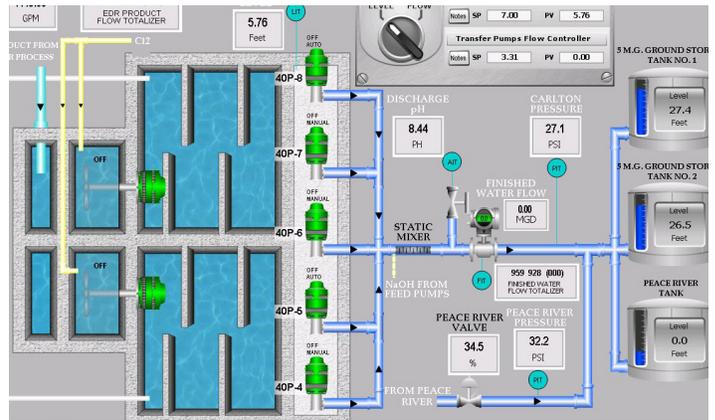
RENEWAL & REPLACEMENT

▶ McKim & Creed's closed circuit TV (CCTV) inspection systems provide a full, 360-degree interior view of your aging infrastructure. High-quality imagery coupled with faster production rates mean that your dollars can be spent fixing your aging infrastructure issues, rather than simply studying the problem.



DESIGN BUILD

▶ Our alternative delivery professionals are experienced in all aspects of design-build, including project development, design, estimating, procurement, scheduling, budget management, safety, construction, start up, operations and project management.



INSTRUMENTATION & CONTROLS/SCADA

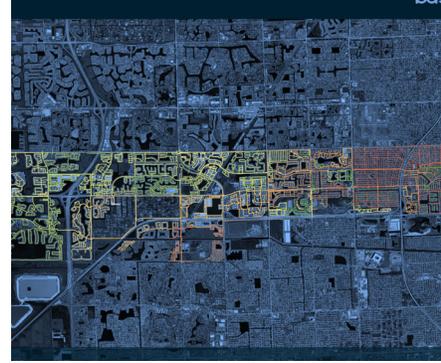
▶ Through our approach of collaborative teamwork, outstanding engineering design, seamless system integration, thorough training and ongoing support, we plan, design and implement in-plant and system-wide instrumentation and controls / SCADA systems that enable utilities to operate efficiently, effectively and safely.

“

"We absolutely love the work they do for us with our leak detection program. The professionalism and knowledge they have is amazing, we look forward to working with them in the near future."

SABRINA CLARK
ADMINISTRATIVE COORDINATOR

Village of Miramar, Florida | Leak Detection Services Contract



3 Water Asset Management

QUALIFICATIONS & EXPERIENCE

McKim & Creed acquired Matchpoint, a non-revenue water and water loss recovery company, in October 2020. The former Matchpoint team now operates as the Water Asset Management division under McKim & Creed's comprehensive water services umbrella, enhancing the team's strength with additional resources, expertise, and experience. While vision drives us, value is our promise. We are committed to helping clients conserve valuable resources by revitalizing water infrastructure.

WATER IS INVALUABLE AND IT IS OUR MISSION TO SAVE AND MAKE BETTER USE OF IT.

We offer a comprehensive suite of SMART water solutions that support the stewardship efforts of utilities, municipalities, and commercial enterprises across North America and the Caribbean. Our offerings include innovative technology, expert training, skilled support, and turnkey service solutions for effective water asset management. The Water Asset Management (WAM) team at McKim & Creed boasts over 100 years of combined expertise in the water industry and water loss management. Data as a Service Solutions are central to WAM's methodology, utilizing robust technologies and best practices grounded in validated and historical data collected from system sensors. This data-driven knowledge empowers organizations to make swift and reliable decisions, with solutions tailored to each customer's specific needs.



In addition to our field services, we established a Certified Service Center in North Carolina in 2016 to better serve clients by providing service, repair, and calibration of leak detection and network monitoring equipment. **McKim & Creed has been a business partner with ESRI, a GIS software for mapping and spatial analytics, for over 20 years.** Our commitment to customer objectives is at the core of our operations. We collaborate closely with clients and their teams to ensure our solutions effectively and efficiently meet their needs.

