# Request for Information "RFI" Summary

**Las Virgenes Municipal Water District**
**Request for Bids**
**Sodium Hypochlorite**

The Request for Information period for the District's "Sodium Hypochlorite" Request for Bids is now closed. Five RFI were received and 1 addendum(s) were issued and posted on the District's website, http://www.lvmwd.com/i-want-to/do-business-with-lvmwd/non-public-works-formal-bids. Per the Instructions to Bidders, other than directing a bidder to a specific segment of the bid documents, questions received after the RFI period has ended will not be answered. Below is a summary of all RFI received and the District's responses.

**Q1.** The concentration range is listed as an approximate, is 12.5% the minimum?

**A1.** Product must be within the stated concentration range. Addendum pending.

**Q2.** Is a PH value of >11 acceptable?

**A2.** No. 14 PH is required for intended application, PH value must be 14.

**Q3.** Should the specific gravity specification be removed or changed to approximately 1.19 at 20°C? Specific gravity is report only and should be used as a means to determine % concentration of solution. As outlined in the Chlorine Institute Pamphlet; Sodium Hypochlorite Manual, "This measured property will vary depending on the specific chemical composition of the product and may have no relationship to the product quality. Since specific gravity is not an indication of sodium hypochlorite quality or strength it should not be specified in product quality requirements."

**A3.** No. If product concentration falls within the stated range, the SG should be 1.206 at 20 C.

**Clarification:** Per Bid Scope & Specifications--General Information Section the product will be used "for the treatment of potable water"; as such, product must meet NSF 60 certification to comply with "Additional Conditions Section 9. Regulatory Guidelines."

**Q4.** Would you please provide incumbent supplier (a), as well as current pricing (b) for Sodium Hypochlorite?

**A4 (a).** $ .57 per gal ($.582 including 1.2% mil tax)

**A4 (b).** Jones Chemicals, Inc.

**Q5.** As stated in the response from the District on Monday, 06/29, (Q&A 1-3) only if the % of sodium hypochlorite falls within the ranges as specified in the bid document should it come close to the specific gravity as mentioned. It should be noted however that the actual % as NaCl (Sodium Chloride) and other constituents does vary which will affect the specific gravity. However the most critical element is the % of active ingredient in Sodium Hypochlorite solutions, minimum of 12.5 wt.%. In addition, as previously stated, excessive Sodium Hydroxide added will affect the specific gravity of solutions as well.

As for pH in solutions, it's uncertain as to what levels Caustic is present in current Hypochlorite solutions that would offer the absolute maximum that is found on the pH scale of 14. It's assumed that in order to obtain a true 14 pH, the % of Sodium Hydroxide (NaOH) would fall around 4.0%. As independent industry documentation support, information from the Chlorine Institutes Pamphlet # 96, The Sodium Hypochlorite Manual, as well as information from AWWA B300-10. If pH must be listed in the specification it should be amended to be in a range of >11 to 14. It is for the sole purpose of assisting Las Virgenes and representing our industry that we request this specification be amended.

**A5.** District staff fully reviewed and considered this request. The District will not be issuing any further addendums to the bid specifications.