



September 17, 2012

Mr. Peter Kavounas  
Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730

**Subject: *Annual Streamflow Monitoring Report for Fiscal 2011/12, Water Rights Permit 21225***

Dear Mr. Kavounas:

Wildermuth Environmental, Inc. (WEI) hereby submits the fourth Annual Streamflow Monitoring Report, as prepared per your direction and pursuant to Term 20 of the Chino Basin Watermaster's (Watermaster) Water Rights Permit 21225. Per the terms of the March 20, 2007 Stipulation, Watermaster and the California Department of Fish and Game (DFG) agreed that Watermaster will prepare estimates of the monthly changes in discharge in each tributary of the Santa Ana River from which stormwater is diverted, prepare annual reports describing the data and methods used to prepare these estimates, and submit these annual reports to the DFG by October 1<sup>st</sup> of each year.<sup>1</sup> Each annual report will cover the 12-month period spanning July 1<sup>st</sup> through June 30<sup>th</sup>.

This report describes the data collected, presents the methodology for assessing stormwater diversion impacts, and summarizes the diversion analysis for each tributary system for the period of July 1, 2011 through June 30, 2012.

As in past years, the measured and estimated stormwater and dry-weather discharges diverted for recharge within the Chino Basin between July 1, 2011 and June 30, 2012 were relatively small, about 16 percent of the total discharge. About 60 percent of the diversions occurred between October and April during short-duration, high-volume stormwater events. Watermaster's diversion for recharge provides some mitigation to the stormwater discharge increases that result from the urbanization of the watershed. This reduction in stormwater and dry-weather discharges improves water quality in the Santa Ana River and its Chino Basin tributaries and reduces channel erosion in these drainages.

#### **DATA COLLECTION AND METHODOLOGY**

There are four main tributary systems to the Santa Ana River from which stormwater and dry-weather discharges are diverted for groundwater recharge: Chino Creek, Cucamonga Creek, Day Creek, and San

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<sup>1</sup> In September 2010, Watermaster requested and the DFG approved an extension of the report due date from September 1<sup>st</sup> to October 1<sup>st</sup> of each year.

Sevaine Creek. These creeks, their drainage areas, and other significant hydrologic features are shown in Figure 1.

Two of the four tributary systems, Chino and Cucamonga Creeks, are equipped with U.S. Geological Survey (USGS) stream gages, and for these stations, average daily discharge data are available. The USGS data, stormwater and dry-weather discharge diversion measurement data from the Inland Empire Utilities Agency (IEUA), and discharge data collected from other known point discharges (e.g. recycled and imported water discharges) are used to estimate the discharge of Chino and Cucamonga Creeks as they enter the Prado Dam Reservoir. These data are also used to reconstruct hydrographs for the tributaries as they would have been without stormwater and dry-weather discharge diversions.

Day Creek and San Sevaine Creek are not equipped with USGS gaging stations. The hydrographs for these two systems were estimated using WEI's Waste Load Allocation Model (WLAM). The WLAM uses recharge basin and stream channel characteristics, daily precipitation, boundary inflows, and land use characteristics to estimate stormwater runoff; moreover, the WLAM routes stormwater, non-tributary inflows, and dry-weather discharges through the Santa Ana River Watershed. The WLAM was developed for and is used by the Santa Ana Regional Water Quality Control Board to evaluate the discharge and water quality impacts of existing and planned recycled and stormwater discharges to the surface and groundwater resources of the watershed.<sup>2</sup> To ensure the model uses the most recent data, the Basin Monitoring Task Force periodically calibrates the WLAM.<sup>3</sup> Watermaster and the City of Riverside used the WLAM to complete the only watershed-wide (system-wide) review of all appropriative water rights applications on the Santa Ana River in the 2006 State Water Resources Control Board hearing process. In 2010, Watermaster updated the WLAM and subsequently used it to develop its *2010 Recharge Master Plan Update*.<sup>4</sup>

Daily discharge tables for key hydrologic components and for the aggregate of hydrologic components are included in the enclosed appendices.

## DIVERSION IMPACT ANALYSIS

During fiscal 2011/12, Watermaster diverted a total of 9,289 acre-feet (acre-ft) of stormwater and dry-weather discharge to spreading basins on the Chino, Cucamonga, Day, and San Sevaine Creek tributary systems. Table 1 summarizes, by tributary, the monthly recharge volumes diverted to each spreading basin. Impact analyses of these diversions are provided below.

### Chino Creek

Figure 1 shows the locations of significant points of recharge and discharge on the Chino Creek tributary system, including Watermaster's points of diversion to recharge basins, USGS gaging stations, the Orange County Water District's (OCWD) OC-59 imported water turnout, and the IEUA's recycled water

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<sup>2</sup> Wildermuth Environmental, Inc. (2009). *2008 Santa Ana River Wasteload Allocation Model Report*. Prepared for the Basin Monitoring Program Task Force (May, 2009). Lake Forest: Authors.

<sup>3</sup> The Basin Monitoring Task Force consists of all recycling and regional water agencies in the watershed. The Basin Monitoring Task Force is administered by the Santa Ana Watershed Project Authority.

<sup>4</sup> Wildermuth Environmental, Inc, Black & Veatch Corporation, Wagner & Bonsignore, and Sierra Water Group. (2010). *2010 Recharge Master Plan Update*. Prepared for the Chino Basin Watermaster, Chino Basin Water Conservation District, and the Inland Empire Utilities Agency (June, 2010). Lake Forest: Authors.

discharge points.<sup>5</sup> The impact of Watermaster's diversions on discharge to the Prado Dam Reservoir is assessed at the point on Chino Creek where recycled water from the IEUA RP-1 (Prado) recycling plant discharges to Chino Creek (see *Point of Discharge Estimation* feature on Figure 1).<sup>6</sup> The estimated average daily discharge that enters the Prado Dam Reservoir from Chino Creek is calculated by subtracting the average daily discharge at OCWD OC-59 turnout on San Antonio Creek from the average daily discharge measured at USGS gage 11073360, followed by adding the average daily discharge from each of the IEUA's recycled water discharge points (CCWRF, RP-1 Prado, and RP-5). OCWD OC-59 discharge was removed from USGS gage 11073360 discharges because it is a non-tributary imported (State Water Project) water source. These discharges are summarized in rows 1 through 3 of Table 2a and shown in detail in Appendices A1 through A3. The resulting daily discharge time history, summarized in row 4 of Table 2a and shown in detail in Appendix A4, approximates actual daily discharge in Chino Creek after Watermaster's diversions and after the removal of OCWD OC-59 discharge. Note that this estimation does not account for additional stormwater inputs generated by the Chino Creek drainage area that enter the creek downstream of USGS gage 11073360. The unaccounted for downstream flows are generated by an area that covers approximately 24 square miles and represents about 26 percent of the total Chino Creek drainage. Thus, the relative impact of Watermaster's diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row 5 of Table 2a and shown in detail in Appendix A5. When added together, the daily discharge time histories from Appendices A4 and A5 yield the approximate daily discharge time history in Chino Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. The discharge time history without stormwater diversions is summarized in row 6 of Table 2a and shown in detail in Appendix A6. The percent reduction in discharge entering the Prado Dam Reservoir relative to the estimated discharge without Watermaster diversions is summarized in row 7 of Table 2a.

The total discharge entering the Prado Dam Reservoir from Chino Creek during fiscal 2011/12 was estimated to be about 19,157 acre-ft, ranging from a low of about 496 acre-ft/month to a high of about 2,482 acre-ft/month. The total diversions from Chino Creek were about 1,287 acre-ft. About 99 percent of the diversions on Chino Creek occurred between October and April and were coincident with the larger storm events of the year. About 6 percent of the total discharge in Chino Creek was diverted for recharge in fiscal 2011/12. Total discharge to the Prado Dam Reservoir is shown in Figure 2a as a stacked bar chart for monthly totals (acre-ft) and a xy scatter plot for the average daily discharge (cubic feet per second [cfs]). Figure 2a illustrates that the relative magnitude of the stormwater diversions for recharge is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2a also shows that the vast majority of recharge results from just a few short-duration, high-volume stormwater events.

### Cucamonga Creek

Figure 1 shows the location of significant points of recharge and discharge on the Cucamonga Creek tributary system, including Watermaster's points of diversion to recharge basins, USGS gaging stations, and the IEUA's recycled water discharges. The impact of Watermaster's diversions on discharge to the

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<sup>5</sup> Metropolitan Water District of Southern California connection OC-59 supplies OCWD with State Water Project water, which is released to San Antonio Creek and travels down to Chino Creek, through Prado Basin, and into Orange County via the Santa Ana River.

<sup>6</sup> Note that the IEUA RP-1 recycling plant has two discharge locations: one to Chino Creek (RP-1 Prado) and one to Cucamonga Creek (RP-1 Cucamonga).

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Santa Ana River at the Prado Dam Reservoir is assessed at the point where the concrete-lined channel of Cucamonga Creek ends (see *Point of Discharge Estimation* feature on Figure 1). Average daily discharge entering the Prado Dam Reservoir from Cucamonga Creek is approximated as the average daily discharge measured at USGS gage 11073495. The estimated discharge time history is summarized in row 1 of Table 2b and shown in detail in Appendix B1. Note that this estimation does not account for additional stormwater inputs generated by the Cucamonga Creek drainage area that enter the creek downstream of USGS gage 11073495. The unaccounted for downstream flows are generated by an area that covers approximately 13 square miles and represents about 15 percent of the total Cucamonga Creek drainage. Thus, the relative impact of Watermaster's diversions is overstated.

The time history of stormwater and dry-weather discharge diversions is summarized in row 2 of Table 2b and shown in detail in Appendix B2. When added together, the daily discharge time histories from Appendices B1 and B2 yield the approximate daily discharge time history in Cucamonga Creek had Watermaster not diverted stormwater and dry-weather flows for recharge. The discharge time history without Watermaster diversions is summarized in row 3 of Table 2b and shown in detail in Appendix B3. The percent reduction in discharge entering the Prado Dam Reservoir relative to the estimated discharge without Watermaster diversions is summarized in row 4 of Table 2b.

The total discharge entering the Prado Dam Reservoir from Cucamonga Creek during fiscal 2011/12 was estimated to be about 23,511 acre-ft, ranging from a low of about 491 acre-ft/month to a high of about 3,629 acre-ft/month. The total diversions from Cucamonga Creek were about 4,424 acre-ft. About 92 percent of the diversions on Cucamonga Creek occurred between October and April and were coincident with the larger storm events of the year. About 16 percent of the total discharge in Cucamonga Creek was diverted for recharge in fiscal year 2011/12. Total discharge to the Prado Dam Reservoir is shown in Figure 2b as a stacked bar chart for monthly totals (acre-ft) and a xy scatter plot for average daily discharge (cfs). Figure 2b illustrates that the relative magnitude of the stormwater diversions for recharge is small compared to the total estimated discharge entering the Prado Dam Reservoir. Figure 2b also shows that the vast majority of recharge results from just a few short-duration, high-volume stormwater events.

