Richard B. Obenshain

From: Erin Young [eyoung@flusol.com]
Sent: Tuesday, October 11, 2011 11:53 AM
To: Richard B. Obenshain
Cc: 'Norm Fain'
Subject: PDS Designation Demand Worksheet
Attachments: ADWR DAWS Demand Spreadsheet emy revised.xlsx

Hi Rick,

Thank you for taking a look at this. Basically I found out that of the subdivisions listed as being served by PDS, The Retreat Phases I & II has not yet been recorded (in talking to Cochise County Assessor and the Recorder offices.) Of all the subdivisions you list, this was the one that has not been recorded and therefore I added that 42.83 AF/YR to the "projected demand".

Of the committed demand exercise that Christa did, I trust that method, and stuck with her lot count within developed areas. When I totaled up her committed demands (minus the demand for The Retreat) I came up with a total committed demand of 137.19 AF. I made the assumption that, for the total issued Water Reports demand of 2,502.53 AF/YR, what wasn't current demand (1,430.85 AF) or committed demand (137.19 AF) were areas that have not been developed. That number for 2010 is 934.49 AF (which includes the 42.83 AF for The Retreat Phases I & II).

The Tribute Demand at build out is 2471.48 AF/YR, however 219.13 AF of this will be served by Liberty Water Company. So I took 2252.35 AF at build out and spread this as projected demand between 2012 and 2025, which is 160.87 AF/YR. Originally, all of Tribute's Demand at build out was included as projected demand, but I am not sure this was correct since this Demand Spreadsheet is only for PDS, not Liberty Water Company (although the entire build out demand is in the model.)

Let me know if you agree with these calculations and assumptions. We appreciate your time spent looking this over.

Erin

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DESIGNATION DEMAND WORKSHEET
REV 4-25-08

Instructions: This spreadsheet is provided for your use, to help organize the demands included in your application for designation or modification of designation of assured or adequate water supply. Start by entering the name of your system and the date, then fill in the years, starting with the year of the most recent annual report you filed with the Department and projecting out one year at at time. Some fields in this spreadsheet calculate automatically. Please be sure to fill in your current (most recent annual report) total water production, including losses and your committed demand (the estimated water demand associated with platted but unbuilt lots in your service area), also from the most recent annual report you have filed with the Department.

If you have any questions on how to use this spreadsheet please contact the Office of Assured and Adequate Water Supply at (602) 771-8599 for assistance.

Name of Municipal Provider:	City of Sierra Vista
Service Area Right Number:	91-000058.0000
Date:	4/11/2011

I. List your current and committed demand from the most recent Annual Water Withdrawal and Use Report submitted to the Department:

A. Committed demand (AWS schedule, most recent annual report:
137.19 AF/YR

B. Current demand (total production, most recent annual report):
1,430.85 AF
2010 Year of Report

II. For each future year, enter your estimate of the total volume of water you will need to produce (including at least 10% lost and unaccounted for water) to meet your anticipated service area water demand in acre-feet:

A.

Year	Applicant's Estimate of Future Service Area Demand (AF)	*Reported Current demand (AF/YR) (See R12-15-701.26)*	*Reported Committed demand (AF/YR) (See R12-15-701.24)*	*DRAFT Projected demand not included in current and committed (AF/YR) (See R12-15-701.57)*	*DRAFT Annual estimated demand (AF/YR) (See R12-15-701.12 and R12-15-701.38.b)*	*Demand On-Project SRP*	*Demand Off-Project SRP*	*Demand Off-Project SRP met with SRP Exchange Agreement*
2010	1,430.85	1,430.85	137.19	934.49	2,502.53			
2011	3,933.38	1,430.85	137.19	2,502.53	4,070.57			
2012	4,094.25	1,430.85	137.19	2,663.40	4,231.44			
2013	4,255.12	1,430.85	137.19	2,824.27	4,392.31			
2014	4,415.99	1,430.85	137.19	2,985.14	4,553.18			
2015	4,576.90	1,430.85	137.19	3,146.05	4,714.09			
2016	4,737.78	1,430.85	137.19	3,306.93	4,874.97			
2017	4,898.66	1,430.85	137.19	3,467.81	5,035.85			
2018	5,059.54	1,430.85	137.19	3,628.69	5,196.73			
2019	5,220.42	1,430.85	137.19	3,789.57	5,357.61			
2020	5,381.30	1,430.85	137.19	3,950.45	5,518.49			
2021	5,542.18	1,430.85	137.19	4,111.33	5,679.37			
2022	5,703.06	1,430.85	137.19	4,272.21	5,840.25			
2023	5,863.94	1,430.85	137.19	4,433.09	6,001.13			
2024	6,024.82	1,430.85	137.19	4,593.97	6,162.01			
2025	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2026	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2027	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2028	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2029	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2030	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2031	6,185.70	1,430.85	137.19	4,754.85	6,322.89			
2032	6,185.70	1,430.85	137.19	4,754.85	6,322.89			

B. **Please attach an explanation of the assumptions used in estimating future service area demand. If sufficient space is not available below, attach additional sheets:**
Committed demand determined using the method described in the hydrologic study. PDS service area is basically built out except for the Tribute Master Plan. All projected demands are based on the Tribute Master Plan.