A U S T I N C I T Y C O U N C I L

AGENDA

# Recommendation for Council Action (Purchasing)

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| Austin City Council | **Item ID:** | 66682 | **Agenda Number** | 22. |

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| **Meeting Date:** | February 2, 2017 |
| **Department:** | Purchasing |

## Subject

Authorize negotiation and execution of a three-month contract with HYDROMAX USA LLC, to provide the Utilis satellite leak detection program subscription in an estimated amount of $99,000, with one three-month extension option in an estimated amount of $99,000, for a total contract amount not to exceed $198,000.

## Amount and Source of Funding

Funding is available in the Fiscal Year 2016-2017 Operating Budget of Austin Water.

## Fiscal Note

A fiscal note is not required.

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| **Purchasing Language:** | Sole Source |
| **Prior Council Action:** | |
| **For More Information:** | Gil Zilkha, Contract Administrator, 512-974-2696 |
| **Boards and Commission Action:** | January 11, 2017- Recommended by the Water and Wastewater Commission on a 7-0 vote with Commissioner Lee abstained and Commissioner's Ho, Kellough and Parker absent. |
| **Related Items:** | |
| **MBE / WBE:** | This contract is exempt from the City Code Chapter 2-9C Minority Owned and Women Owned Business Enterprise Procurement Program; therefore, no subcontracting goals were established. |

## Additional Backup Information

Austin Water (AW) has been performing leak detection on its distribution system for many years in an effort to minimize water loss through leaks, and the department continues to evaluate new technologies that will assist in an effort to reduce the number of leaks and minimize the volume of unaccounted for water lost from its system. This new satellite technology is based on the analysis of spectral aerial-images acquired from commercially available satellite mounted radar that captures a large area in a single frame. The satellite spectral analysis uses remote sensing of subterranean water leakage based on a proprietary algorithm that detects underground leaks through the analysis of micro spectral satellite imagery. Thousands of square miles of water distribution network can be assessed at one time, with the ability to pinpoint a leak within a few meter radius. As compared to traditional acoustic surveying of the distribution system designed to identify points for further correlation, no field work is required to achieve this level of information.

Once leaks are identified from the satellite image process, the data will be corroborated through in-field correlation activities by Hydromax and AW staff to evaluate the effectiveness of the program.

AW has over 3,700 miles of distribution and transmission lines with an estimated water loss of 6 billion gallons just last year. The department currently has leak detection equipment, all of which requires a significant amount of field work by staff to identify leaks. This pilot program will determine if this satellite process can quickly identify leaks within its service area that have not previously been identified, reduce the cost and manpower spent on leak detection, thereby reducing the annual unaccounted water loss.

No other vendor has the technology to provide satellite imagery to identify underground water leaks.

| **HYDROMAX USA LLC** | | | | |
|---|---|---|---|---|
| | **# months** | **Contract Amount** | **Contract Amendment** | **Revised Amount** |
| Original Term | 3 | $ 99,000 | n/a | n/a |
| Extension Option 1 | 3 | $ 99,000 | n/a | n/a |
| **TOTAL** | **6** | **$ 198,000** | **$ -** | **$ -** |