District Staff has analyzed the data covering available supplies in the event that water years 2013 - 2015 were to repeat themselves during 2017-2019. Through this analysis it was determined that a conservation standard of 15% reduction, compared to water usage in 2013, would provide assurance of uninterrupted and cost effective water supply to the District’s customers should drought conditions worsen.
Certification of Self-Certified Conservation Standard Form

I hereby certify that: **Palmdale Water District**

1. I will oversee, review, and take full responsibility for the completeness and accuracy of all data submitted to the State Water Resources Control Board as part of the reporting required pursuant to California Code of Regulations, title 23, section 864.5, subdivisions (a)(3) and (h);

2. I have the authority to make the aforesaid certifications on behalf of **Palmdale Water District**

I acknowledge that submitting any information required by California Code of Regulations, title 23, section 864.5, including this certification, that I know or should know to be materially false is a violation punishable by civil liability of up to five hundred dollars ($500) for each day in which the violation occurs. Every day that the error goes uncorrected constitutes a separate violation. Civil liability for the violation is in addition to, and does not supersede or limit, any other remedies, civil or criminal.

<table>
<thead>
<tr>
<th>Printed Name</th>
<th>Jon Pernula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title (General Manager or equivalent)</td>
<td>Water and Energy Resource Director</td>
</tr>
<tr>
<td>Signature</td>
<td>[Signature]</td>
</tr>
<tr>
<td>Date</td>
<td>06/22/2016</td>
</tr>
<tr>
<td>Email Address</td>
<td><a href="mailto:JPernula@palmdalewater.org">JPernula@palmdalewater.org</a></td>
</tr>
<tr>
<td>Phone Number</td>
<td>(661) 947-4111 ext.1005</td>
</tr>
</tbody>
</table>

Please print, sign and submit completed form and upload the form to this weblink (see Step 5 of the online form): [http://drinc.ca.gov/dnn/applications/publicwatersystems/waterreliabilitycertification.aspx](http://drinc.ca.gov/dnn/applications/publicwatersystems/waterreliabilitycertification.aspx)
Worksheet 1: Total available water supply for individual water supplier

Step 2 of Water Supply Reliability Certification and Data Submission Form

| Palmdale Water District | << Enter name of urban water supplier |

User Input Instructions

(1) Please select units of measure from the dropdown menu.

(2) Enter information on available water supplies and supplies committed to other uses.

LEGEND:

User Input or Selection

Linked from User Input

<< Select units of measure

Available Water Supplies

<table>
<thead>
<tr>
<th>Sources of Supply</th>
<th>Name of Provider(s) or Description</th>
<th>Source used in prior years?</th>
<th>Water Available in</th>
<th>Wholesaler Information</th>
<th>Wholesaler Water System Number**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Wholesaler 1</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Wholesaler 2</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Wholesaler 3</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Wholesaler 4</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Wholesaler 5</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td><strong>SELF-SUPPLIED</strong></td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Water Recycling (potable)</td>
<td></td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
<td>Y/N</td>
</tr>
<tr>
<td>Surface water: SWP</td>
<td>SWP Table A</td>
<td>Y/N</td>
<td>44.0</td>
<td>1,009.0</td>
<td>4,260.0</td>
</tr>
<tr>
<td>Surface water: CVP</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water: Colorado River</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface water: other (describe)</td>
<td>SWP Table A Carryover</td>
<td>Y/N</td>
<td>4,500.0</td>
<td>7,411.0</td>
<td>56.0</td>
</tr>
<tr>
<td>Surface water: other (describe)</td>
<td>Little Rock Dam</td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Groundwater</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seawater Desalination</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfers</td>
<td>SWP Table A Lease Butte County</td>
<td>Y/N</td>
<td>3,952.0</td>
<td>65.0</td>
<td>1,300.0</td>
</tr>
<tr>
<td>Exchanges</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (describe):</td>
<td></td>
<td>Y/N</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SUBTOTAL of available supplies (in units selected)</strong></td>
<td></td>
<td></td>
<td>20,496.0</td>
<td>20,495.0</td>
<td>18,554.0</td>
</tr>
</tbody>
</table>

* Any carryover from one year is incorporated in the supply of the following year, as legally allowed.

** Look up Water system number at this link: https://sdwis.waterboards.ca.gov/PDWW/

Rows can be inserted to account for other sources of supply (e.g., desalination of brackish water, banked water)

① If a source has not been used in prior years, e.g., a new treatment facility will be constructed, supporting documentation must document when the new source will be fully implemented.

