



# QUARTZ HILL WATER DISTRICT

5034 W Avenue L • Quartz Hill, CA 93536  
661-943-3170 • www.qhwd.org

June 16, 2016

## SELF-CERTIFICATION

Board of Directors  
5034 West Avenue L  
Quartz Hill CA 93536

Subject: Quartz Hill Water District Self-Certification numbers and Fact Sheet

Dear Board of Directors

The Quartz Hill Water District (District) is currently involved in self-certifying per the requirements outlined by the California State Water Resource Control Board (Water Board) Technical Fact Sheet issued on May 18. The Water Board outlined or detailed the process for Urban Water Districts to self-certify, per the requirements the following table/fact sheet shows District's current three year projections. I have also attached the email from Tom Barnes Resource Manager for Antelope Valley East Kern Agency (AVEK) who is the District's wholesaler. The supporting documents are attached as an exhibit to detail how the data was derived and increase the districts transparency for the process. The following data was used to derive the customer demand figures, daily pumping logs from 2013 and 2014 and monthly meter reads from AVEK for the calendar year of 2013 and 2014, and have been summarized in the table below.

## Quartz Hill Water District Fact Sheet

### Calculation's of Urban Water Supplier's Standard Supply Reliability for Three Additional Years of Drought

#### Step 1: Determine Total Potable Water Demand (Used in Step 3)

|   |         |
|---|---------|
| Potable Water Production in Calendar year 2013 (acft) | 5801.62 |
| Potable Water Production in Calendar year 2014 (acft) | 5254.32 |
| Total Potable Water Demand (acft)                     | 5527.97 |

### Supply

#### Calculate Total Potable Water Supply (acft)

| Potable Water Supply           | Year 1 | Year2 | Year 3 |
|--------------------------------|--------|-------|--------|
| Imported Water                 | 3918   | 3918  | 3918   |
| Groundwater                    | 2151   | 2120  | 1546   |
| Water Bank (3550 Acft in Bank) |        |       | 65     |
| Total Potable Water Supply     | 6069   | 6038  | 5529   |

#### Conservation Standard (acft)

|   |         |
|---|---------|
| Total Potable Water Demand (From Step 1)                            | 5527.97 |
| Total Potable Water Supply in Year 3 (Step 2)                       | 5528.86 |
| Supply Shortfall in Year 3  | -0.89   |
| Conservation Standard with Self-Certification of Supply Reliability | 0%      |

Thank you for your involvement with regard to the District's self-certification process. Should you have any questions or concerns, please feel free to contact me at (661)943-3170 or [CREED@QHWD.ORG](mailto:CREED@QHWD.ORG).

Sincerely,

*Chad J. Reed*

Chad J. Reed  
General Manager

**Antelope Valley East Kern  
Self Certifying documents**

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General Manager  
NORMAN H. HARRIS  
Secretary-Treasurer



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June 15, 2016

To: AVEK Water Agency Urban Water Retail Customers  
Re: Wholesaler Supply Information - May 2016 Emergency Regulations

The Antelope Valley-East Kern Water Agency (AVEK), in complying with the May 2016 Emergency Regulations of the State Water Resources Control Board (Water Board), has approved the attached table for distribution to our urban water retail customers and for posting on the Agency's website.

AVEK, as an urban water wholesaler, is to provide information on the volume of water they expect to deliver to each urban water supplier in each of the next three years using the assumptions in the Water Board's May regulation. The provided table entitled: *Future 3-Yr Drought Water Supply/Demand Projections* includes the projected supply vs. demand calculations for the Agency for water years 2017 through 2019. Also provided is a list of AVEK customers and their corresponding supply projections, assuming:

- Same hydrologic conditions of water year 2013 occur in water year 2017,
- Same hydrologic conditions of water year 2014 occur in water year 2018,
- Same hydrologic conditions of water year 2015 occur in water year 2019, and
- No temporary change orders that increase the availability of water to any urban water supplier are issued in the next three years.

For further information, please visit the below websites:

- May 2016 Emergency Regulation and supporting documents (including the online form that urban water retailers will use, when available):  
[http://www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/emergency\\_regulation.shtml](http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/emergency_regulation.shtml)
- Frequently Asked Questions:  
[http://www.waterboards.ca.gov/water\\_issues/programs/conservation\\_portal/faq.shtml](http://www.waterboards.ca.gov/water_issues/programs/conservation_portal/faq.shtml)

If you have any further questions, feel free to contact our office at: 661-943-3201.