SERVICES

- ✔ Leak Detection: Acoustic and in-pipe inspections
- ✔ Network Monitoring and Data Analytics
- ✔ DMA & Data as a service system, Including Infrared Assessment
- ✔ Training and Support
- ✔ Rental Program
- ✔ Equipment Service, Repair, and Calibration
- ✔ Consultation and Design Services
- ✔ Asset Management
- ✔ Subsurface Utility Engineering (SUE)
- ✔ GPS/GNSS Data
- ✔ GIS Mapping Partnered with ESRI

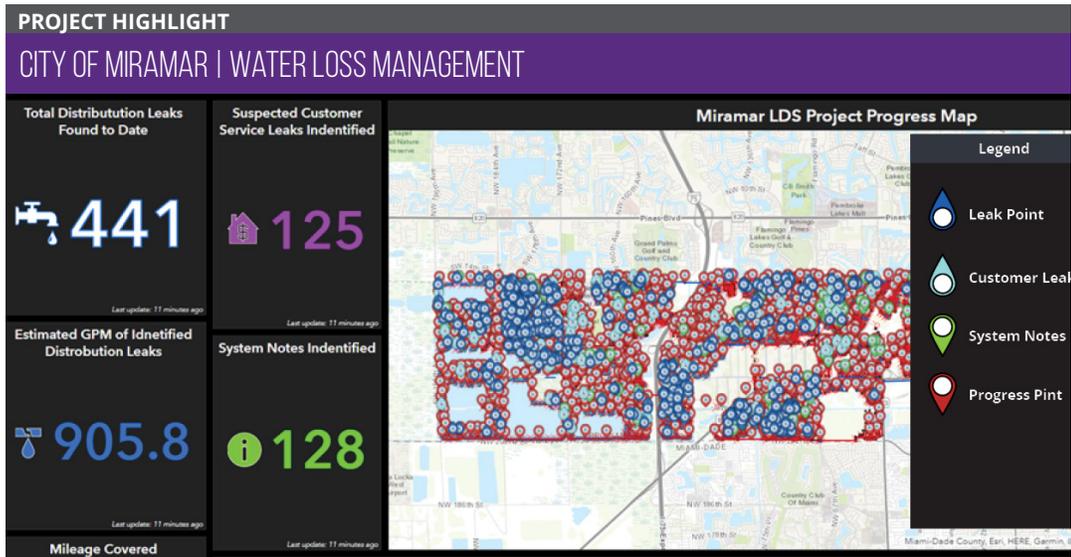
McKim & Creed's Water Asset Management division offers a comprehensive suite of solutions designed to empower utilities, municipalities, and commercial enterprises in effectively managing their water infrastructure. With a focus on innovation and expertise, the division provides advanced technology, expert training, and turnkey service solutions. Central to these offerings is Data as a Service Solutions, which leverage robust technologies and best practices grounded in validated and historical data to provide actionable insights. This empowers organizations to make informed decisions swiftly and reliably, ensuring the efficient stewardship of water resources across North America and the Caribbean.

Data analysis plays a crucial role in this process by examining, organizing, and interpreting data to uncover patterns and trends. It often includes data visualization to communicate findings clearly, predictive modeling to anticipate future outcomes, and optimization techniques to improve efficiency. **Ultimately, data analysis helps businesses make informed decisions, serving as a critical driver of business success and innovation.**



OUR SOLUTIONS

- ✓ Risk Management
- ✓ Network Monitoring & Data Analytics
- ✓ Leak Detection: Acoustic & In-Pipe Services
- ✓ Training Support
- ✓ Financing
- ✓ GIS Mapping
- ✓ Satellite & UAS Based Infrastructure Assessment
- ✓ Rental Program
- ✓ Service and Calibration



The City of Miramar faced imminent water source limits, prompting a focus on reducing water loss. City staff observed a rise in water production that didn't align with population growth or new connections. After analyzing flow and pressure, McKim & Creed conducted a leak detection survey on 80 miles of pipelines, identifying 289 distribution leaks and 30 customer leaks, most of which were not visible on the surface. The team accurately located 90% of the leaks, enabling efficient repairs that saved time, money, and minimized service disruptions. This effort reduced the City's water demand by about 1 million gallons per day, saving 1,304,352 gallons daily and generating \$2 million annually. Due to this success, McKim & Creed was chosen for a multi-year program to overhaul the water distribution system, including surveys, monitoring, design, and construction, allowing the City to prioritize repairs for optimal investment returns.

ACCOMPLISHMENTS AND ACCOLADES



MONITORING 1,000'S MILES OF PIPES.



100+ YEARS OF COMBINED EXPERIENCE



TRAINING 100'S OF WATER COMPANIES IN WATER LOSS RECOVERY AND CONTROL.



EXECUTING NUMEROUS LEAK DETECTION SURVEYS SUCCESSFULLY.



SERVING CUSTOMERS NATIONWIDE AND IN THE CARIBBEAN.

4 Key Personnel

Assembling the right team is crucial for executing a successful project. We have gathered a diverse team of professionals specializing in water asset management, and community outreach. They possess extensive experience and understand the intricacies of city-wide water asset management and neighborhood-level utility improvement projects.