## Day Creek

Figure 1 shows the locations of significant points of recharge and discharge on the Day Creek tributary system, including Watermaster's points of diversion to recharge basins and the confluence of Day Creek and the Santa Ana River (see *Point of Discharge Estimation* feature on Figure 1). Day Creek's average daily discharge to the Santa Ana River was simulated using the WLAM. The simulated daily discharge represents discharge to the Santa Ana River without stormwater and dry-weather diversions for recharge. The discharge time history simulated by the WLAM is summarized in row 1 of Table 2c and shown in detail in Appendix C1.

The time history of stormwater and dry-weather discharge diversions is summarized in row 2 of Table 2c and shown in detail in Appendix C2. Subtracting the daily diversion time history of Appendix C2 from the daily discharge time history of Appendix C1 yields an estimated time history of the average daily discharge from Day Creek to the Santa Ana River after Watermaster diversions.<sup>7</sup> This discharge time

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<sup>7</sup> Note that the WLAM does not simulate dry-weather flows on the Day or San Sevaine Creek tributary systems. Thus, there are dates where the simulated discharge to the Santa Ana River without diversions is zero even though there are measured diversions from the Day or San Sevaine Creek tributary systems; the calculated average daily flow after diversions was set to zero because discharge cannot be a negative number.

history is summarized in row 3 of Table 2c and shown in detail in Appendix C3. The percent reduction in discharge entering the Santa Ana River relative to the simulated discharge without Watermaster diversions is summarized in row 4 of Table 2c. Table 2c also summarizes the discharge measured at USGS gage 11066460 (row 5), the closest gage on the Santa Ana River upstream of its confluence with Day Creek (see Figure 1). The percent reduction in discharge from Day Creek relative to discharge in the Santa Ana River at USGS gage 11066460 is summarized in row 6 of Table 2c.

Total discharge to the Santa Ana River from Day Creek during fiscal 2011/12 was estimated to be about 3,882 acre-ft, ranging from a low of 0 acre-ft/month to a high of about 1,471 acre-ft/month. The total diversions from Day Creek were estimated to be about 479 acre-ft. About 92 percent of the diversions on Day Creek occurred between October and April and was coincident with the larger storm events of the year. About 1 percent of the total discharge in Day Creek was diverted for recharge in fiscal year 2011/12. The percent reduction in discharge in Day Creek relative to discharge in the Santa Ana River, as represented at USGS gage 11066460, is about 0.1 percent. Total discharge is shown in Figure 2c as a stacked bar chart for monthly totals (acre-ft) and a xy scatter plot for average daily discharge (cfs). Figure 2c illustrates that the vast majority of recharge results from just a few short-duration, high-volume stormwater events.

### San Sevaine Creek

Figure 1 shows the locations of significant points of recharge and discharge on the San Sevaine Creek tributary system, including Watermaster's points of diversion and the confluence of San Sevaine Creek and the Santa Ana River (see *Point of Discharge Estimation* feature on Figure 1). San Sevaine Creek's average daily discharge to the Santa Ana River was simulated using the WLAM. The simulated daily discharge represents discharge to the Santa Ana River without stormwater and dry-weather diversions for recharge. The discharge time history simulated by the WLAM is summarized in row 1 of Table 2d and shown detail in Appendix D1.

The time history of stormwater and dry-weather discharge diversions is summarized in row 2 of Table 2d and shown in detail in Appendix D2. Subtracting the daily diversion time history of Appendix D2 from the daily discharge time history of Appendix D1 yields an estimated time history of the average daily discharge from San Sevaine Creek to the Santa Ana River after Watermaster diversions.<sup>5</sup> This discharge time history is summarized in row 3 of Table 2d and shown in detail in Appendix D3. The percent reduction in discharge entering the Santa Ana River relative to the estimated discharge of San Sevaine Creek without Watermaster diversions is summarized in row 4 of Table 2d. Table 2d also summarizes the discharge measured at USGS gage 11066460 (row 5), the closest gage on the Santa Ana River upstream of its confluence with San Sevaine Creek (see Figure 1). The percent reduction in discharge from San Sevaine Creek relative to discharge in the Santa Ana River at USGS gage 11066460 is summarized in row 6 of Table 2d.

Total discharge to the Santa Ana River from San Sevaine Creek during fiscal 2011/12 was estimated to be about 5,174 acre-ft, ranging from a low of 0 acre-ft/month to a high of about 1,918 acre-ft/month. The total diversions from San Sevaine Creek were estimated to be about 3,100 acre-ft. About 86 percent of the diversions on San Sevaine Creek occurred between October and April and were coincident with the larger storm events of the year. About 11 percent of the total discharge in San Sevaine Creek was diverted for recharge in fiscal 2011/12. The percent reduction in discharge in San Sevaine Creek relative to discharge in the Santa Ana River, as represented at USGS gage 11066460, is about 2 percent. Total discharge is shown in Figure 2d as a stacked bar chart for monthly totals (acre-ft) and a xy scatter plot

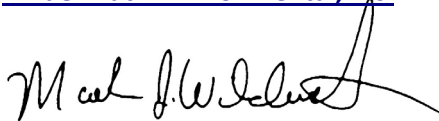
for average daily discharge (cfs). Figure 2d illustrates that the majority of recharge results from just a few short-duration, high-volume stormwater events.

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Should you have any questions regarding the information contained herein, please call me or Samantha Adams at (949) 420-3030.

Respectfully,

Wildermuth Environmental, Inc.



Mark J. Wildermuth, MS, RCE 32331 (exp. 12/31/2012)  
President



Samantha S. Adams  
Supervising Scientist

Encl. Tables 1, 2a through 2d; Figures 1 and 2a through 2d; and Appendices A through D

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**Table 1**  
**Total Monthly Stormwater Recharge Fiscal Year 2011/12<sup>1,2</sup>**  
 (acre-ft)

Tributary System	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Total
<b>Chino Creek</b>													
College Heights	0	0	0	4	0	0	0	0	0	0	0	0	4
Upland	0	0	0	29	31	8	20	27	60	47	0	0	222
Montclair	0	0	0	78	152	22	60	83	176	132	0	0	702
Brooks Street	2	2	7	18	50	16	45	50	103	64	1	0	358
<b>Tributary Total</b>	<b>2</b>	<b>2</b>	<b>7</b>	<b>129</b>	<b>233</b>	<b>46</b>	<b>125</b>	<b>160</b>	<b>338</b>	<b>244</b>	<b>1</b>	<b>0</b>	<b>1,287</b>
<b>Cucamonga Creek</b>													
7 <sup>th</sup> and 8 <sup>th</sup> Street	11	11	8	44	138	77	57	153	281	223	25	21	1,048
Ely	17	17	19	215	211	36	89	95	247	135	3	12	1,097
Turner 1 and 2	16	22	2	0	81	88	147	221	295	258	14	20	1,163
Turner 3 and 4	0	3	41	63	66	69	86	109	126	88	40	25	718
Grove	0	0	0	55	85	23	47	36	99	46	4	5	399
<b>Tributary Total</b>	<b>44</b>	<b>53</b>	<b>70</b>	<b>377</b>	<b>582</b>	<b>293</b>	<b>426</b>	<b>613</b>	<b>1,047</b>	<b>750</b>	<b>86</b>	<b>82</b>	<b>4,424</b>
<b>Day Creek</b>													
Lower Day	2	4	1	23	15	11	15	22	26	35	2	2	157
Etiwanda Debris Basin	0	0	0	42	5	7	7	9	23	7	0	0	99
Victoria	4	1	0	30	25	9	11	4	18	96	20	3	222
<b>Tributary Total</b>	<b>5</b>	<b>5</b>	<b>2</b>	<b>95</b>	<b>46</b>	<b>27</b>	<b>33</b>	<b>35</b>	<b>66</b>	<b>138</b>	<b>22</b>	<b>5</b>	<b>479</b>
<b>San Sevaine Creek</b>													
San Sevaine	0	0	0	54	32	21	55	54	161	75	0	0	451
Hickory	0	4	32	18	11	1	49	59	53	30	0	2	259
Banana	31	0	0	20	30	18	48	21	44	35	0	0	245
RP-3	80	31	47	138	123	79	110	176	223	219	62	60	1,347
Declez	81	3	6	74	120	56	87	46	184	133	7	1	799
<b>Tributary Total</b>	<b>192</b>	<b>38</b>	<b>85</b>	<b>303</b>	<b>315</b>	<b>174</b>	<b>348</b>	<b>356</b>	<b>665</b>	<b>493</b>	<b>68</b>	<b>63</b>	<b>3,100</b>
<b>Tributary System Total</b>	<b>243</b>	<b>98</b>	<b>164</b>	<b>904</b>	<b>1,175</b>	<b>540</b>	<b>931</b>	<b>1,165</b>	<b>2,117</b>	<b>1,624</b>	<b>177</b>	<b>150</b>	<b>9,289</b>

<sup>1</sup> Source: A. Campbell (IEUA), personal communication, August 27, 2012.

<sup>2</sup> Recharge volumes represent diversions of both stormwater and dry-weather discharge; recharge volumes are rounded to the nearest whole number.

**Table 2a**  
**Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Chino Creek for FY 2011/12**  
 (acre-ft)

Row	Discharge Components	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Total
(1)	Discharge in Chino Creek at USGS Gage 11073360 <sup>1</sup>	4,994	3,736	1,990	576	525	142	455	379	799	663	80	75	<b>14,415</b>
(2)	Discharge to San Antonio Creek from OCWD OC-59	4,828	3,670	1,902	0	0	0	0	0	0	0	0	0	<b>10,400</b>
(3)	Recycled Water Discharge from IEUA's CCWRF, RP-5, and RP-1 (Prado)	576	430	543	1,415	1,790	1,784	1,871	1,664	1,683	1,720	1,134	533	<b>15,142</b>
(4) =(1)-(2)+(3)	Estimated Discharge Entering the Prado Dam Reservoir	741	496	631	1,991	2,315	1,926	2,327	2,042	2,482	2,383	1,214	609	<b>19,157</b>
(5)	Stormwater and Dry-Weather Discharge Diversions	2	2	7	129	233	46	125	160	338	244	1	0	<b>1,287</b>
(6) =(4)+(5)	Estimated Discharge that would have Entered the Prado Dam Reservoir <i>without</i> Stormwater and Dry-Weather Diversions	743	498	637	2,119	2,546	1,971	2,450	2,201	2,819	2,625	1,215	609	<b>20,444</b>
(7) =(5)/(6)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge <i>without</i> Diversions	0.3%	0.4%	1.1%	6.1%	9.1%	2.3%	5.1%	7.3%	12.0%	9.3%	0.1%	0.0%	<b>6%</b>

<sup>1</sup> Data are provisional for October 2011 to June 2012; for July 2011 to October 2011, data were available (USGS Water-Data Report 2011 for Gage 11073360).



