



January 19, 2016

Mr. Paul Matuska
 Bureau of Reclamation
 Lower Colorado Regional Office
 P.O. Box 61470
 Boulder City, NV 89006-1470

Re: 2015 YMIDD Pilot Following Program Conserved Water Quantification

Dear Mr. Matuska:

The Central Arizona Groundwater Replenishment District (CAGRDR) is providing you a final quantification of the 2015 Yuma Mesa Irrigation and Drainage District (YMIDD) Pilot Following Program (PFP) volume of conserved water. As you know, CAGRDR retained LandIQ, a firm with extensive experience developing crop consumptive use (CU) estimates, to prepare the technical memorandum entitled, 'YMIDD Crop Mapping and Consumptive Use Estimation.' This technical memorandum was modified and finalized on April 2, 2015, after review and comment by both Reclamation and the Arizona Department of Water Resources.

In 2015, CAGRDR, YMIDD and Reclamation, conducted two field verifications during the months of March and September, which confirmed that all enrolled PFP fields totaling 1,410.64 acres were indeed fallowed. The 2015 CU values (volume of conserved water) were calculated using AZMET's Yuma South Station¹ daily temperature and precipitation data from January 1st through December 31st, 2015.

The following table is a summary of the 2015 CU values using YMIDD crop distribution for years 2011-2013.

	2011 Crop Distribution		2012 Crop Distribution		2013 Crop Distribution	
	Acres	2015 CU (a-f)	Acres	2015 CU (a-f)	Acres	2015 CU (a-f)
Alfalfa	577	3,221	660	3,683	716	4,000
Dates	9	54	9	54	9	54
Declining Citrus	387	1,854	424	2,033	501	2,400
Mature Citrus	304	1,434	217	1,021	135	637
Small Grains	52	99	--	--	11	20
Sudan Grass	40	148	--	--	--	--
Young Citrus	17	58	8	26	8	26
Totals	1,386	6,868	1,317	6,817	1,380	7,137

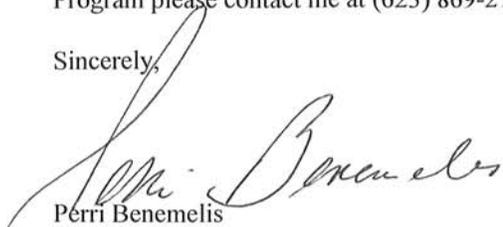
CAGRDR's final 2015 quantification of conserved water totals **7,180.15 acre-feet (AF)** for 2015 and was calculated as follows:

- $6,940.67$ (2011-2013 CU average) / $1,361$ (2011-2013 acreage average) = 5.09 AF/conserved water per acre
- 5.09 AF x $1,410.64$ acres (2015 enrolled acres) = $7,180.15$ AF

¹ <http://ag.arizona.edu/azmet/data/3615et.txt>

If you have questions regarding the 2015 final quantification of conserved water for the YMIDD Pilot Following Program please contact me at (623) 869-2182.

Sincerely,



Perri Benemelis
Central Arizona Groundwater Replenishment District

cc: Andrew Craddock, CAGR
Brian Henning, CAP
Gerry Walker, ADWR