Sincerely,

Tom Barnes  
Resources Manager

ENCL: Table *Future 3-Yr Drought Water Supply/Demand Projections*

6500 WEST AVENUE N • PALMDALE, CALIFORNIA 93551  
(661) 943-3201 • FAX (661) 943-3204

| AVEK Water Agency - Future 3-Yr Drought Water Supply/Demand Projections (Acre-Ft) |                |                |               |               |
|---|----------------|----------------|---------------|---------------|
| Total Water SUPPLY  | 2016           | 2017           | 2018          | 2019          |
| SWP % Annual Allocation (Table A)   | 10%            | 35%            | 5%            | 20%           |
| SWP Carry-Over Supply   | -              | 11,810         | 17,618        | -             |
| SWP Annual Allocation Supply  | 86,970         | 58,700         | 7,248         | 28,970        |
| Banked Water Supply   | 31,700         | 31,700         | 31,700        | 11,550        |
| Groundwater - Recoverable   | 4,000          | 7,935          | 11,865        | 15,610        |
| <b>Total:</b>   | <b>122,670</b> | <b>102,245</b> | <b>68,385</b> | <b>56,130</b> |
| Total Water DEMAND  |                |                |               |               |
| Customer Demands  | 45,000         | 45,000         | 45,000        | 45,000        |
| Escalating/Transfers  | 30,000         | -              | -             | -             |
| <b>Total:</b>   | <b>75,000</b>  | <b>45,000</b>  | <b>45,000</b> | <b>45,000</b> |
| SUPPLY / DEMAND   |                |                |               |               |
| Total Water SUPPLY  | 122,670        | 102,245        | 68,385        | 56,130        |
| Total Water DEMAND  | 75,000         | 45,000         | 45,000        | 45,000        |
| <b>Surplus (Shortage):</b>  | <b>47,670</b>  | <b>57,245</b>  | <b>23,385</b> | <b>11,130</b> |

AVEK Revised: 6/10/2018  
 Approved: 6/14/2018

| AVEK Water Agency - Customers 3-Yr Drought Water Supply Projections (Acre-Ft) |                                |                   |                        |
|---|--------------------------------|-------------------|------------------------|
| Customer Name   | Level of Treatment on Delivery | % of Total Supply | 2016-2018 Est Delivery |
| Boron CSD   | Drinking Water                 | 0.83%             | 239                    |
| City of California City   | Drinking Water                 | 2.15%             | 966                    |
| Desert Lakes CSD  | Drinking Water                 | 0.31%             | 140                    |
| Desert Sage Apartments  | Drinking Water                 | 0.02%             | 11                     |
| Edgemont Acres MWC  | Drinking Water                 | 0.44%             | 197                    |
| Edwards AFB   | Drinking Water                 | 4.20%             | 1,891                  |
| Granite Construction (Shell)  | Drinking Water                 | 0.00%             | -                      |
| Mojave Public Utility District  | Drinking Water                 | 0.01%             | 5                      |
| Rio Tinto Minerals (US Borax)   | Drinking Water                 | 3.77%             | 1,690                  |
| Rosamond CSD  | Drinking Water                 | 0.00%             | 2                      |
| Anislope Valley Country Club  | Drinking Water                 | 0.38%             | 158                    |
| California Water Service Co.  | Drinking Water                 | 0.36%             | 164                    |
| El Dorado MWC   | Drinking Water                 | 0.00%             | 2                      |
| Landale MWC   | Drinking Water                 | 0.11%             | 48                     |
| Los Angeles County WWD  | Drinking Water                 | 70.05%            | 31,522                 |
| Palm Ranch ID   | Drinking Water                 | 0.01%             | 6                      |
| Quartz Hill WD  | Drinking Water                 | 8.71%             | 3,918                  |
| Shadow Acres MWC  | Drinking Water                 | 0.47%             | 210                    |
| Sunnyside Farms MWC   | Drinking Water                 | 0.10%             | 84                     |
| Westside Park MWC   | Drinking Water                 | 0.00%             | -                      |
| White Fence Farms MWC   | Drinking Water                 | 0.51%             | 230                    |
| White Fence Farms MWC #3  | Drinking Water                 | 0.95%             | 427                    |
| Lake Elizabeth MWC  | Raw Water                      | 0.49%             | 219                    |
| Tejon Ranch Co.   | Raw Water                      | 0.00%             | -                      |
| Rancho Vista Development  | Raw Water                      | 1.41%             | 634                    |
| California Parks & Rec.   | Raw Water                      | 0.03%             | 14                     |
| Untreated water agricultural  | Raw Water                      | 0.43%             | 192                    |
| Treated water agricultural  | Drinking Water                 | 0.58%             | 260                    |
| Losses  | Raw Water                      | 3.94%             | 1,771                  |
|   |                                | <b>100%</b>       | <b>48,000</b>          |

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 Approved: 6/14/2018

**Quartz Hill Water District**  
Supporting Documents

|            | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    | OCT    | NOV    | DEC    | TOTALS  |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 2014       |        |        |        |        |        |        |        |        |        |        |        |        |         |
| Wells A.F. | 119.16 | 111.72 | 65.37  | 175.11 | 286.54 | 344.30 | 241.73 | 226.46 | 214.33 | 214.77 | 135.00 | 57.05  | 2091.5  |
| AVEK A.F.  | 109.45 | 157.82 | 260.42 | 217.59 | 230.05 | 511.06 | 454.77 | 383.71 | 282.15 | 228.68 | 211.83 | 114.44 | 3162.8  |
| Combinet   | 279.62 | 269.54 | 325.79 | 392.70 | 516.59 | 755.36 | 696.50 | 610.17 | 496.48 | 443.45 | 346.83 | 171.49 | 5254.32 |
| 2013       |        |        |        |        |        |        |        |        |        |        |        |        |         |
| Wells A.F. | 34.64  | 121.06 | 244.89 | 251.32 | 265.71 | 271.76 | 284.34 | 277.77 | 262.11 | 200.44 | 148.46 | 85.95  | 2449.7  |
| AVEK A.F.  | 182.17 | 86.69  | 133.01 | 231.07 | 301.91 | 613.5  | 446.18 | 528.72 | 360.85 | 265.22 | 182.41 | 118.24 | 3302.0  |
| Combinet   | 217.01 | 208.75 | 377.90 | 482.39 | 568.62 | 785.26 | 730.52 | 806.49 | 622.96 | 465.66 | 330.87 | 204.19 | 5801.82 |