Robbie Eisenrich
DAAS AND GIS PROGRAM MANAGER

Robert Eisenrich is the DaaS & GIS Program Manager at McKim & Creed, leading data-driven solutions for utilities and infrastructure. With experience in project management, IoT, and software engineering, he builds scalable systems that connect development and operations. He holds certifications in Data Science, Database Design, and Python, applying these skills to drive practical innovation in water analytics and asset management.

Certifications

- ✓ Python for Data Science | Cornell University | 2021
- ✓ Python Programming | Cornell University | 2020
- ✓ Amazon Web Services (AWS) Solutions Architect Associate | AWS | 2019
- ✓ AF Database | OSIsoft | 2018
- ✓ Graduate Certificate Geographic Information Systems | University of North Carolina at Wilmington | 2017

Robbie has proven himself as a trusted voice when leading project coordination efforts, both internally with Utility personnel and with external parties including project specific stakeholders and the general public.



Ariel Fernandez
SUPPORT SERVICES DIRECTOR/WATER ASSET MANAGEMENT

Ariel was selected from the AMR/AMI group to master water asset management. His extensive travel on Matchpoint's projects across the Caribbean and North America has connected him with top industry experts and technology. Ariel has significant experience in meter installation, testing, leak detection, and project management. He currently oversees technical support for Primayer and Hydreka product sales, including customer demonstrations and presentations. Ariel also leads internal and external training on leak detection and water asset management. He is committed to advancing Matchpoint's goals to ensure accurate water accounting and provide consumers with essential efficiency information.

Certifications

- ✓ OSHA Safety Trained and Certified
- ✓ Confined Space/Permit Safety Certified
- ✓ EU and U.S. Water Asset Management Certified
- ✓ Matchpoint Certified Operator and Trainer
- ✓ Certified Leak Detection Technician
- ✓ Certified Insertion Flow Meter
- ✓ Certified in NRW/DMA Management Pipe Location
- ✓ Certified in Trimble GPS Operation and Data Management
- ✓ Hydreka and Ovarro Ltd Level II Certified
- ✓ Certified Factory Technician Level II

Ariel will use a proactive approach to engage all stakeholders, identify the City's needs, evaluate options to meet those needs, and recommend the cost-effective solutions that will enhance the City's ability to meet the utility needs of its citizens today and well into the future.

MCKIM & CREED BY THE NUMBERS

47

YEARS IN BUSINESS

36

U.S. OFFICES

1,000+

PROFESSIONALS

220+

LICENSED PEs

140+

PLS LICENSES

17

LEED PROFESSIONALS

KEY TEAM MEMBERS

Alongside Robbie and Ariel, additional professionals will join the asset management team throughout the planning, design, and construction phases, remaining available to address any of the City's inquiries regarding design or operational aspects. While these are key personnel expected to support the project, we may involve other qualified field staff as needed.



Barry Hales
VICE PRESIDENT, WATER
ASSET MANAGEMENT

With 20 years of experience in electric utility metering, design, and deployment, Barry has been instrumental in the deployment and integration of AMR/AMI systems, achieving efficiency gains by leveraging complex rate structures. Additionally, Barry brings 20 years of expertise in deploying and integrating technology into potable water systems, collaborating with utilities to analyze and derive actionable intelligence from "smart" systems. Barry has also established industry practices for deploying, maintaining, and analyzing data from these systems within a subscription-based model.



Tony Popolo
OPERATIONS MANAGER, WATER ASSET MANAGEMENT

Tony began his water utility career in 2012 as a project manager for Matchpoint Inc.'s AMR/AMI division, quickly advancing to oversee all related projects. He expanded his role to lead client coordination, project planning, and supervision for acoustic leak detection and GIS operations. After Matchpoint Inc.'s acquisition by McKim & Creed in 2020, Tony continued in the water sector, focusing on R&D for water asset management and non-revenue water loss recovery. Previously, he managed dredging projects with the US Army Corps of Engineers and other entities, including emergency efforts after the Deepwater Horizon BP oil spill in 2010.

Certifications

- ✔ OSHA Safety Trained and Certified
- ✔ Confined Space/Permit Safety Certified
- ✔ EU and U.S. Water Asset Management Certified
- ✔ Annual Hearing Test Certified
- ✔ Certified Leak Detection Technician
- ✔ Certified Insertion Flow Meter
- ✔ Certified in NRW/DMA Management Pipe Location
- ✔ Certified in Trimble GPS Operation and Data Management
- ✔ Hydreka and Ovarro Ltd Level II Certified

Tony Popolo leverages over a decade of expertise in water utility services to lead McKim & Creed's Non-Revenue Water Recovery Operations, significantly reducing water loss and enhancing infrastructure efficiency through advanced leak detection and client-focused project management.



