



# WorleyParsons

resources & energy

## Appendix D.6 Summary of Published Water Budget Information GENESIS SOLAR, LLC

Water Balance Component	Quantity of Water (acre-feet per year)							
	During Prison Operations		Following Prison Construction		Prior to Prison Construction			
	Source		Engineering Science, 1990		Woodward-Clyde Consultants, 1986	Metzger and others, 1973	U.S. Bureau of Reclamation, 1972	DWR, 1975
	Year	2009	1989-1990	1990	1986	--	1966	1952
<b>Inflow</b>								
Infiltration of Precipitation		29,530 <sup>5</sup>	--	29,530 <sup>5</sup>	29,530 <sup>5</sup>	--	--	--
Agricultural Irrigation Return Flow		1,000 <sup>6</sup>	--	18,720	19,200	--	--	--
Susurface Inflow from Pinto Basin		290 <sup>7</sup>	--	290	290	--	--	--
Susurface Inflow from Cadiz Basin		--	--	--	--	--	--	--
Treated Prison Effluent Return Flow		600 <sup>8</sup>	--	558	0	--	--	--
Prison Agricultural Return Flow		inc.	--	198	0	--	--	--
<b>Total</b>		<b>31,420</b>	--	<b>19,766</b>	<b>49,020</b>	--	--	--
<b>Outflow</b>								
Pumpage for non-Prison Agricultural Irrigation Use		2,600 <sup>6</sup>	--	46,800	48,000	--		
Pumpage for non-Prison Domestic Use		1,800 <sup>6</sup>	--	150	150	--	9,100	11
Prison Water Demand		2,100 <sup>8</sup>	442 <sup>3</sup>	690 <sup>4</sup>	620 <sup>1</sup>	--	--	--
Subsurface Outflow to Palo Verde Mesa		1,162 <sup>7</sup>	--	1,162	870	400		
Pumpage from Prison Agricultural Irrigation Use		500 <sup>6</sup> (included above)	0	494	0	0	0	0
Evapotranspiration from Palen Lake		--	--	--	--	--	--	--
<b>Total</b>		<b>7,662</b>	--	<b>49,296</b>	<b>49,020</b>	--	--	--

Notes:

1. Projected in 1986 prior to prison construction
2. -- = unknown/not reported
3. Total water consumption from May 1989 to May 1990 with no data for December 1989. Prison was not at full capacity.
4. Calculated water demand based on prison population capacity multiplied by a daily water demand of 220 gallons per inmate per day.
5. Calculated for an 820,000 acre study area
6. DWR, 2005
7. Engineering Science 1990; Woodward-Clyde Consultants, 1986
8. California Department of Corrections, 2009