

CITY OF VINELAND
DEPARTMENTAL REQUEST FOR PUBLIC BIDDING



1. NATURE OF REQUEST: Hydrated Lime for Water Treatment

2. ENGINEER'S ESTIMATE: \$ 34,000.00
(If Engineer's Estimate has been prepared by anyone other than the person signing this form, please attach a copy of said Engineer's Estimate.)

3. AMOUNT BUDGETED FOR THIS REQUESTED ITEM: \$ 120,000 (all chemicals)

4. BUDGETED ITEM: YES NO
(If no, is it an ordinance authorized material, service or supply?)

YES NO ORDINANCE NO.: _____

(B) Please identify the page number and line item appropriation sub-account:

Budget Page No. W3 Account No. 003-0-43-80-8002-2-5023030

5. Check here if:

Federal Funds State Funds

UEZ Funds Davis Bacon Requirements

(If any of the above are checked, the project must be monitored by the department for compliance with prevailing wage rate policy and procedures.)

6. Date to be Advertised: August 8, 2017

7. Date to be Received: September 12, 2017

8. Date to be Awarded: October 10, 2017

9. Special Conditions or Instructions: One year contract with second year option
Lime to be purchased as needed for water treatment (Supplement)

10. The following must be attached:

Summary of Project

Specifications

Plans (if applicable)

Bidders Mailing List (with emails of the vendor)

11. Specifications Prepared by: Bill Kennedy, Asst. Superintendent x 4757 WSK.
(NAME, TITLE AND EXTENSION NUMBER)

12. Approved by: [Signature] 7-18-17
SIGNATURE (DIRECTOR, DEPARTMENT HEAD, SUPERVISOR)

Send copies to:
Purchasing Department
Business Administration

**Water Utility Specifications for
Hydrated Lime for Water Treatment**

The specification is intended to cover Hydrated Lime used for Water Treatment required by the Water Utility of the City of Vineland for a period of one year from date of award, with an option for a second year.

Hydrated Lime

General: These specifications cover Hydrated Lime (Fine Sized) to be used in the treatment process of Municipal Water Supplies. Chemical name Calcium Hydroxide Ca(OH)₂. Bidder shall submit (SDS) Safety Data Sheet with bid package.

Chemical Requirement: The minimum for Calcium Oxide (CaO) 70%

The Lime shall conform to: **Standard NSF 60** which covers corrosion and scale control chemicals; PH adjustment, softening, precipitation, and sequestering chemicals; coagulation and flocculation chemicals; well-drilling products; disinfection and oxidation chemicals; and miscellaneous and specialty chemicals for the treatment of drinking water.

The Lime shall also conform to the **AWWA Standard B202-02 (Hydrated Lime)**. **AWWA B202-02 Section 4.1.1.2** "Hydrated Lime provided in a dry form shall be white, finely powdered, and free from lumps or any foreign material that might interfere with the operation of dry-feed equipment. Uniformity of particle size is desirable."

AWWA B202-02 Section 4.3.1 Impurities "Hydrated Lime supplied in accordance with this standard shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming a water that has been treated properly with the lime products."

<u>Typical Properties Chemical for Reference</u>	<u>Average %</u>
Calcium Hydroxide Ca(OH) ₂	92%
Available CaO	70%
Calcium Oxide (CaO)	71%
Magnesium Oxide (MgO)	1% or less
Silica (SiO ₂)	1% or less
Ferric Oxide (Fe ₂ O ₃)	0.06% or less
Free Moisture	1% or less
<u>Typical Properties Physical for Reference</u>	<u>Average %</u>
Size (at point of loading)	
Passing 60 mesh	100%
Passing 100 mesh	98%
Passing 200 mesh	94%