Jan Rucker
SUPPORT SERVICES SPECIALIST

Jan anchors the our Service Center and is charged with testing and maintaining the equipment we deploy as well as the equipment in use by our clients. His 12 years of field experience enables Jan to provide a real world perspective on the application and performance of the equipment we represent. Jan assists in managing maintenance programs for DDS clients, maintaining flow and pressure monitoring sensors and Data loggers, and providing calibrations for electromagnetic insertion meters. In collaboration with field personnel we are able to ensure data integrity across all of our DDS clients.

Certifications

- ✔ OVARRO Authorized Service Technician
- ✔ Hydreka Authorized Service Technician

Jan Rucker brings 12 years of field experience to anchor the Service Center, ensuring data integrity and optimal performance of equipment for DDS clients through expert testing, maintenance, and calibration services.

As Employee-Owners, our team members are committed to contributing to the success and welfare of our clients and our communities.



5 DISTRICT METERED AREAS (DMAS) SUPPORT



Figure 5.1 | DMA Analytics

McKim & Creed is well versed in District Metered Areas as the supporting software components. Utilizing available DMA software and their generated KPI's McKim and Creed work alongside utility staff to allocate field services to best address water loss or DMA maintenance concerns. Combining McKim & Creed's field services with available data platforms has substantially helped to reduce the time it takes to preform and close maintenance needs.

5 District Metered Areas

Figure 5.1 Illustrates an example of system key performance indicators (KPI) on a per DMA basis. Indicators are specific to the DMA software selected but in general can be used to display maintenance items such as no data or DMA metrics such as NRW.

Figure 5.2 displays GIS information containing data specific to DMA maintenance and site locations. GIS is a critical component of any asset management program allowing for the tracking of field inventory and work orders related to maintenance.

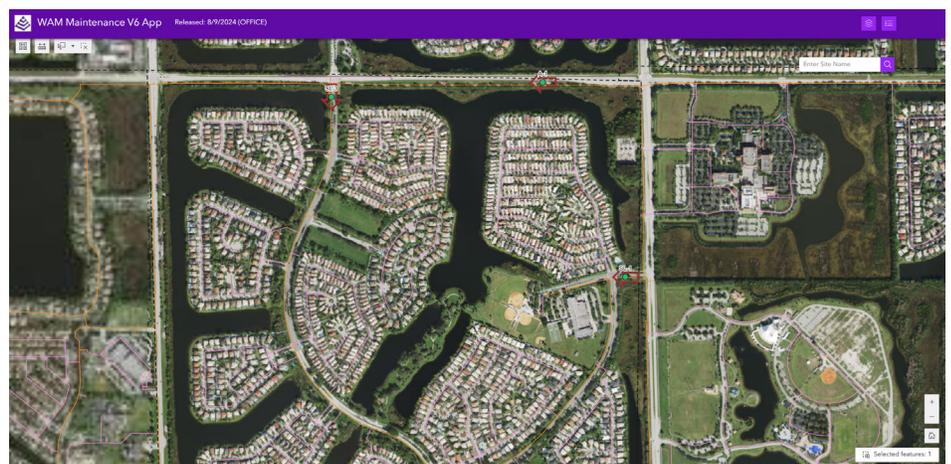


Figure 5.2 | Pressure & Flow Data



6 SERVICE CENTER



6 Service Center

McKim & Creed's Certified Technical Service Center, located in Wilmington, NC, is equipped with state-of-the-art calibration, testing, and repair capabilities, including a hydraulic test bench. Our Service Center is staffed by factory-trained technicians, enabling us to deliver a customer service experience that is unparalleled in the U.S. leak detection, Non-Revenue Water (NRW), and condition assessment industry.

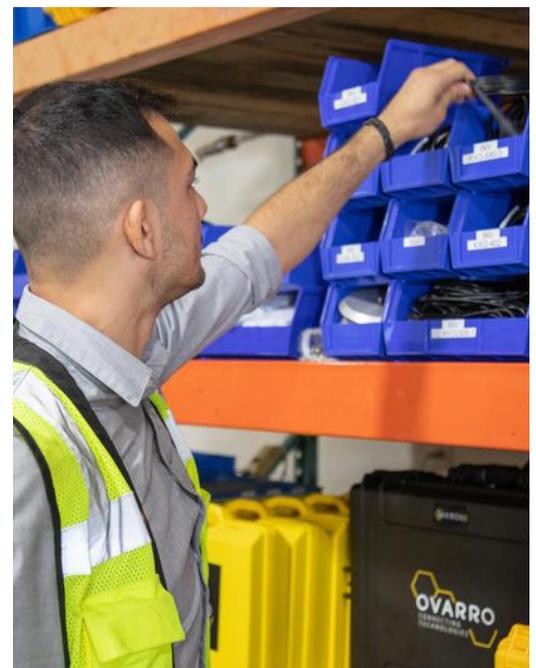
For clients with temporary or urgent needs—such as active leak investigations, pressure/flow monitoring to isolate suspected leak zones, emergency response support, or equipment failures—we maintain a comprehensive inventory of tested and calibrated leak detection and monitoring equipment that is readily available for deployment.