**Table 2b**  
**Impact of Stormwater Diversions on Total Monthly Discharge Entering the Prado Dam Reservoir from Cucamonga Creek for FY 2011/12**  
 (acre-ft)

Row	Discharge Components	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Total
(1)	Discharge Entering the Prado Dam Reservoir after Stormwater and Dry-Weather Diversions (USGS Gage 11073495) <sup>1</sup>	1,360	1,643	1,137	2,724	3,063	2,373	2,022	2,030	3,629	2,319	721	491	<b>23,511</b>
(2)	Stormwater and Dry-Weather Discharge Diversions	44	53	70	377	582	293	426	613	1,047	750	86	82	<b>4,424</b>
(3) =(1)+(2)	Estimated Discharge that would have Entered the Prado Dam Reservoir <i>without</i> Stormwater and Dry-Weather Diversions	1,404	1,695	1,208	3,101	3,645	2,666	2,447	2,644	4,676	3,069	807	573	<b>27,935</b>
(4) =(2)/(3)	Percent Reduction in Discharge Entering the Prado Dam Reservoir Relative to the Estimated Discharge <i>without</i> Diversions	3.1%	3.1%	5.8%	12.2%	16.0%	11.0%	17.4%	23.2%	22.4%	24.4%	10.7%	14.3%	<b>15.8%</b>

<sup>1</sup> Data are provisional for October 2011 to June 2012; for July 2011 to October 2011, data were available (USGS Water-Data Report 2011 for Gage 11073495).

**Table 2c**  
**Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from Day Creek for FY 2011/12**  
 (acre-ft)

Row	Discharge Components	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Total
(1)	Discharge Entering the Santa Ana River <i>without</i> Stormwater and Dry-Weather Diversions <sup>1</sup>	0	77	0	548	544	0	339	354	1,486	578	0	0	<b>3,926</b>
(2)	Stormwater and Dry-Weather Discharge Diversions	5	5	2	95	46	27	33	35	66	138	22	5	<b>479</b>
(3) <sup>2</sup> =(1)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	0	77	0	545	544	0	339	354	1,471	553	0	0	<b>3,882</b>
(4) =(1)-(3)/(1)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge <i>without</i> Diversions	0%	0%	0%	0%	0%	0%	0%	0%	1%	4%	0%	0%	<b>1.1%</b>
(5)	Discharge in the Santa Ana River at USGS Gage 11066460 <sup>3</sup>	3,260	2,727	2,774	3,825	4,795	4,932	4,194	4,287	5,041	3,240	2,530	2,792	<b>44,397</b>
(6) =(1)-(3)/(5)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460 <sup>3</sup>	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%	0.8%	0.0%	0.0%	<b>0.1%</b>

<sup>1</sup> Estimated using the WLAM.

<sup>2</sup> Calculated on a daily basis. Note that the WLAM does not simulate dry-weather flows on the Day Creek tributary system. Thus, dates occur where the estimated discharge to the Santa Ana River without diversions is zero even though the measured diversions from Day Creek are greater than zero. For such dates, the calculated average daily flow after diversions is set to zero.

<sup>3</sup> Data are provisional for October 2011 to June 2012; for July 2011 to October 2011, data were available (USGS Water-Data Report 2011 for Gage 11066460).

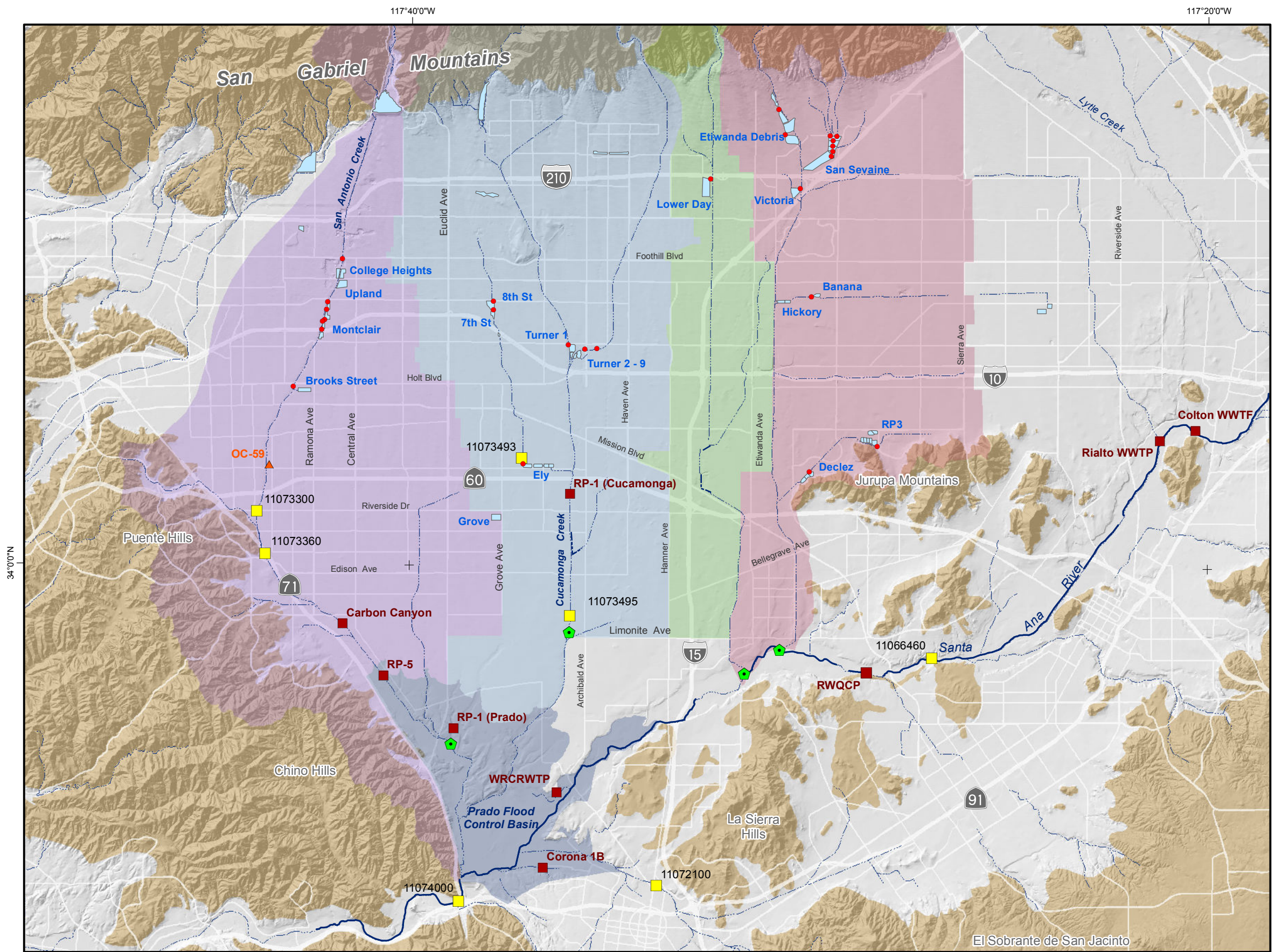
**Table 2d**  
**Impact of Stormwater Diversions on Total Monthly Discharge Entering the Santa Ana River from San Sevaine Creek for FY 2011/12**  
 (acre-ft)

Row	Discharge Components	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Total
(1)	Discharge Entering the Santa Ana River <i>without</i> Stormwater and Dry-Weather Diversions <sup>1</sup>	69	183	38	778	828	56	478	506	1,986	835	45	19	<b>5,822</b>
(2)	Stormwater and Dry-Weather Discharge Diversions	192	38	85	303	315	174	348	356	665	493	68	63	<b>3,100</b>
(3) <sup>2</sup> =(1)-(2)	Estimated Discharge Entering the Santa Ana River after Stormwater and Dry-Weather Diversions	2	149	0	737	766	0	426	456	1,918	719	2	0	<b>5,174</b>
(4) =(1)-(3)/(1)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge <i>without</i> Diversions	97%	19%	100%	5%	8%	100%	11%	10%	3%	14%	96%	98%	<b>11%</b>
(5)	Discharge in the Santa Ana River at USGS Gage 11066460 <sup>3</sup>	3,260	2,727	2,774	3,825	4,795	4,932	4,194	4,287	5,041	3,240	2,530	2,792	<b>44,397</b>
(6) =(1)-(3)/(5)	Percent Reduction in Discharge Entering the Santa Ana River Relative to Discharge at 11066460 <sup>3</sup>	2.1%	1.2%	1.4%	1.1%	1.3%	1.1%	1.3%	1.2%	1.4%	3.6%	1.7%	0.7%	<b>1.5%</b>

<sup>1</sup> Estimated using the WLAM.

<sup>2</sup> Calculated on a daily basis. Note that the WLAM does not simulate dry-weather flows on the Day Creek tributary system. Thus, dates occur where the estimated discharge to the Santa Ana River without diversions is zero even though the measured diversions from Day Creek are greater than zero. For such dates, the calculated average daily flow after diversions is set to zero.

<sup>3</sup> Data are provisional for October 2011 to June 2012; for July 2011 to October 2011, data were available (USGS Water-Data Report 2011 for Gage 11066460).



