

Per Administrative Order 3-3, the Water Division, under the Department of Public Utilities, wishes to purchase a product over the formal bid limit from a "sole source" without competitive bidding. The following statements and findings concerning the procurement of the **Neutral Output Discharge Elimination System** (NO-DES) Patented (US Patent # 6,627,089 B1) water main flushing system will be made and set forth in this sole-source resolution.

1) Statement describing every unique or specialized feature of the product in question.

Key benefits include saving money, conserving water by returning potable water back into the system, eliminating National Pollutant Discharge Elimination System (NPDES) fees, and preventing damage common to conventional water main flushing.

- Eliminates most of the water waste associated with conventional flushing.
- Removes particulates, bio-film, iron, and manganese.
- Elimination of NPDES related fees and fines.
- No property damage or clean-up costs, due to flooding.
- Allows flushing of mains after main repairs to avoid contamination.
- Controlled flow and reduced damage to distribution system – no water hammer, pipe/lining erosion.
- Lowered labor costs due to smaller crew and reduced set-up time.
- De-chlorination not required.
- Seen as an environmentally friendly initiative.

2) Statement of why the department requires the product in question has such unique or specialized features (i.e., a statement of why a product without such features would not meet the department's needs).

In comparison to the NO-DES water main flushing system, there are other flushing systems on the market that have similar features. However, as demonstrated in the attached matrix, the comparable systems do not meet the needs of the Water Division or the community. These systems are only designed to remove debris and sediment build-up inside pipes. The NO-DES unit is designed to remove sediment, as well as filter and chlorinate the water. Further, many of these systems use open fire hydrant flushing where water is flushed through a hydrant outlet and into gutters. This practice results in the loss of stored water, increased customer complaints, and an increased risk of property damage due to flooding and water hammer (water main break). The Water Division endeavors to maintain a good public perception of "water conservation," and this NO-DES unit will help achieve this goal. The NO-DES system is unique in its ability to flush lines and return potable water back into the system with minimal loss. This unit will save 133 million gallons of water annually that would otherwise be lost to traditional open hydrant flushing.

- 3) Description of the department's efforts to locate all possible suppliers of such product.

Through extensive internet research and reaching out to industry leaders listed below, both the Water Division and the Fleet Division have determined the NO-DES patented water main flushing system is only available through the manufacture.

Industry leaders contacted:

David Eugene Kimbrough, Ph.D. - Water Quality Manager, Pasadena Water & Power

Francois Rodigari - Director of Water Quality and Environmental Services, San Jose Water Company

Carlos Castro - Water Quality Supervisor, Town of Hillsborough

- 4) Statement that, in spite of its efforts, the division has been able to locate only one supplier of the product in question.

In spite of our efforts, the Fleet Division and the Water Division have been able to locate only one supplier of the product in question. NO-DES, Inc., is the sole source manufacturer of this product.

- 5) Statement that indicates the ultimate cost of the product and the process used to determine the cost of the product.

The ultimate cost of the NO-DES water main flushing system and truck is \$448,023.90. The process used to determine the final cost consists of adding the price of the system = \$327,188.90; the truck (a new 2017/2018 Freightliner, standard Cab model with a 20-ft. metal flatbed) = \$72,750.00; the training cost = \$7,850.00; tax = \$33,090.00; and delivery = \$7,100.00.

- 6) A finding that it is, therefore, proper for the City to dispense with the competitive bidding requirement in this instance and to authorize the Purchasing Manager to purchase the product in question under the sole source exception.

This resolution finds proper for the City to suspend the competitive bidding requirement in this instance and to authorize the purchasing ,anager to purchase the NO-DES

patented water main flushing system and accompanying chassis under the sole source exception.

City of Fresno Comparison Chart

Department/Division: Department of Public Utilities/Water Division

Product description: NO-DES Patented Water Main Flushing System

Features	Vac-Con X-Cavator	Hydro-Guard® Automatic Flushing System	No DES Truck
Removes iron and manganese and return filtered and disinfected water back into the system.	No	No	Yes
Conserves two vital natural resources - water and the energy it took to produce and pump it	No	Yes	Yes
Hydrant flushing to provide high quality, clear drinking water to our community	No	No	Yes
Dismisses public opinion of wasting water when clearing lines	No	Yes	Yes
Total Cost	\$375,000.00	\$2,492.33 per Hydrant 13,268 Hydrants = \$33,068,000 total	\$448,023.90