➔ PRODUCT SUPPORT

McKim & Creed's Service Center supports a wide range of leak detection and NRW applications, including leak pinpointing, step testing support, pressure transient monitoring, minimum night flow investigations, and targeted system monitoring to confirm and quantify leakage. Whether your requirements are limited to technology and technical support, or extend to installation, field services, and data analysis, we can provide solutions for both short and long-term needs.

Our Service Center helps clients collect actionable leak detection data without unnecessary complications. Equipment and services may be rented on a one-time or long-term basis depending on your operational needs. Our standard rental program includes high-accuracy flow meters, pressure loggers, and remote telemetry solutions that continuously monitor the distribution network and transmit flow and pressure data for leak evaluation.

McKim & Creed's Factory Certified Technical Service Center manages equipment preparation, configuration, remote support, and calibration services to ensure reliable data and prevent gaps in monitoring. Additionally, McKim & Creed has a dedicated team available to deploy equipment, interpret results, and support leak isolation and repair prioritization, should you require these services.



7 Data as a Service

The Data as a Service (DaaS) Site is structured as a turnkey pricing model for continuous flow and pressure monitoring. The intent of the DaaS approach is to provide consistent, reliable monitoring data while assigning responsibility for equipment management and upkeep to McKim & Creed. This includes inventory management, equipment preparation, maintenance, calibration, and replacement as needed, as well as the associated software and communications required to support ongoing data capture and delivery. This structure reduces the need for upfront capital purchase while maintaining continuity of monitoring throughout the duration of the agreement.

DATA AS A SERVICE (DAAS) SITE

- » \$700/Meter/Month
- » All software / data costs included
- » Initial product purchase included
- » Includes all field service labor
- » **Includes no-cost lease on loan equipment and or servicing for:**
 - Meter
 - Data Logger
 - Meter Calibration/Serviceing
 - **Supporting components and or servicing**
 - Wiring
 - Antennas
 - Batteries
 - Installation brackets and or bushings

Table 7.1 | DaaS Site

Service/Product	Cost	Responsibility
DMA Meter	\$700/Meter/Month	McKim & Creed
Meter	\$6,700	McKim & Creed
Data Logger	\$6,000	McKim & Creed
Calibration	\$2,000	McKim & Creed
Batteries	\$100	McKim & Creed
Support Components Package	\$50	McKim & Creed
Product Replacement Rental	N/A	McKim & Creed



**BUILT TO SUPPORT
YOUR PROGRAM
EFFICIENTLY AND
COST-EFFECTIVELY**





Leak Detection Methodology

PHASE ONE: ACOUSTIC LEAKAGE INSPECTION TECHNOLOGY

McKim & Creed will utilize all available assets and access points to provide a thorough and complete initial investigation of the area we are contracted to survey.

- » The area of investigation will be inspected initially with manual sounding equipment which includes the listening stick and ground microphone technology.
- » We will inspect all fire hydrants, valves, and service connections at comprehensive distances based on the pipe material to accurately identify the presence of leak noise for pinpointing activities.
- » When warranted, acoustic noise loggers will be placed in a designated system area on direct contact points during daytime hours and set to listen overnight when the system is at highest pressure and ambient noise is less of an obstruction.

PHASE TWO: LEAKAGE PINPOINTING

All suspect leak locations will be subjected to further detection practices including a second visit for verification. **Multiple leaks will be prioritized based on severity and/or consequence of failure.**

📍 EQUIPMENT AND FUNCTIONALITY: CORRELATOR

- » Two or more correlation loggers will be placed on direct contact points surrounding the identified leak. Pipe material, logger distance, and pipe size are entered into the system.
- » The correlator uses the information, listens for leakage, and programmed algorithms generate the leak velocity and location of the leak in feet from each contact point.

The field crew will then physically measure out the distance from each logger above the pipeline as indicated by provided system maps. McKim & Creed will utilize pipe locators to find the pipelines and map the system if needed, prior to conducting the correlation.

📍 CONFIRMATION

To ensure maximum precision and leak point accuracy, it is McKim & Creed's protocol to confirm all pinpointed leaks by listening over the pinpointed location using a ground microphone, or hand probing over the line for additional confirmation on the precise location where leakage is occurring.