Water Supplies Committed to Other Uses (Not Available)

<table>
<thead>
<tr>
<th>Other Uses</th>
<th>Describe</th>
<th>Quantity in WY 2017</th>
<th>Quantity in WY 2018</th>
<th>Quantity in WY 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial, industrial or institutional</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New residential customers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SUBTOTAL of supplies not available (in units selected)</strong></td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

TOTAL available water supply (in units selected)

|          | 20,496 | 20,495 | 18,554 |

(Subtotal available supplies minus subtotal of supplies committed to other uses)

>>> Please enter values calculated below in Step 2 of the online form

TOTAL available water supply converted to acre feet

|          | 20,496 | 20,495 | 18,554 |

>> If error, verify you have selected units of measure
Palmdale Water District has a Table allotment of 21,300 Acre feet from the State Water Project. Water Years 2013, 2014, and 2015 had respective allotment percentages of 35%, 5% and 20%. PWD is opting not to project the 4000 acre feet of supply that will exist at the beginning of 2017 or the probable available water through SWP dry year exchanges and purchases. PWD will begin 2017 with 4,500 acre feet of available Table A carryover from the 2016 water year. The anticipated total available in this scenario is 17280 acre feet.

### Data-Historical Table A Allotment in acre feet

<table>
<thead>
<tr>
<th>Year</th>
<th>Allot %</th>
<th>Table A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>35%</td>
<td>7455</td>
</tr>
<tr>
<td>2014</td>
<td>5%</td>
<td>1065</td>
</tr>
<tr>
<td>2015</td>
<td>20%</td>
<td>4260</td>
</tr>
</tbody>
</table>

**Carry over**

<table>
<thead>
<tr>
<th>Year</th>
<th>Table A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>4500</td>
</tr>
</tbody>
</table>

**Total**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>17280</td>
</tr>
</tbody>
</table>
NARRATIVE

PWD sounds the wells monthly. All wells below with the exception of #4 are available for use. Well #8 is the greatest producer and is sited in the groundwater worksheet.

**Static Water Level**
(depth to water table - feet)

<table>
<thead>
<tr>
<th>Site #</th>
<th>Jun-2016</th>
<th>Jun-2013</th>
<th>change in feet from 2013 to 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>570</td>
<td>547</td>
<td>-23</td>
</tr>
<tr>
<td>3</td>
<td>594</td>
<td>568</td>
<td>-26</td>
</tr>
<tr>
<td>4</td>
<td>Out-of-Service</td>
<td>620-OOS</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>564</td>
<td>557</td>
<td>-7</td>
</tr>
<tr>
<td>7</td>
<td>563</td>
<td>545</td>
<td>-18</td>
</tr>
<tr>
<td>8</td>
<td>564</td>
<td>545</td>
<td>-19</td>
</tr>
<tr>
<td>10</td>
<td>438</td>
<td>417</td>
<td>-21</td>
</tr>
<tr>
<td>11</td>
<td>can't sound</td>
<td>off line</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>584</td>
<td>559</td>
<td>-25</td>
</tr>
<tr>
<td>15</td>
<td>off line</td>
<td>536</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>185</td>
<td>185</td>
<td>0</td>
</tr>
<tr>
<td>18</td>
<td>can't sound</td>
<td>can't sound</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>56</td>
<td>73</td>
<td>17</td>
</tr>
<tr>
<td>21</td>
<td>182</td>
<td>175</td>
<td>-7</td>
</tr>
<tr>
<td>22</td>
<td>120</td>
<td>111</td>
<td>-9</td>
</tr>
<tr>
<td>23</td>
<td>595</td>
<td>577</td>
<td>-18</td>
</tr>
<tr>
<td>25</td>
<td>off line</td>
<td>can't sound</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>off line</td>
<td>198</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>137</td>
<td>128</td>
<td>-9</td>
</tr>
<tr>
<td>30</td>
<td>194</td>
<td>194</td>
<td>0</td>
</tr>
<tr>
<td>32</td>
<td>260</td>
<td>255</td>
<td>-5</td>
</tr>
<tr>
<td>33</td>
<td>off line</td>
<td>219</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>214</td>
<td>231</td>
<td>17</td>
</tr>
</tbody>
</table>
Narrative
P WD’s groundwater supply comes from 22 active wells. Below is historical pumping from 2013-2015. Production from the wells is captured on a daily basis through SCADA. Projected pumping is based on the maximum allowed through Antelope Valley Groundwater Basin Adjudication. 2013 had lower production due to abundant surface water supply.