**Main Map Features**

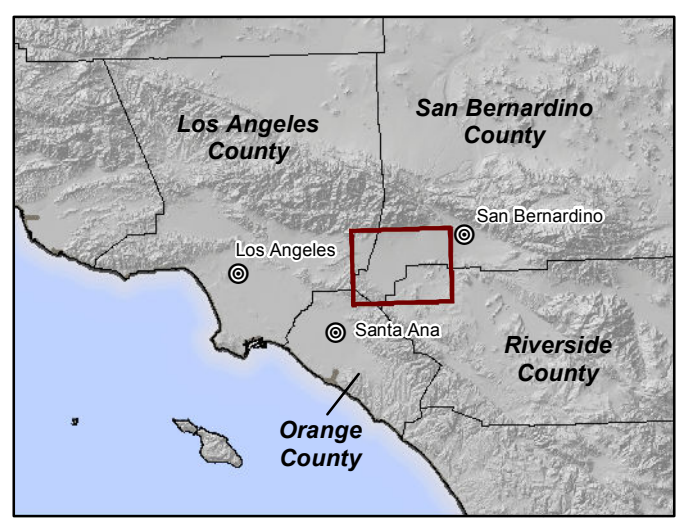
- Flood Control and Conservation Basins
- Rivers and Streams
- Active Points of Diversion
- USGS Gaging Station
- Recycled Water Discharge Location
- Points of Discharge Estimation
- OCWD OC-59 State Water Project Discharge

**Drainage Areas**

- Chino Creek System
- Cucamonga Creek System
- Day Creek System
- San Sevaine and Etiwanda Creek Systems
- Prado Dam Reservoir

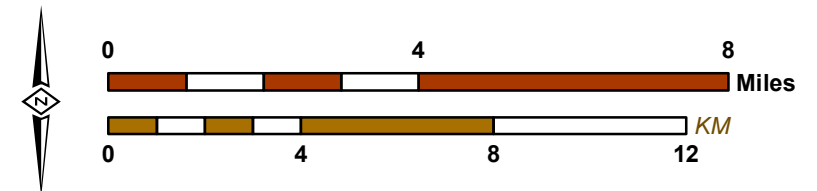
**Geology**

- Consolidated Bedrock**
- Undifferentiated Pre-Tertiary to Early Pleistocene Igneous, Metamorphic, and Sedimentary Rocks



Prepared by:  
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Author: MAB  
 Date: 9/17/2012  
 Document Name: 20120816\_Basin\_Diversions

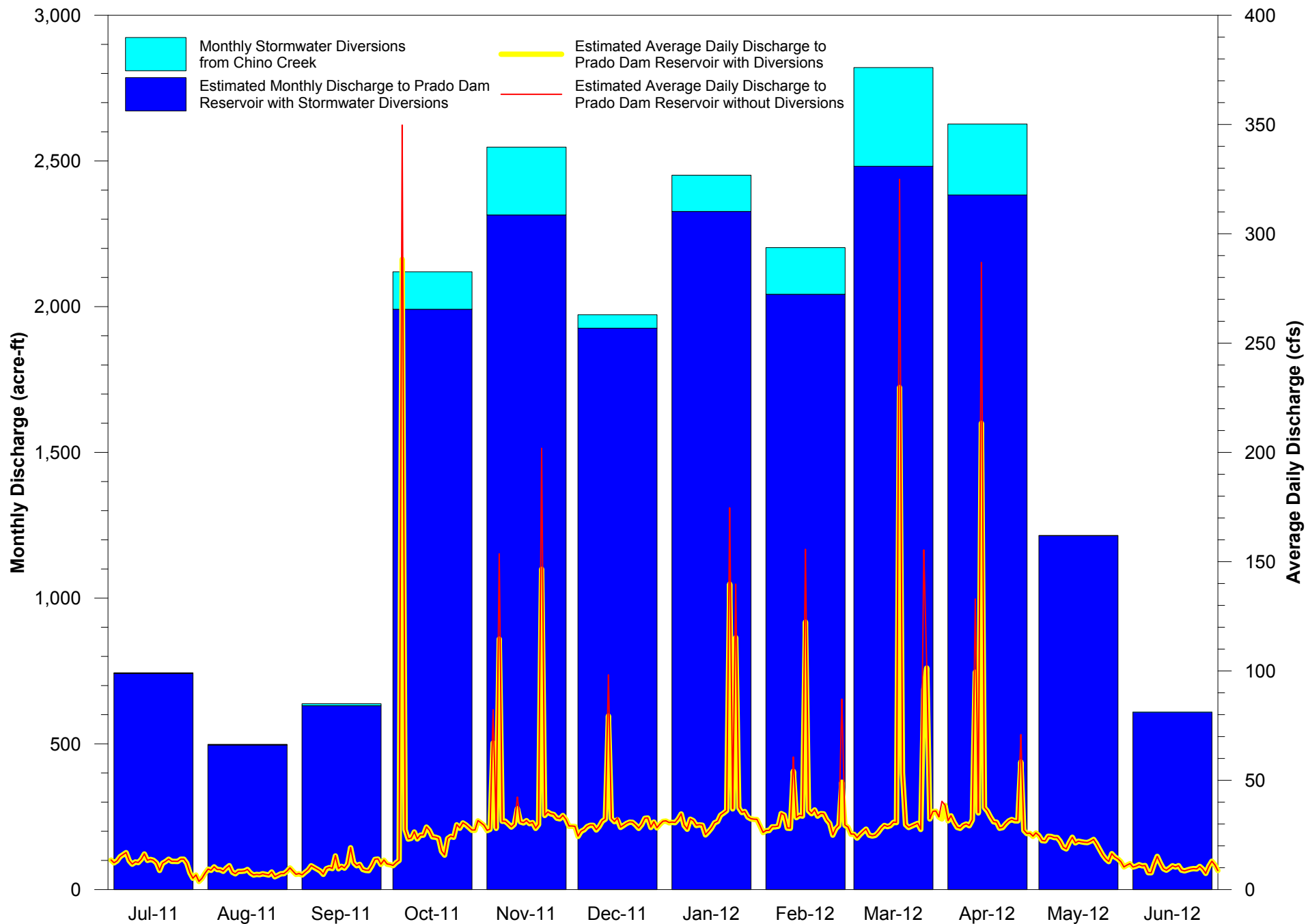


**Water Rights Compliance Reporting**  
 Fiscal Year 2011/2012

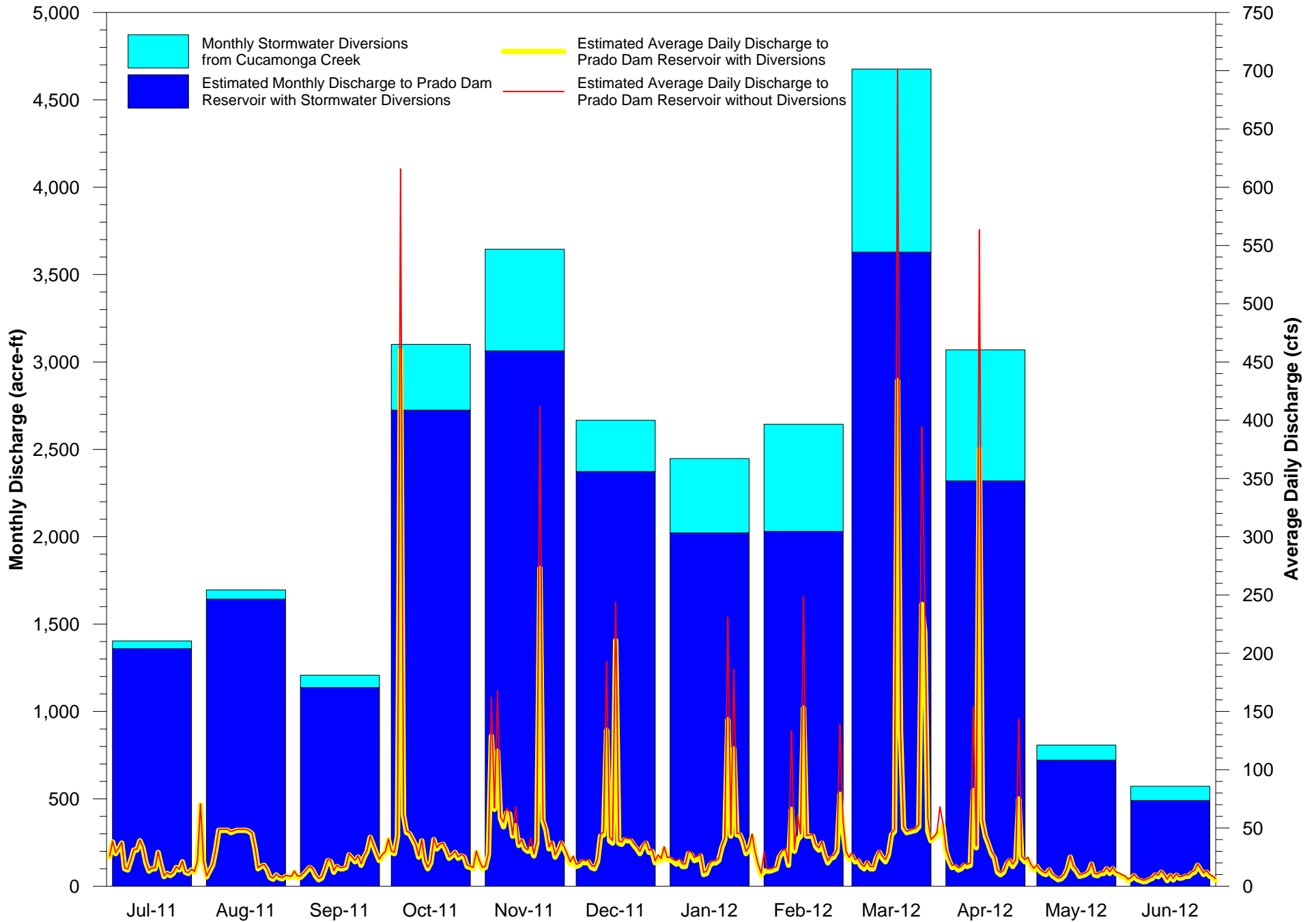
**Stormwater Recharge Points of Diversion**  
**Water Rights Permit 21225**