📍 REPORTING RESULTS

Once confirmed, **the pinpointed location is marked and reported via a daily leak card and report. Any repaired leakage locations identified will be revisited post repair within the project timeline** for a verification that no other leakage noise remains present in the immediate area.



PHASE THREE: REAL-TIME PROJECT DASHBOARD AND REPORTING

📍 REAL-TIME PROJECT DASHBOARD

The McKim & Creed field team will use an Esri-based data collection device to collect all reported findings and plot out progress. The collected project data is overlaid onto the client's existing mapping information and is made available for real-time viewing on our Esri dashboard.

The Esri online dashboard is made available to the client group for monitoring real-time project progress maps, statistics, and other project information throughout the investigation for each survey area. This dashboard can also be customized to the client's requests and needs. It serves as a quick reference with up-to-date project data in addition to our standard daily and weekly reporting processes.

📍 WEEKLY CUMULATIVE REPORTS

Progress reports will be submitted weekly with all project data, including all cumulative information for the week, thus serving as a daily and weekly report combined. The report includes cumulative information gathered to date, including:

- » Details of Leaks Located (including type, visible versus non-visible, size, location)
- » Mileage Surveyed
- » Location and Status of Loggers Deployed
- » Number of Fittings Sounded
- » Estimated Gallons per Minute Found to Date for Each Utility Served
- » Suspected Custom Service Leaks
- » System Notes
- » Requested Customer Shutoffs

📍 PROJECT SUMMARY REPORT

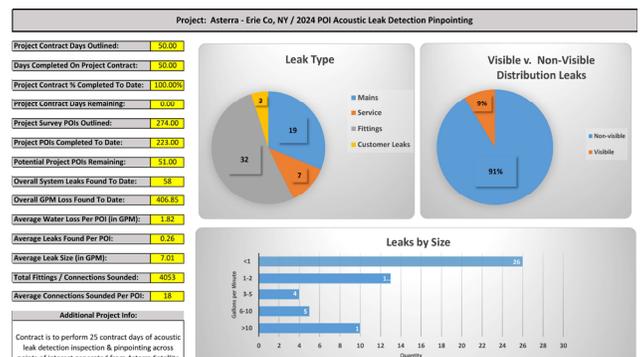
A comprehensive report will be prepared and submitted within 30 working days upon completion of the investigation. The summary report includes a final version of our daily report, combined PDF file of all leak cards submitted for the project, all correlation reports conducted during the project and project/system specific recommendations based on our investigation analysis. Other supporting documentation gathered throughout the project may be included as well. Furthermore, **McKim & Creed's report will include recommendations to help continually and proactively reduce the Utility's water loss in years to come.**

McKim & Creed will assist with the future analysis for additional leak detection investigations or other services that would be beneficial for the client in the interest of reducing their NRW and to achieve the best ROI going forward.

📍 DAILY/ WEEKLY REPORTS

As standard, leaks will be reported on a daily/weekly basis (**unless immediate action is required, then they are reported ASAP**) and submitted in our customized Leak Card format. Leak Cards will contain all the supporting information about the leak characteristics and marked location. This information includes:

- » The address or location
- » The urgency of the leak
- » The surface material around the leak location
- » The type of leak
- » Pipe material and size
- » The methodology employed to identify and verify the leak
- » To whom the leak was reported
- » A notification if visible water is present
- » The decibel of the noise the leak is producing on the closest asset
- » The estimated size of the leak (based on noise intensity, size of pipe, pressure and any visual evidence)
- » A description of the leak along with how it was found



2026 SCOPE OF SERVICES

McKim & Creed is pleased to provide District Metered Area (DMA) support services for the City of Joliet's Non-Revenue Water (NRW) Program. This scope includes deployment, operation, and support of twenty (20) monitoring locations identified in **Table 7.2**, providing reliable flow and pressure data to support system monitoring, NRW analysis, and operational decision-making.

DAAS MONITORING (20 SITES)

- » McKim & Creed will provide 20 Data as a Service (DaaS) monitoring sites for the 20 locations outlined in Table 7.2. Each DaaS site will include:
 - One (1) insertion flow meter
 - One (1) pressure sensor
 - One (1) data logger
 - All required appurtenances and equipment necessary for installation and operation
 - Ownership, Maintenance, and Calibration
- » Each DaaS site will be owned and maintained by McKim & Creed for the duration of the program. This includes:
 - Routine maintenance and troubleshooting
 - Product replacement as needed

- Meter calibration as required to ensure data accuracy and continuity
- Ad hoc site servicing required to maintain operational performance
- Data Communications, Operating Costs, and Data Access