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>9377.872</td>
</tr>
<tr>
<td>2014</td>
<td>12397.32</td>
</tr>
<tr>
<td>2015</td>
<td>11226.69</td>
</tr>
</tbody>
</table>

Total 33001.89

Projected use 2017-2019 in acre feet

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>12000</td>
</tr>
<tr>
<td>2018</td>
<td>12011</td>
</tr>
<tr>
<td>2019</td>
<td>10740</td>
</tr>
</tbody>
</table>

Total 34751
Average anticipated annual supply from Littlerock Dam is 3,000 AF. Littlerock Dam during 2013 -2015 water years produced 1650 acre feet of surface water. Additionally the reservoir is storing 548 acre feet which will be carried over until 2017. The total projected available supply is 2198 acre feet. These level readings are collected daily through SCADA.

<table>
<thead>
<tr>
<th>Year</th>
<th>Production AF</th>
<th>Starting Level ft.</th>
<th>Start Volume AF</th>
<th>End level</th>
<th>End Volume in AF</th>
<th>Net Water AF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>1,557.60</td>
<td>3249.19</td>
<td>1331</td>
<td>3205.85</td>
<td>20</td>
<td>246.60</td>
</tr>
<tr>
<td>2014</td>
<td>741.5315926</td>
<td>3205.85</td>
<td>20</td>
<td>3208.3</td>
<td>46</td>
<td>767.53</td>
</tr>
<tr>
<td>2015</td>
<td>571.9380459</td>
<td>3208.3</td>
<td>46</td>
<td>3213.97</td>
<td>110</td>
<td>635.94</td>
</tr>
</tbody>
</table>

**Total for Period**

1,650.07

Current available supply to be carried over to 2017

6/1/2016 Level ft. Storage in AF

3233 548

### Littlerock Reservoir

<table>
<thead>
<tr>
<th>WATER SURFACE ELEVATION, in Feet</th>
<th>RESERVOIR VOLUME, in Acre Feet</th>
<th>WATER SURFACE ELEVATION, in Feet</th>
<th>RESERVOIR VOLUME, in Acre Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>3186.5</td>
<td>-</td>
<td>3241</td>
<td>890</td>
</tr>
<tr>
<td>3212</td>
<td>97</td>
<td>3242</td>
<td>936</td>
</tr>
<tr>
<td>3213</td>
<td>110</td>
<td>3243</td>
<td>990</td>
</tr>
<tr>
<td>3214</td>
<td>123</td>
<td>3244</td>
<td>1,045</td>
</tr>
<tr>
<td>3215</td>
<td>136</td>
<td>3245</td>
<td>1,099</td>
</tr>
<tr>
<td>3216</td>
<td>149</td>
<td>3246</td>
<td>1,153</td>
</tr>
<tr>
<td>3217</td>
<td>161</td>
<td>3247</td>
<td>1,207</td>
</tr>
<tr>
<td>3218</td>
<td>179</td>
<td>3248</td>
<td>1,269</td>
</tr>
<tr>
<td>3219</td>
<td>196</td>
<td>3249</td>
<td>1,331</td>
</tr>
<tr>
<td>3220</td>
<td>213</td>
<td>3250</td>
<td>1,394</td>
</tr>
<tr>
<td>3221</td>
<td>230</td>
<td>3251</td>
<td>1,456</td>
</tr>
<tr>
<td>3222</td>
<td>248</td>
<td>3252</td>
<td>1,518</td>
</tr>
<tr>
<td>3223</td>
<td>270</td>
<td>3253</td>
<td>1,588</td>
</tr>
<tr>
<td>3224</td>
<td>293</td>
<td>3254</td>
<td>1,659</td>
</tr>
<tr>
<td>3225</td>
<td>315</td>
<td>3255</td>
<td>1,729</td>
</tr>
<tr>
<td>3226</td>
<td>338</td>
<td>3256</td>
<td>1,799</td>
</tr>
<tr>
<td>3227</td>
<td>360</td>
<td>3257</td>
<td>1,869</td>
</tr>
<tr>
<td>3228</td>
<td>390</td>
<td>3258</td>
<td>1,948</td>
</tr>
<tr>
<td>3229</td>
<td>420</td>
<td>3259</td>
<td>2,026</td>
</tr>
<tr>
<td>3230</td>
<td>450</td>
<td>3260</td>
<td>2,104</td>
</tr>
<tr>
<td>3231</td>
<td>479</td>
<td>3261</td>
<td>2,183</td>
</tr>
<tr>
<td>3232</td>
<td>509</td>
<td>3262</td>
<td>2,261</td>
</tr>
<tr>
<td>3233</td>
<td>548</td>
<td>3263</td>
<td>2,345</td>
</tr>
<tr>
<td>3234</td>
<td>587</td>
<td>3264</td>
<td>2,429</td>
</tr>
<tr>
<td>3235</td>
<td>625</td>
<td>3265</td>
<td>2,513</td>
</tr>
<tr>
<td>3236</td>
<td>664</td>
<td>3266</td>
<td>2,601</td>
</tr>
<tr>
<td>3237</td>
<td>703</td>
<td>3267</td>
<td>2,690</td>
</tr>
<tr>
<td>3238</td>
<td>750</td>
<td>3268</td>
<td>2,784</td>
</tr>
<tr>
<td>3239</td>
<td>796</td>
<td>3269</td>
<td>2,877</td>
</tr>
<tr>
<td>3240</td>
<td>843</td>
<td>3270</td>
<td>2,970</td>
</tr>
</tbody>
</table>
The Butte Table A Lease agreement would provide 5316 acre feet in the specified scenario.

