



*City of Arts & Innovation*

# City Council Memorandum

**TO: HONORABLE MAYOR AND CITY COUNCIL** **DATE: MAY 24, 2022**

**FROM: PUBLIC WORKS DEPARTMENT** **WARDS: ALL**

**SUBJECT: PURCHASE ONE ROVVER X PIPELINE INSPECTION CAMERA SYSTEM WITH PORTABLE OUTPOST ENCLOSURE WITH ACCESSORIES FROM HAAKER EQUIPMENT COMPANY OF LA VERNE, CALIFORNIA, FOR THE PUBLIC WORKS ENGINEERING DIVISION-ENVIRONMENTAL SERVICES SECTION IN THE AMOUNT OF \$121,336.35**

## **ISSUE:**

Approve the purchase of one Rovver X pipeline inspection camera system with Portable Outpost Enclosure with accessories from Haaker Equipment Company of La Verne, California, for the Public Works Engineering Division – Environmental Services Section in the amount of \$121,336.35 using Section 602(f) of Purchasing Resolution 23812.

## **RECOMMENDATION:**

That the City Council approve the purchase of one Rovver X pipeline inspection camera system with Portable Outpost Enclosure with accessories from Haaker Equipment Company of La Verne, California, for the Public Works Engineering Division – Environmental Services Section in the amount of \$121,336.35.

## **BACKGROUND:**

The Public Works Engineering Division – Environmental Services Section is responsible for the maintenance and overall care of storm drain catch basins and pipelines that make up the storm drain system throughout the City of Riverside (City). The City has over 5,000 catch basins and 190 miles of pipes that must be maintained on a routine basis. This is part of a broader stormwater program required by the State Water Board.

While there are only about 30 days of rainfall in the area each year, urban runoff enters the storm drain system every day due to irrigation, washing, potable water flushing, etc. This runoff carries with it a variety of debris and pollutants both seen and unseen. Some of these are contained within City catch basins and pipes which are routinely cleaned by storm drain maintenance crews. Along with debris and pollutants, natural occurrences can disrupt the storm drain system's ability to function. For example, intrusive tree roots commonly cause blockages and over time can compromise the storm drain infrastructure and impede on its ability to function properly. Over time, heavy traffic and commonly used routes can also impact the integrity of the storm drain system.

## **DISCUSSION:**

The Environmental Services Section has a push camera that can inspect pipes of 2 inches or greater diameter. This camera is best used for smaller pipes that do not contain a large amount of water. The push camera cannot be used to capture full images in larger pipes because the camera sits on the bottom of the pipe and moderate amounts of water within these lines will submerge it. Thus, the Environmental Services section requires a larger, more sophisticated camera that can be used to inspect large pipes.

The proposed purchase of a Rovver inspection camera is essential in accurately assessing the condition of the pipes and pinpointing blockages, cracks, or pipe damage. Without a pipeline inspection camera, clearing blockages become increasingly difficult as staff cannot assess the problem or extent of the concern. Video inspection would facilitate cleaning operations and reduce the damage to storm drainpipes and other storm drain maintenance equipment as staff would receive visual cues once the work has been completed. This camera system will allow the operator to identify the problem which will in turn provide the opportunity to properly diagnose the issue. This camera is crucial to not only maintaining the storm drain system, but in preventing pipeline failures, pipe damage, and costly emergencies.

The proposed purchase includes a high-resolution camera with the ability to digitally zoom 12x, giving the operator the ability to zoom in on an area that may be inaccessible. The Rovver X can complete a 135 degree tilt and has a 360 degree rotation capability, which is operated by a wireless remote control. In addition to the camera, the proposed purchase includes a crawler and an automatic cable reel. The crawler is a high-performance motor with various wheel attachments, allowing the camera to move through the pipe. This is imperative when the crew encounters pipes that have shifted resulting in an offset or if an obstruction is present. It is also helpful to inspect pipes with standing water as the camera can be raised above the water. This purchase includes the Portable Outpost Enclosure which is a weatherproof transport enclosure that protects and organizes all of the inspection equipment. This portion of the purchase is vital in keeping the equipment in good condition.

Sourcwell is a national service cooperative created to provide government procurement resources and solutions to members in government, education and nonprofit sectors. The Sourcwell contract was procured through an RFP process in late 2021 aimed at providing competitive pricing for all cooperating government agencies across the nation rather than an individual agency conducting a procurement for its own individual purchases. 13 proposals were submitted and EnviroSight was awarded for products for inspection and repair of sewer and stormwater infrastructure based on compatibility of products with multiple brands as well as for their discounts across their entire product offering. The distributor network of EnviroSight is where individual Purchase Orders are issued for products and Haaker is the EnviroSight distributor in the area of Riverside, CA.

Purchasing Resolution No. 23812, Section 602 (f) provides for an exception to competitive procurement "When Cooperative Purchasing is available and undertaken or when goods can be obtained through Federal, State and/or other public entity pricing contracts or price agreements."

The Purchasing Manager concurs that the recommendation to approve is in compliance with Purchasing Resolution 23812.

## **STRATEGIC PLAN ALIGNMENT:**

The program described in this report aligns with **Strategic Priority 4 – Environmental Stewardship** and **Strategic Priority 6 – Infrastructure, Mobility and Connectivity**. It also supports **goal 4.2** - Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable and affordable water to our community and **goal 6.2** - Maintain, protect and improve assets and infrastructure within the City's built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

Furthermore, storm drain maintenance aligns with each of the five Cross-Cutting Threads:

1. **Community Trust** – Maintaining the storm drain system serves the public interest and supports clean water in the community and proper flow of water during significant rain events.
2. **Equity** – This program supports clean water throughout the City ensuring that all residents can enjoy the beneficial uses of local waterways. The proposed camera will allow operators to accurately diagnose problems and will be an aid in preventative maintenance. This is key in preventing pollutants, trash, and debris from making its way to our local waterways.
3. **Fiscal Responsibility** – Provides a quality public service to all residents in a fiscally responsible way. The lifespan of our storm drain infrastructure can be extended through proper storm drain maintenance practices. Expanding the lifespan of the infrastructure will prevent the need for emergency work, which on average is much more costly than providing quality maintenance. The proposed camera technology will allow for collaboration with the construction and engineering teams in the department. If staff is aware of a project underway in an area where we have determined repairs are needed, the pipeline repairs can be performed concurrently to avoid the need for repeated work/construction.
4. **Innovation** – The proposed purchase will provide the storm drain maintenance team with up-to-date technology that will improve the department's ability to maintain the storm drain system in a timely manner.
5. **Sustainability & Resiliency** – Proper maintenance of the storm drain system contributes to the sustainability of the City's and region's local waterways. The proposed purchase will increase efficiency in diagnosing storm drain system problems, thus making a more sustainable City by avoiding repeat work and emergency work.

## **FISCAL IMPACT:**

The total fiscal impact of the action is \$121,336.35. Sufficient funds are available in the NPDES Storm Drain Fund, NPDES Inspection and Monitoring account number 4140200-450371.

Prepared by: Gilbert Hernandez, Public Works Director  
Certified as to  
availability of funds: Edward Enriquez, Interim Assistant City Manager/Chief Financial Officer/Treasurer  
Approved by: Kris Martinez, Assistant City Manager  
Approved as to form: Phaedra A. Norton, City Attorney

Attachments:

1. Sourcewell Quote from Haaker Equipment Company
2. Sourcewell Contract RFP #120721