**Figure 1**

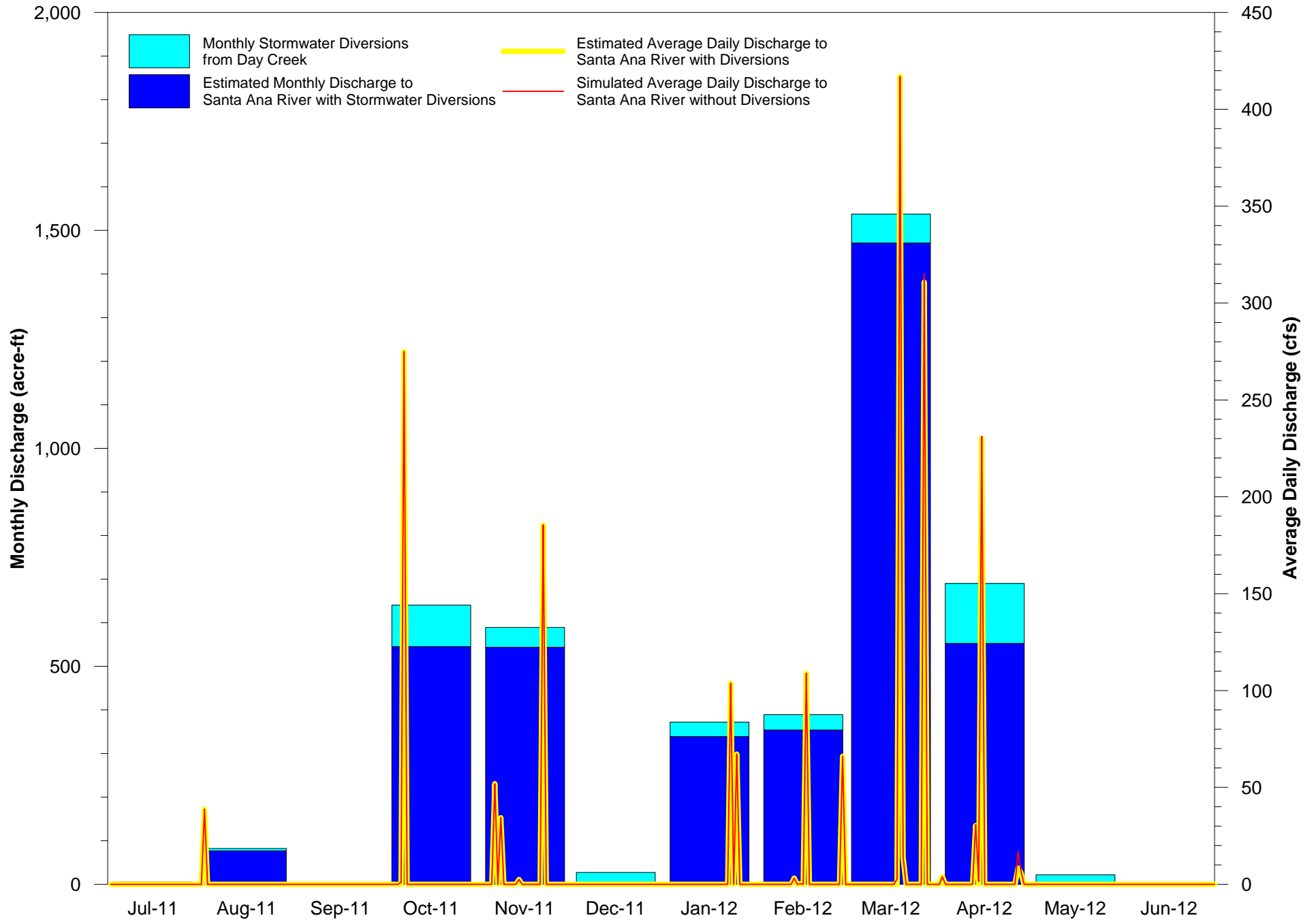
**Figure 2a**  
**Estimated Discharge from Chino Creek to Prado Dam Reservoir**  
**with and without Stormwater Diversions**



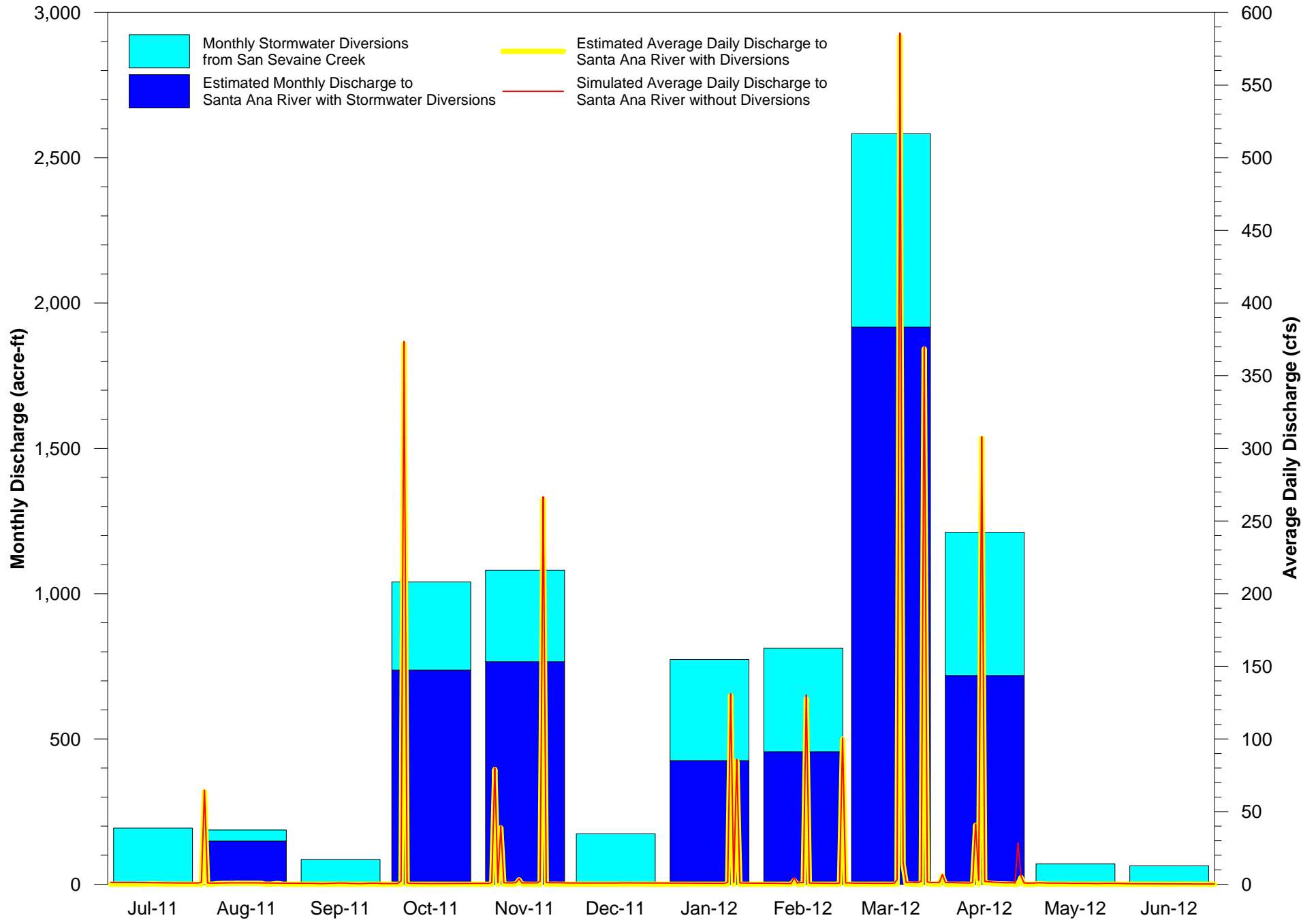
**Figure 2b**  
**Estimated Discharge from Cucamonga Creek to Prado Dam Reservoir**  
**with and without Stormwater Diversions**



**Figure 2c**  
**Estimated Discharge from Day Creek to the Santa Ana River**  
**with and without Stormwater Diversions**



**Figure 2d**  
**Estimated Discharge from San Sevaine Creek to the Santa Ana River**  
**with and without Stormwater Diversions**





**Appendix A1**  
**Average Daily Discharge at USGS Gage 11073360 on Chino Creek**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	33.0	11.0	56.0	1.0	0.7	0.7	1.0	1.6	1.0	5.9	1.3	1.5
2	43.0	68.0	66.0	0.9	0.7	0.6	1.2	1.7	1.0	1.4	1.3	1.3
3	38.0	126.0	66.0	1.0	0.6	0.6	1.2	1.6	1.0	1.4	1.2	1.1
4	32.0	111.0	61.0	0.9	38.0	0.6	1.0	1.6	1.0	1.5	1.2	1.5
5	41.0	83.0	51.0	267.0	0.8	0.6	1.0	1.6	1.1	1.5	1.5	1.1
6	46.0	66.0	51.0	1.4	86.0	0.6	1.0	1.7	1.2	1.4	1.1	1.1
7	43.0	61.0	65.0	0.8	1.7	0.6	1.0	1.7	0.9	1.5	1.2	1.1
8	66.0	45.0	60.0	0.7	0.7	0.7	1.0	1.9	1.0	1.5	1.2	1.2
9	68.0	46.0	62.0	0.7	0.6	0.7	1.0	2.1	1.1	1.5	1.2	1.2
10	57.0	44.0	62.0	0.7	0.6	0.7	1.0	2.0	1.1	1.5	1.2	1.1
11	60.0	42.0	64.0	0.7	0.6	0.7	1.3	28.0	1.1	67.0	1.4	1.2
12	74.0	54.0	65.0	0.7	7.2	48.0	1.9	4.1	1.2	2.7	1.5	1.2
13	90.0	54.0	62.0	0.7	0.6	0.9	1.8	2.2	1.1	181.0	1.5	1.1
14	88.0	55.0	53.0	0.7	0.6	0.7	1.8	2.2	0.9	4.0	1.4	1.9
15	78.0	47.0	32.0	0.7	0.6	3.0	1.8	89.0	1.2	3.1	1.4	3.6
16	108.0	57.0	40.0	0.7	0.6	0.7	1.9	3.7	0.9	2.3	1.4	3.2
17	109.0	59.0	32.0	0.7	0.6	0.7	2.2	2.5	206.0	1.9	1.5	2.9
18	102.0	57.0	27.0	1.0	0.6	0.7	2.3	3.8	27.0	1.9	1.4	1.3
19	102.0	56.0	15.0	0.7	0.6	0.7	1.9	2.2	2.0	1.9	1.4	0.8
20	105.0	57.0	1.3	0.8	115.0	0.7	1.9	2.1	1.3	1.9	1.3	0.8
21	100.0	62.0	2.8	0.7	1.4	0.8	104.0	2.3	--	1.9	1.4	0.9
22	100.0	64.0	1.3	0.7	0.7	0.8	1.9	2.6	--	1.7	1.3	0.9
23	90.0	64.0	1.3	0.7	0.6	0.8	80.0	2.1	1.2	2.2	1.3	0.9
24	101.0	66.0	0.9	0.7	0.6	0.7	2.6	1.2	1.2	1.9	1.3	0.9
25	107.0	65.0	1.0	0.8	0.6	0.7	1.8	1.1	63.0	1.7	1.2	0.8
26	104.0	65.0	0.9	0.7	0.6	0.7	1.8	1.0	76.0	31.0	1.1	0.7
27	110.0	66.0	1.0	0.7	0.6	0.7	1.7	21.0	1.8	2.0	1.1	0.6
28	109.0	66.0	1.0	0.7	0.7	0.8	1.7	1.4	1.5	1.9	1.2	0.6
29	108.0	66.0	0.9	0.7	0.7	0.9	1.6	1.0	1.5	1.7	1.3	0.7
30	102.0	52.0	0.9	0.7	0.7	1.0	1.7	--	1.4	1.6	1.2	0.6
31	103.0	48.0	--	0.7	--	0.9	1.6	--	2.1	--	1.4	--
<b>Total (cfs)</b>	2,517.0	1,883.0	1,003.3	290.2	264.5	71.8	229.5	191.0	402.8	334.4	40.4	37.9
<b>Minimum</b>	32.0	11.0	0.9	0.7	0.6	0.6	1.0	1.0	0.9	1.4	1.1	0.6
<b>Maximum</b>	110.0	126.0	66.0	267.0	115.0	48.0	104.0	89.0	206.0	181.0	1.5	3.6
<b>Average</b>	81.2	60.7	33.4	9.4	8.8	2.3	7.4	6.6	13.9	11.1	1.3	1.3
<b>Total (acre-ft)</b>	4,993.7	3,735.9	1,990.5	575.7	524.7	142.5	455.3	378.9	799.1	663.4	80.2	75.2