### Calculation Methodology

#### Butte County "Annual Leased Table A Allocated Amount" Calculation Methodology

There are two different methods of calculating the "Annual Leased Table A Allocated Amount", one method is for when the South of Delta (SOD) allocations are 0 to 20% and another method for when SOD allocations are above 20%.

**Allocation Method for South of Delta (SOD) Allocations 0 to 20% (Conference Years)**

Total "Annual Leased Table A Allocated Amount" = Maximum Amount Available for Lease (AF) + (3,500 AF - Butte County's in-County used amount of its 3,500 AF)(SOD Allocation)

Example: Assume a SOD allocation of 20% and an in-County use of 205 AF

Total "Annual Leased Table A Allocated Amount" = 2,500 AF + (3,500 AF - 205 AF)(0.2) = 3,159 AF

**Allocation Method for South of Delta (SOD) Allocations Above 20% (Non-Conference Years)**

Total "Annual Leased Table A Allocated Amount" = (Butte County's Total Table A Amount - Butte County's in-County used amount of its 3,500 AF)(SOD Allocation)

Example: Assume a SOD allocation of 40% and an in-County use of 2,668 AF

Total "Annual Leased Table A Allocated Amount" = (27,500 AF - 2,668 AF) (0.40) = 9,932.8 AF

<table>
<thead>
<tr>
<th>Dudley Partners</th>
<th>58.33%</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWD</td>
<td>41.67%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100.00%</strong></td>
</tr>
</tbody>
</table>

**Notes:**

1) Total "Annual Leased Table A Allocated Amount" refers to Article 2.4.1 page 4 of the SETTLEMENT AGREEMENT AND RELEASE REGARDING BUTTE COUNTY.

2) The "Maximum Amount Available for Lease (AF)" Refers to Column 5, Exhibit B, page 17 of the SETTLEMENT AGREEMENT AND RELEASE REGARDING BUTTE COUNTY.
## EXHIBIT B-EXAMPLE MAXIMUM BC TABLE AMOUNT

<table>
<thead>
<tr>
<th>(1) Table A SOD Allocation (%)</th>
<th>(2) Existing Conditions (Table A Allocation) (af)</th>
<th>(3) BC Table Allocation (af)</th>
<th>(4) Maximum BC Table Amount Available for In-county Use (af)</th>
<th>(5) Maximum Amount Available for Lease (af)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>3,000</td>
<td>3,000</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>1,375</td>
<td>3,000</td>
<td>3,000</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>2,750</td>
<td>4,000</td>
<td>3,500</td>
<td>500</td>
</tr>
<tr>
<td>15</td>
<td>4,125</td>
<td>5,000</td>
<td>3,500</td>
<td>1,500</td>
</tr>
<tr>
<td>20</td>
<td>5,500</td>
<td>6,000</td>
<td>3,500</td>
<td>2,500</td>
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Max AF available | fc AF available | In County | In County Uses | SWP Allotment | Total Available | PWD % | PWD Total AF
---|---|---|---|---|---|---|---
2013 | 27500 | 0 | 405 | 35% | 9483.25 | 0.4167 | 3951.670275
2014 | 0 | 3000 | 405 | 5% | 154.75 | 0.4167 | 64.484325
2015 | 2500 | 3500 | 405 | 20% | 3119 | 0.4167 | 1299.6873

5315.8419