

Indio Water Authority
Water Supply Reliability Certification

The sole source of supply for potable water for Indio Water Authority (IWA) is local groundwater.

Below, the responses to each question with worksheets are explained.

Worksheet 1: Water supply reliability certification form

Question 1

In 1964, the Department of Water Resources estimated the subbasins in the Coachella Valley groundwater basin contained approximately 39,200,000 acre feet of water in the first 1,000 feet below the surface (Page III-12, <http://www.cvwd.org/ArchiveCenter/ViewFile/Item/505>). The Coachella Valley Water Management Plan (CVWMP) estimates approximately 28.8 million acre feet of water within the Whitewater Subbasin and the Mission Creek Garnet Hill Management Plan estimates 1.4 million acre feet within the Mission Creek Subbasin (Page 6-6, <http://www.cvwd.org/ArchiveCenter/ViewFile/Item/516>).

There are six water agencies that utilize the groundwater basin to supply potable water to retail customers: Coachella Water Authority, Coachella Valley Water District (CVWD), DWA, Indio Water Authority, Mission Springs Water District and Myoma Dunes Water Company. In addition, many private pumpers utilize the groundwater basin. Both agency and private pumping is reported annually in Engineer's Reports on Water Supply and Replenishment Assessment prepared by CVWD and DWA. For purposes of this certification, the agencies have agreed to report their supply based on their percentage of total reported pumping in the groundwater basin to ensure no water is double-counted in the Water Supply Reliability Certification and Data Submission Form. The agencies agreed to do so based on a total water basin supply of 30.2 MAF as described in the CVWD Urban Water Management Plan which estimates the Indio subbasin supply at 28.8 MAF and the Mission Creek Replenishment Report which estimates the Mission Creek Subbasin supply at 1.4 MAF (Page III-6, <http://www.cvwd.org/ArchiveCenter/ViewFile/Item/505>). The assumptions are summarized in the table below:

Agencies & private pumpers	Total Pumped (AF)	% of total Pumping	Groundwater supply available (AF)
Coachella Water Authority	6,486	2	715,311
Coachella Valley Water District	94,611	35	10,434,211
Desert Water Agency	29,731	11	3,278,895
Indio Water Authority	18,233	7	2,010,834
Mission Springs Water District	7,106	3	783,688
Myoma Dunes Mutual Water Company	3,386	1	373,404
Other Pumpers	114,282	42	12,603,657
Total Pumped	273,835	100	30,200,000

Question 2

Through IWA’s SCADA system, groundwater elevations are monitoring on a monthly basis.

Question 3

For June 2013, average groundwater level was at 149 feet below ground surface. After pumping, average groundwater level was at 174 feet below ground surface.

For June 2016, average groundwater level was at 110 feet below ground surface. After pumping, average groundwater level was at 150 feet below ground surface.

Pumping depths range from approximately 190 feet to 1,300 feet below ground surface.

Question 4

In order to determine how many feet can be withdrawn without substantially affecting our ability to pump water, we evaluated the depth of water to the depth of our pumps. As described above, our water level at this well is 150 feet below ground surface. The pump for this well is located nearly 300 feet. Therefore, we would have to withdraw 150 feet before impacting our ability to pump water. We believe that this is a fair estimate given that most of the pumps for wells in our service area are set at 300 feet.

Question 5

As described above, the six water agencies collaboratively distributed the volume of the groundwater basin for purposes of this assessment. No other water will be distributed to another supplier.

Worksheet 1: Total available water supply for individual water supplier

Wholesaler Supplied:

IWA does not provide wholesale water supply, therefore the top portion of the table has been left blank.

Self-Supplied:

GROUNDWATER

As described above, the five public water agencies collaboratively distributed the volume of the groundwater basin for purposes of this assessment. The amount listed is reduced by IWA production in each water year to show reduced supply. As requested, projections are based on mirroring of previous water years. For the projection for the months remaining in water year 2015/16, we used 2013/14 for June through September.

Water Year 2012/13	Water Year 2013/14	Water Year 2014/15
2,010,834 AF	1,989,159.8 AF	1,967,741.2 AF
Water Year 2016/17	Water Year 2017/18	Water Year 2018/19
1,949,075.6 AF	1,930,625.1 AF	1,909,206.5 AF

Water Supplies Committed to Other Uses:

None of IWA’s potable water supplies are committed to other uses since all potable uses are included in our production estimates.