**Appendix A2**  
**Average Daily Discharge at OC-59 on San Antonio Creek**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	31.3	8.3	55.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	42.2	66.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	37.3	125.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	30.3	109.3	60.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	39.2	82.2	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	44.3	65.2	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	41.2	60.2	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	65.2	43.3	59.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	67.3	43.3	61.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	56.3	42.2	61.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	58.2	40.2	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	70.2	53.2	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	86.3	53.2	55.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	84.2	54.2	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	73.3	45.2	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	103.3	56.3	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	104.3	58.2	29.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	97.3	56.3	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	98.3	55.3	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	100.2	56.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	96.2	61.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	96.2	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	86.3	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	96.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	102.2	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	101.2	64.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	107.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	107.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	107.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	101.2	51.2	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
31	102.2	47.2	--	0.0	--	0.0	0.0	--	0.0	--	0.0	--
<b>Total (cfs)</b>	2,433.7	1,849.6	958.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Minimum</b>	30.3	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Maximum</b>	107.2	125.2	65.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Average</b>	78.5	59.7	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total (acre-ft)</b>	4,828.4	3,669.6	1,902.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Appendix A3**  
**Average Daily Discharge of All IEUA Recycled Water Effluent Discharges to Chino Creek**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	11.8	4.8	6.5	10.4	28.6	28.2	29.5	24.4	24.3	32.6	24.6	10.4
2	11.4	7.6	5.9	10.1	26.3	23.7	29.5	25.2	24.3	30.0	23.4	9.0
3	12.4	8.0	7.1	11.3	26.9	26.0	29.4	25.4	22.6	32.3	21.2	9.6
4	13.3	8.7	8.2	12.4	29.1	26.8	31.2	27.1	24.1	29.2	21.0	9.9
5	14.2	8.4	9.1	21.3	27.2	28.2	33.6	27.1	25.4	26.9	22.9	9.7
6	15.2	8.4	8.4	26.0	28.6	28.8	28.3	27.2	26.5	26.6	23.2	9.9
7	11.4	7.6	8.5	22.3	29.5	28.8	26.6	33.1	24.0	27.8	22.6	6.7
8	10.8	8.0	7.7	22.7	30.6	26.6	31.2	32.2	23.5	28.5	22.6	6.5
9	11.9	8.2	6.2	25.7	29.4	28.2	30.5	26.0	23.7	27.7	20.9	10.7
10	11.6	6.2	8.8	22.4	28.0	30.6	28.3	26.0	25.1	30.3	18.1	14.1
11	12.1	5.4	9.3	24.1	29.2	31.6	28.3	26.1	26.9	32.5	17.2	11.0
12	12.5	7.6	8.8	24.1	29.9	31.4	27.5	28.8	28.2	32.3	20.1	8.4
13	9.6	7.6	8.7	27.8	30.3	31.6	23.2	31.7	27.7	32.3	22.4	7.7
14	10.1	7.7	7.7	26.3	29.9	30.3	24.6	31.4	28.3	33.4	20.0	7.9
15	8.7	7.4	7.9	23.4	30.9	28.9	26.3	33.4	29.5	32.8	20.7	7.3
16	7.4	6.8	8.0	23.2	29.5	27.7	28.6	32.3	29.7	30.9	20.4	7.1
17	4.0	5.9	8.8	22.7	30.0	28.6	28.9	32.2	23.7	29.1	20.1	8.0
18	7.3	6.2	16.4	16.6	27.4	29.5	31.7	32.6	26.3	28.9	20.1	7.6
19	9.1	6.0	9.4	15.0	29.1	30.2	33.1	31.4	27.7	26.1	20.7	7.7
20	9.1	6.5	9.6	22.6	31.6	30.0	34.2	32.6	27.1	26.5	21.7	8.2
21	9.1	6.2	9.9	23.7	32.5	28.8	35.7	32.3	29.2	28.2	19.5	8.5
22	9.1	5.9	7.9	23.2	34.8	27.2	35.0	29.2	30.5	29.7	17.0	8.7
23	9.1	7.3	7.4	28.9	34.0	28.9	35.3	28.2	29.1	29.9	14.5	8.5
24	9.1	5.1	7.7	27.4	33.7	31.9	34.8	23.7	26.3	29.5	12.7	9.7
25	9.1	5.7	9.9	29.7	32.0	32.0	33.4	26.8	28.5	29.7	11.6	8.5
26	9.3	6.5	12.8	28.9	31.7	27.7	33.9	28.3	25.4	27.4	15.3	6.7
27	5.0	6.5	13.0	27.7	33.3	30.2	31.4	28.2	30.5	25.1	13.8	10.1
28	3.4	7.6	10.5	26.5	31.4	27.4	30.6	28.0	34.2	23.7	12.8	12.4
29	5.9	9.1	12.5	26.5	28.3	28.9	30.5	27.5	34.3	24.0	11.4	10.5
30	2.9	7.6	10.7	30.8	28.3	30.2	30.3	--	31.7	22.7	9.1	8.0
31	4.3	6.2	--	29.7	--	30.5	27.5	--	30.2	--	9.7	--
<b>Total (cfs)</b>	290.4	216.6	273.5	713.3	902.2	899.1	943.2	838.5	848.2	866.8	571.5	268.9
<b>Minimum</b>	2.9	4.8	5.9	10.1	26.3	23.7	23.2	23.7	22.6	22.7	9.1	6.5
<b>Maximum</b>	15.2	9.1	16.4	30.8	34.8	32.0	35.7	33.4	34.3	33.4	24.6	14.1
<b>Average</b>	9.4	7.0	9.1	23.0	30.1	29.0	30.4	28.9	27.4	28.9	18.4	9.0
<b>Total (acre-ft)</b>	576.1	429.7	542.6	1,415.2	1,790.0	1,783.8	1,871.3	1,663.5	1,682.9	1,719.7	1,133.8	533.4

**Appendix A4**  
**Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir**  
**after Watermaster Diversions and Removal of OCWD OC-59 Discharge**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	13.5	7.5	7.2	11.4	29.3	28.8	30.5	26.0	25.3	38.5	25.9	11.9
2	12.2	9.3	6.6	10.9	26.9	24.3	30.7	26.9	25.3	31.4	24.7	10.3
3	13.1	8.8	7.9	12.3	27.5	26.6	30.6	27.0	23.6	33.7	22.4	10.7
4	15.1	10.4	9.0	13.3	67.1	27.3	32.2	28.7	25.1	30.7	22.2	11.4
5	16.0	9.1	10.9	288.3	28.0	28.8	34.6	28.7	26.5	28.4	24.4	10.8
6	16.9	9.1	10.1	27.4	114.6	29.4	29.3	28.9	27.7	28.0	24.3	11.0
7	13.2	8.3	9.3	23.1	31.2	29.4	27.6	34.8	24.9	29.3	23.8	7.8
8	11.6	9.8	8.5	23.4	31.3	27.3	32.2	34.1	24.5	30.0	23.8	7.7
9	12.7	10.9	6.9	26.3	30.0	28.8	31.5	28.1	24.8	29.2	22.1	11.9
10	12.3	7.9	9.6	23.1	28.6	31.3	29.3	28.0	26.2	31.8	19.3	15.2
11	13.8	7.2	10.1	24.9	29.8	32.2	29.6	54.1	28.0	99.5	18.6	12.2
12	16.3	8.3	9.6	24.9	37.1	79.4	29.4	32.9	29.4	35.0	21.6	9.6
13	13.3	8.3	15.4	28.6	30.9	32.5	25.0	33.9	28.8	213.3	23.9	8.8
14	13.8	8.5	9.5	27.0	30.5	31.0	26.4	33.6	29.2	37.4	21.4	9.8
15	13.4	9.2	10.6	24.1	31.5	31.9	28.1	122.4	30.7	35.9	22.1	10.9
16	12.2	7.5	9.8	23.9	30.1	28.4	30.5	36.0	30.6	33.2	21.8	10.3
17	8.8	6.6	11.6	23.4	30.6	29.3	31.1	34.7	229.7	31.0	21.6	10.9
18	12.0	6.9	19.1	17.5	28.0	30.2	34.0	36.4	53.3	30.8	21.5	8.9
19	12.9	6.8	12.2	15.7	29.7	30.8	35.0	33.6	29.7	28.0	22.1	8.5
20	13.9	7.2	10.9	23.4	146.6	30.7	36.1	34.7	28.4	28.4	23.0	9.0
21	12.9	6.9	11.5	24.4	33.9	29.5	139.7	34.6	29.2	30.1	20.9	9.4
22	12.9	6.7	9.2	23.9	35.5	28.0	36.9	31.8	30.5	31.4	18.3	9.6
23	12.9	8.0	8.7	29.6	34.6	29.7	115.3	30.3	30.3	32.1	15.8	9.4
24	13.9	5.9	8.7	28.1	34.3	32.6	37.4	24.9	27.5	31.4	14.0	10.6
25	13.9	6.5	10.9	30.5	32.6	32.7	35.2	27.9	91.5	31.4	12.8	9.3
26	12.0	7.3	13.8	29.6	32.4	28.4	35.7	29.3	101.4	58.4	16.4	7.4
27	7.7	7.3	14.0	28.4	33.9	30.9	33.1	49.2	32.3	27.1	14.9	10.7
28	5.2	8.3	11.5	27.1	32.1	28.2	32.3	29.4	35.7	25.6	14.0	13.0
29	6.6	9.9	13.4	27.1	29.0	29.8	32.1	28.5	35.8	25.7	12.7	11.2
30	3.7	8.4	11.6	31.4	29.0	31.2	32.0	--	33.1	24.3	10.3	8.7
31	5.1	6.9	--	30.4	--	31.3	29.1	--	32.3	--	11.1	--
<b>Total (cfs)</b>	<b>373.7</b>	<b>250.0</b>	<b>318.0</b>	<b>1,003.5</b>	<b>1,166.7</b>	<b>970.9</b>	<b>1,172.7</b>	<b>1,029.5</b>	<b>1,251.0</b>	<b>1,201.2</b>	<b>611.9</b>	<b>306.8</b>
<b>Minimum</b>	<b>3.7</b>	<b>5.9</b>	<b>6.6</b>	<b>10.9</b>	<b>26.9</b>	<b>24.3</b>	<b>25.0</b>	<b>24.9</b>	<b>23.6</b>	<b>24.3</b>	<b>10.3</b>	<b>7.4</b>
<b>Maximum</b>	<b>16.9</b>	<b>10.9</b>	<b>19.1</b>	<b>288.3</b>	<b>146.6</b>	<b>79.4</b>	<b>139.7</b>	<b>122.4</b>	<b>229.7</b>	<b>213.3</b>	<b>25.9</b>	<b>15.2</b>
<b>Average</b>	<b>12.1</b>	<b>8.1</b>	<b>10.6</b>	<b>32.4</b>	<b>38.9</b>	<b>31.3</b>	<b>37.8</b>	<b>35.5</b>	<b>40.4</b>	<b>40.0</b>	<b>19.7</b>	<b>10.2</b>
<b>Total (acre-ft)</b>	<b>741.4</b>	<b>496.0</b>	<b>630.8</b>	<b>1,990.9</b>	<b>2,314.7</b>	<b>1,926.3</b>	<b>2,326.6</b>	<b>2,042.4</b>	<b>2,481.9</b>	<b>2,383.1</b>	<b>1,213.9</b>	<b>608.7</b>