- » McKim & Creed will be responsible for all ongoing costs required to support data transmission, continuity of monitoring, and delivery of datasets, including:
 - » All data vendor / cellular data charges
 - » Other ad hoc expenses required for operations, including but not limited to:
 - Battery replacement
 - Minor field consumables and related equipment needs
- » All data captured at the DaaS monitoring sites will be made available to the City through agreed delivery methods, including:
 - API access, and/or
 - SFTP push delivery of datasets

Table 7.2 | Monitoring Locations

Site ID	Zone(s)	Chamber ID	Cross Streets	Jurisdiction / ROW	Main Size (in)	Main Material	Estimated Depth to Top of Pipe (ft)	Surface Material	Proposed Chamber Lid Type	Estimated Extent of Existing Utilities in Proximity	Insertion Meter Size	Data Logger Source
1	55W-1, 2	55W1	Caton Farm Rd between Michas Dr and River Run Ln	City	12	PVC	6	Asphalt	Metal, traffic rated	Low	500	Wavlet
2	55W-1, 2	55W2	Arbor Gate Dr between Arbor Gate Ct and Arbor Falls Dr	City	12	Ductile Iron	3.5	Grass	Composite, locking	Low	500	Wavlet
3	55W-1, 2	55W3	Drauden Rd between Cedar Pointe Dr and Arbor Gate Dr	City	12	Ductile Iron	5.5	Grass	Composite, locking	Low	500	Wavlet
4	55W-1, 2	55W4	Theodore St at Caton Ridge Dr	City	16	Ductile Iron	6	Grass	Composite, locking	Mid	500	Wavlet
5	55E-1, 2	55E1	Covered Bridge Way between Theodore St	City	10	Ductile Iron	10	Grass	Composite, locking	Low	300	Wavlet
6	55E-1, 2	55E2	Ingalls Ave between Essington Rd and Murphy Dr	City	16	Ductile Iron	8	Grass/Concrete	Composite, locking	High	500	Wavlet
7	55E-1, 2	55E3	Essington Rd just south of Ingalls Ave	City	12	Ductile Iron	7.5	Grass/Concrete	Composite, locking	Low	500	Multilog
8	55E-1, 2	55E4	Black Rd between Rookery Ln and Westridge Rd	City	12	Ductile Iron	4	Grass	Composite, locking	Low	500	Multilog
9	55E-1, 2	55E5	W Jefferson St between Houbolt Dr and Essington Rd	IDOT	12	Cast Iron	8	Grass	Composite, locking	Low	500	Multilog
10	55E-1, 2	55E6	S Mission Blvd just south of McDonough St	City	10	Ductile Iron	5	Grass	Composite, locking	Low	300	Multilog
11	55E-1, 2	55E7	Clearview Dr	n/a	10	Ductile Iron	8	Grass	Composite, locking	Low	500	Multilog
12	55E-3, 2	55E8	Mound Rd west of Houbolt Rd	City	12	Ductile Iron	6	Grass	Composite, locking	Low	500	Multilog
13	55E-3, 2	55E9	South of Mound Rd on Houbolt Rd	City	16	Unknown	9.5	Grass	Composite, locking	Low	500	Multilog
14	Low-1, 2	L1	Jackson St east of State St	City	20	Cast Iron	4.5	Asphalt	Metal, traffic rated	Mid	700	RU32
15	Low-1, 2	L2	E Cass St between Scott St and N Michigan St	IDOT	10	Ductile Iron	4.5	Asphalt/Concrete	Metal, traffic rated	Low	300	RU32
16	Low-1, 2	L3	Eastern Ave between E Jefferson St and E Van Buren St	City	8	Cast Iron	5.5	Asphalt/Concrete	Metal, traffic rated	Low	300	RU32
17	Low-1, 2	L4	Collins St South of E Van Buren St N of 12" tee	IDOT	12	Ductile Iron	4.5	Asphalt/Concrete	Metal, traffic rated	Low	300	RU32
18	Low-1, 2	L5	Washington St east of Henderson Ave	City	12	Cast Iron	5.7	Grass/Gravel	Composite, locking	Low	300	RU32
19	SE-1, 2	SE1	S Chicago St at E Laraway Rd	IDOT	12	Ductile Iron	6.5	Grass	Composite, locking	Mid	300	RU32
20	SE-1, 2	SE2	Schweitzer Rd between S Chicago St and West Rd	n/a	16	Ductile Iron	5.5	Grass	Composite, locking	Low	500	RU32
Total 300s												7
Total 500s												12
Total 700s												1
Total Data Site / Data Loggers												20

REPORTING AND BILLING

McKim & Creed will provide monthly reporting to document deployed assets and monitoring performance, including:

- » Monthly system inventory of deployed equipment by site
- » Monthly data availability reporting, including identification of downtime periods by location
- » Monthly invoicing will be based on verified site performance:
 - McKim & Creed will only invoice for sites with greater than 90% call-in during the month.