**Appendix A5**  
**Daily Diversions to Spreading Basins from the Chino Creek Tributary System**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
2	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
3	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
4	0.0	0.0	0.1	0.1	15.2	0.1	0.1	0.1	0.1	0.1	0.0	0.0
5	0.0	0.0	0.1	61.4	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
6	0.0	0.0	0.1	0.1	39.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
7	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
8	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
9	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0
10	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
11	0.0	0.0	0.1	0.1	0.1	0.1	0.1	6.6	0.1	33.5	0.0	0.0
12	0.0	0.0	0.1	0.1	5.3	18.8	0.1	0.1	0.1	0.1	0.0	0.0
13	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.1	73.6	0.0	0.0
14	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
15	0.0	0.0	0.1	0.1	0.1	0.9	0.1	33.3	0.1	0.1	0.0	0.0
16	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
17	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	95.3	0.1	0.0	0.0
18	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
19	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
20	0.0	0.0	0.1	0.1	55.3	0.1	0.1	0.1	0.1	0.1	0.0	0.0
21	0.0	0.0	0.1	0.1	0.1	0.1	34.9	0.1	0.1	0.1	0.0	0.0
22	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
23	0.0	0.0	0.1	0.1	0.1	0.1	24.5	0.1	0.1	0.1	0.0	0.0
24	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
25	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	64.0	0.1	0.0	0.0
26	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	12.5	0.0	0.0
27	0.0	0.0	0.1	0.1	0.1	0.1	0.1	38.0	0.1	0.1	0.0	0.0
28	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
29	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0
30	0.0	0.0	0.1	0.1	0.1	0.1	0.1	--	0.1	0.1	0.0	0.0
31	0.0	0.0	--	0.1	--	0.1	0.1	--	8.1	--	0.0	--
<b>Total (cfs)</b>	1.1	1.1	3.5	64.9	117.4	23.1	62.8	80.7	170.6	122.7	0.6	0.2
<b>Minimum</b>	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0
<b>Maximum</b>	0.0	0.0	0.1	61.4	55.3	18.8	34.9	38.0	95.3	73.6	0.0	0.0
<b>Average</b>	0.0	0.0	0.1	2.1	3.9	0.7	2.0	2.8	5.5	4.1	0.0	0.0
<b>Total (acre-ft)</b>	2.2	2.2	6.9	128.7	232.8	45.9	124.6	160.1	338.4	243.6	1.2	0.3

**Appendix A6**  
**Estimated Average Daily Discharge from Chino Creek to Prado Dam Reservoir**  
**without Watermaster Diversion**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	13.5	7.5	7.4	11.5	29.4	28.9	30.7	26.2	25.4	38.7	25.9	11.9
2	12.2	9.4	6.8	11.0	27.1	24.4	30.9	27.0	25.4	31.5	24.7	10.3
3	13.2	8.8	8.0	12.4	27.6	26.7	30.7	27.1	23.7	33.8	22.4	10.7
4	15.1	10.4	9.1	13.4	82.3	27.5	32.3	28.8	25.2	30.9	22.3	11.4
5	16.0	9.2	11.0	349.7	28.0	28.9	34.7	28.8	26.6	28.5	24.4	10.9
6	16.9	9.1	10.2	27.5	153.6	29.5	29.4	29.0	27.8	28.1	24.3	11.0
7	13.2	8.4	9.4	23.2	31.2	29.5	27.7	34.9	25.0	29.5	23.8	7.8
8	11.6	9.8	8.6	23.6	31.3	27.4	32.3	34.2	24.6	30.1	23.8	7.7
9	12.7	11.0	7.0	26.4	30.0	29.0	31.6	28.2	24.9	29.3	22.1	11.9
10	12.4	8.0	9.7	23.3	28.7	31.4	29.4	28.1	26.3	31.9	19.3	15.2
11	13.9	7.2	10.2	25.0	30.0	32.3	29.7	60.7	28.1	133.0	18.6	12.2
12	16.3	8.4	9.7	25.0	42.3	98.3	29.6	33.0	29.5	35.1	21.6	9.6
13	13.4	8.4	15.5	28.7	31.0	32.6	25.1	33.9	28.9	286.9	24.0	8.8
14	13.8	8.5	9.6	27.2	30.6	31.1	26.5	33.7	29.3	37.5	21.4	9.8
15	13.4	9.2	10.8	24.2	31.7	32.8	28.2	155.7	30.9	36.0	22.1	10.9
16	12.2	7.6	9.9	24.0	30.3	28.5	30.6	36.1	30.7	33.4	21.8	10.3
17	8.8	6.7	11.7	23.6	30.8	29.4	31.2	34.8	324.9	31.1	21.6	10.9
18	12.1	7.0	19.3	17.6	28.1	30.3	34.1	36.6	53.4	30.9	21.5	8.9
19	12.9	6.8	12.3	15.8	29.8	31.0	35.1	33.7	29.8	28.2	22.1	8.5
20	13.9	7.3	11.0	23.5	201.9	30.9	36.2	34.9	28.5	28.5	23.0	9.0
21	12.9	7.0	11.7	24.5	34.0	29.7	174.7	34.7	29.3	30.2	20.9	9.4
22	12.9	6.7	9.3	24.0	35.6	28.1	37.0	32.0	30.6	31.5	18.3	9.6
23	12.9	8.1	8.8	29.7	34.8	29.8	139.8	30.4	30.4	32.2	15.9	9.4
24	13.9	5.9	8.8	28.2	34.5	32.7	37.5	25.0	27.6	31.6	14.0	10.6
25	13.9	6.5	11.0	30.6	32.8	32.8	35.3	28.0	155.4	31.5	12.8	9.3
26	12.1	7.3	13.9	29.8	32.5	28.5	35.8	29.4	101.5	70.9	16.4	7.4
27	7.7	7.3	14.1	28.5	34.0	31.0	33.2	87.2	32.4	27.2	14.9	10.7
28	5.2	8.4	11.6	27.2	32.2	28.3	32.4	29.5	35.8	25.7	14.1	13.0
29	6.7	9.9	13.6	27.2	29.1	29.9	32.2	28.6	36.0	25.8	12.8	11.2
30	3.7	8.4	11.7	31.6	29.1	31.3	32.1	--	33.2	24.5	10.3	8.7
31	5.1	7.0	--	30.5	--	31.5	29.3	--	40.4	--	11.2	--
<b>Total (cfs)</b>	374.8	251.1	321.4	1,068.4	1,284.0	994.0	1,235.5	1,110.2	1,421.5	1,323.9	612.5	306.9
<b>Minimum</b>	3.7	5.9	6.8	11.0	27.1	24.4	25.1	25.0	23.7	24.5	10.3	7.4
<b>Maximum</b>	16.9	11.0	19.3	349.7	201.9	98.3	174.7	155.7	324.9	286.9	25.9	15.2
<b>Average</b>	12.1	8.1	10.7	34.5	42.8	32.1	39.9	38.3	45.9	44.1	19.8	10.2
<b>Total (acre-ft)</b>	743.2	497.9	637.4	2,118.6	2,546.2	1,971.2	2,449.9	2,201.5	2,818.9	2,625.3	1,214.6	608.7