If a site reports 90% or less call-in for the month, McKim & Creed will not invoice for that site for that billing period.

Table 7.3 | Scope of Services Pricing

Service/Product	Count	Tiers of Service		
DAAS Meter	20	\$700	\$8,400/month	\$168,000/year

All pricing is based on a minimum field inventory of 20 sites.

DATA OWNERSHIP

All data collected under this scope—including raw and processed datasets, telemetry records, and reporting outputs—shall be considered the property of the City of Joliet.

EXPENSES:

Traffic control services, when required, will be provided as a reimbursable expense and invoiced at direct cost plus fifteen percent (15%). Alternatively, should the Utility choose to furnish traffic control services using its own resources or contractor, McKim & Creed will accommodate and coordinate with the Utility, and traffic control costs will not be included in reimbursable expenses.

ACCEPTANCE:

If acceptable, sign and return one (1) copy of this document and all attachments for our files. Our receipt of the executed copy of this proposal will serve as our Notice to Proceed. This proposal is valid for thirty (30) days from the date of the proposal. If the proposal is not accepted within thirty (30) days, we reserve the right to revise or withdraw the proposal entirely at our discretion.

We look forward to working with you on this project and appreciate this opportunity to serve your GIS needs. If you have any questions or need additional information, please feel free to call us.

Sincerely,

Robert Eisenrich
GIS & DaaS Manager

McKim & Creed Proposal Number: 255743

McKim & Creed, Inc.

I hereby authorize McKim & Creed, Inc. to proceed with the work described above.

City of Joliet

By: _____ Date: _____

(Print or Type Name)

Title: _____

(Signature)

8 Professional References

McKim & Creed's client references showcase the team's design expertise and experience. These references and projects were chosen for their relevance to similar ongoing services or utility projects. Each project includes client contact information for further inquiries about our experience and client relationships. Our key project manager and team members bring extensive experience, ensuring the most qualified team to deliver cost-effective, practical solutions for City of Joliet. Below are references for local clients where we have performed similar utility services or diverse work orders under general engineering contracts.

CLIENT	CONTACT	SIMILAR PROJECTS
	<p>KNOXVILLE UTILITIES BOARD Eric Frederick Water Systems Engineer 4505 Middlebrook Pike, Knoxville, KY 37921 Eric.Frederick@kub.org</p>	<ul style="list-style-type: none"> ✔ Leak Detection Survey ✔ Find It/Fix It Program ✔ Equipment Purchase ✔ District Metered Areas ✔ Installation, Maintenance, Analytics ✔ Professional Services Agreement ✔ GIS Mapping
	<p>HALLSDALE-POWELL UTILITY DISTRICT Cody Humphrey Manager Of Distribution & Collections 3745 Cunningham Rd, Knoxville, TN 37918 chumphrey@hpud.org</p>	<ul style="list-style-type: none"> ✔ Leak Detection Survey ✔ Equipment Purchase ✔ District Metered Areas ✔ Installation, Maintenance, Analytics ✔ GIS Mapping
	<p>VILLAGE OF SKOKIE Jeff Scholpp 5127 Oakton Street, Skokie, IL 60077 Jeff.Scholpp@skokie.org</p>	<ul style="list-style-type: none"> ✔ Leak Detection Survey ✔ Equipment Purchase ✔ District Metered Areas ✔ Installation, Maintenance, Analytics ✔ GIS Mapping
	<p>CITY OF MIRAMAR Junior Francis Field Operations Manager 2300 Civic Center Place, Miramar, FL 33025 jafrancis@ci.miramar.fl.us</p>	<ul style="list-style-type: none"> ✔ Leak Detection Survey ✔ Equipment Purchase ✔ District Metered Areas ✔ Installation, Maintenance, Analytics ✔ GIS Mapping
	<p>THE CITY OF ASHEVILLE, NC Brandon Buckner Project Manager P.O. Box 7148, Asheville, NC 28802 bbuckner@ashevillenc.gov</p>	<ul style="list-style-type: none"> ✔ District Metered Areas ✔ Installation, Maintenance, Analytics
	<p>CITY OF GULF BREEZE Zachary Lewis Utility Manager 1070 Shoreline Drive, Gulf Breeze, FL 32561 zlewis@gulfbreezefl.gov</p>	<ul style="list-style-type: none"> ✔ Leak Detection Survey ✔ Equipment Purchase ✔ GIS Mapping ✔ Pipe Replacement Program ✔ District Metered Areas ✔ Installation, Maintenance, Analytics



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