**Appendix B1**  
**Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir after Watermaster Diversions**  
**(Average Daily Discharge at USGS Gage 11073495)**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	25.0	21.0	7.6	40.0	15.0	24.0	23.0	9.4	23.0	52.0	14.0	4.8
2	38.0	8.0	7.6	29.0	16.0	17.0	23.0	13.0	26.0	30.0	17.0	5.8
3	28.0	13.0	10.0	28.0	27.0	18.0	21.0	13.0	21.0	22.0	13.0	9.1
4	32.0	18.0	13.0	43.0	129.0	21.0	19.0	13.0	22.0	16.0	11.0	5.8
5	37.0	31.0	16.0	460.0	66.0	20.0	21.0	14.0	17.0	17.0	10.0	5.0
6	15.0	48.0	14.0	61.0	116.0	21.0	17.0	15.0	15.0	14.0	14.0	3.9
7	14.0	48.0	8.6	46.0	58.0	16.0	17.0	25.0	20.0	15.0	9.3	4.1
8	22.0	48.0	5.5	45.0	51.0	15.0	28.0	29.0	15.0	18.0	7.4	5.7
9	31.0	48.0	6.9	40.0	63.0	21.0	27.0	30.0	15.0	17.0	5.6	6.6
10	31.0	46.0	14.0	35.0	62.0	43.0	22.0	18.0	24.0	18.0	6.4	9.6
11	39.0	47.0	22.0	25.0	43.0	44.0	23.0	66.0	29.0	82.0	9.1	8.1
12	33.0	48.0	21.0	39.0	52.0	134.0	26.0	30.0	24.0	33.0	15.0	12.0
13	20.0	48.0	12.0	21.0	35.0	39.0	10.0	40.0	21.0	375.0	25.0	9.0
14	13.0	48.0	17.0	15.0	39.0	37.0	11.0	43.0	27.0	56.0	16.0	4.8
15	15.0	48.0	15.0	20.0	32.0	211.0	18.0	153.0	44.0	43.0	13.0	9.2
16	15.0	47.0	15.0	40.0	30.0	37.0	20.0	43.0	47.0	36.0	8.5	5.4
17	29.0	45.0	16.0	32.0	32.0	36.0	20.0	43.0	434.0	28.0	9.2	9.5
18	18.0	32.0	27.0	35.0	26.0	40.0	22.0	43.0	133.0	24.0	10.0	6.8
19	8.2	15.0	24.0	36.0	37.0	39.0	33.0	34.0	50.0	12.0	12.0	7.2
20	11.0	17.0	21.0	31.0	273.0	39.0	40.0	31.0	46.0	9.9	19.0	8.5
21	9.2	18.0	25.0	24.0	56.0	35.0	143.0	37.0	--	12.0	9.6	8.4
22	11.0	14.0	18.0	26.0	48.0	32.0	43.0	27.0	--	19.0	9.1	11.0
23	16.0	7.3	25.0	29.0	32.0	28.0	118.0	20.0	48.0	22.0	11.0	12.0
24	14.0	6.1	30.0	24.0	37.0	34.0	44.0	24.0	51.0	17.0	11.0	18.0
25	21.0	9.6	42.0	26.0	25.0	37.0	44.0	25.0	242.0	21.0	15.0	14.0
26	12.0	7.0	35.0	25.0	30.0	29.0	38.0	30.0	218.0	75.0	11.0	10.0
27	11.0	6.4	28.0	17.0	37.0	30.0	28.0	79.0	47.0	24.0	15.0	12.0
28	14.0	8.2	22.0	16.0	32.0	20.0	32.0	48.0	39.0	21.0	11.0	8.6
29	12.0	7.8	26.0	15.0	26.0	25.0	43.0	28.0	41.0	23.0	10.0	7.2
30	21.0	7.5	29.0	29.0	19.0	22.0	28.0	--	44.0	17.0	8.5	5.2
31	70.0	12.0	--	21.0	--	32.0	17.0	--	46.0	--	7.6	--
<b>Total (cfs)</b>	685.4	827.9	573.2	1,373.0	1,544.0	1,196.0	1,019.0	1,023.4	1,829.0	1,168.9	363.3	247.3
<b>Minimum</b>	8.2	6.1	5.5	15.0	15.0	15.0	10.0	9.4	15.0	9.9	5.6	3.9
<b>Maximum</b>	70.0	48.0	42.0	460.0	273.0	211.0	143.0	153.0	434.0	375.0	25.0	18.0
<b>Average</b>	22.1	26.7	19.1	44.3	51.5	38.6	32.9	35.3	63.1	39.0	11.7	8.2
<b>Total (acre-ft)</b>	1,359.8	1,642.6	1,137.2	2,724.0	3,063.3	2,372.9	2,021.7	2,030.4	3,628.7	2,319.1	720.8	490.6

**Appendix B2**  
**Daily Diversions to Spreading Basins on the Cucamonga Creek Tributary System**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.8	0.8	1.2	0.6	1.2	1.9	1.9	1.9	1.9	1.9	1.4	1.4
2	0.8	0.8	1.2	1.2	1.2	1.9	1.9	16.5	2.9	1.9	1.4	1.4
3	0.8	0.8	1.2	1.2	1.2	1.9	1.9	1.9	1.9	1.9	1.4	1.4
4	0.8	0.8	1.2	1.2	33.0	1.9	2.9	1.9	1.9	1.9	1.4	1.4
5	0.8	0.8	1.2	155.7	1.2	1.9	2.9	1.9	1.9	1.9	1.4	1.4
6	0.8	0.8	1.2	1.2	51.9	1.9	2.2	1.9	1.9	1.9	1.4	1.4
7	0.8	0.8	1.2	1.2	1.2	1.9	2.2	1.9	1.9	1.9	1.4	1.4
8	0.8	0.8	1.2	1.2	4.0	1.9	2.2	1.9	1.9	1.9	1.4	1.4
9	0.8	0.8	1.2	1.2	4.2	1.9	2.2	1.9	1.9	1.9	1.4	1.4
10	0.8	0.8	1.2	1.2	1.2	1.9	2.6	1.9	1.9	1.9	1.4	1.4
11	0.8	0.8	1.2	1.2	1.2	2.4	2.9	67.3	1.9	72.2	1.4	1.4
12	0.8	0.8	1.2	1.2	16.5	58.8	1.9	1.5	1.9	1.9	1.4	1.4
13	0.8	0.8	1.2	1.2	1.2	3.2	1.9	20.7	1.9	188.5	1.4	1.4
14	0.8	0.8	1.2	1.2	1.2	2.2	1.9	1.9	1.9	1.2	1.4	1.2
15	0.8	0.8	1.2	1.2	1.2	32.8	1.9	95.5	1.9	1.3	1.4	1.4
16	0.8	0.8	1.2	1.2	1.2	1.9	1.9	0.5	1.9	1.9	1.4	1.4
17	0.8	0.8	1.2	1.2	9.6	1.9	1.9	1.0	267.0	1.9	1.4	1.4
18	0.8	0.8	1.2	1.2	1.9	1.9	1.9	1.9	0.5	1.9	1.4	1.4
19	0.8	0.8	1.2	1.2	1.9	1.9	1.9	1.9	1.2	1.9	1.4	1.4
20	0.8	0.8	1.2	1.2	138.8	1.9	1.9	1.9	1.2	1.9	1.4	1.4
21	0.8	0.8	1.2	1.2	1.9	1.9	88.0	1.9	1.4	1.9	1.4	1.4
22	0.8	0.8	1.2	1.2	1.9	1.9	1.5	1.9	1.9	1.9	1.4	1.4
23	0.8	0.8	1.2	1.2	1.9	1.9	68.3	1.9	1.9	1.9	1.4	1.4
24	0.6	0.9	1.2	1.2	1.9	1.9	1.2	1.9	1.9	1.9	1.4	1.4
25	0.6	0.9	1.2	1.2	1.9	1.9	1.7	1.9	152.3	1.9	1.4	1.4
26	0.6	1.1	1.2	1.2	1.9	1.9	1.9	1.9	30.2	68.3	1.4	1.4
27	0.6	1.1	1.2	1.2	1.9	1.9	1.9	59.7	11.2	1.9	1.4	1.4
28	0.6	1.1	1.2	1.2	1.9	1.9	1.9	9.3	1.2	1.9	1.4	1.4
29	0.6	1.1	1.2	1.2	1.9	1.9	1.9	1.9	1.5	1.9	1.4	1.4
30	0.6	1.1	0.8	1.2	1.9	1.9	1.9	--	1.9	1.9	1.4	1.4
31	0.6	1.1	--	1.2	--	1.9	1.9	--	22.1	--	1.4	--
<b>Total (cfs)</b>	22.3	26.7	35.4	189.9	293.2	147.8	214.5	309.1	527.9	378.1	43.4	41.3
<b>Minimum</b>	0.6	0.8	0.8	0.6	1.2	1.9	1.2	0.5	0.5	1.2	1.4	1.2
<b>Maximum</b>	0.8	1.1	1.2	155.7	138.8	58.8	88.0	95.5	267.0	188.5	1.4	1.4
<b>Average</b>	0.7	0.9	1.2	6.1	9.8	4.8	6.9	10.7	17.0	12.6	1.4	1.4
<b>Total (acre-ft)</b>	44.2	52.9	70.3	376.8	581.8	293.2	425.7	613.3	1,047.3	750.2	86.2	81.9



**Appendix B3**  
**Estimated Average Daily Discharge from Cucamonga Creek to Prado Dam Reservoir**  
**without Watermaster Diversions**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	25.8	21.8	8.8	40.6	16.2	25.9	24.9	11.3	24.9	53.9	15.4	6.2
2	38.8	8.8	8.8	30.2	17.2	18.9	24.9	29.5	28.9	31.9	18.4	7.2
3	28.8	13.8	11.2	29.2	28.2	19.9	22.9	14.9	22.9	23.9	14.4	10.5
4	32.8	18.8	14.2	44.2	162.0	22.9	21.9	14.9	23.9	17.9	12.4	7.2
5	37.8	31.8	17.2	615.7	67.2	21.9	23.9	15.9	18.9	18.9	11.4	6.4
6	15.8	48.8	15.2	62.2	167.9	22.9	19.2	16.9	16.9	15.9	15.4	5.3
7	14.8	48.8	9.8	47.2	59.2	17.9	19.2	26.9	21.9	16.9	10.7	5.5
8	22.8	48.8	6.7	46.2	55.0	16.9	30.2	30.9	16.9	19.9	8.8	7.1
9	31.8	48.8	8.1	41.2	67.2	22.9	29.2	31.9	16.9	18.9	7.0	8.0
10	31.8	46.8	15.2	36.2	63.2	44.9	24.6	19.9	25.9	19.9	7.8	11.0
11	39.8	47.8	23.2	26.2	44.2	46.4	25.9	133.3	30.9	154.2	10.5	9.5
12	33.8	48.8	22.2	40.2	68.5	192.8	27.9	31.5	25.9	34.9	16.4	13.4
13	20.8	48.8	13.2	22.2	36.2	42.2	11.9	60.7	22.9	563.5	26.4	10.4
14	13.8	48.8	18.2	16.2	40.2	39.2	12.9	44.9	28.9	57.2	17.4	6.0
15	15.8	48.8	16.2	21.2	33.2	243.8	19.9	248.5	45.9	44.3	14.4	10.6
16	15.8	47.8	16.2	41.2	31.2	38.9	21.9	43.5	48.9	37.9	9.9	6.8
17	29.8	45.8	17.2	33.2	41.6	37.9	21.9	44.0	701.0	29.9	10.6	10.9
18	18.8	32.8	28.2	36.2	27.9	41.9	23.9	44.9	133.5	25.9	11.4	8.2
19	9.0	15.8	25.2	37.2	38.9	40.9	34.9	35.9	51.2	13.9	13.4	8.6
20	11.8	17.8	22.2	32.2	411.8	40.9	41.9	32.9	47.2	11.8	20.4	9.9
21	10.0	18.8	26.2	25.2	57.9	36.9	231.0	38.9	1.4	13.9	11.0	9.8
22	11.8	14.8	19.2	27.2	49.9	33.9	44.5	28.9	1.9	20.9	10.5	12.4
23	16.8	8.1	26.2	30.2	33.9	29.9	186.3	21.9	49.9	23.9	12.4	13.4
24	14.6	7.0	31.2	25.2	38.9	35.9	45.2	25.9	52.9	18.9	12.4	19.4
25	21.6	10.5	43.2	27.2	26.9	38.9	45.7	26.9	394.3	22.9	16.4	15.4
26	12.6	8.1	36.2	26.2	31.9	30.9	39.9	31.9	248.2	143.3	12.4	11.4
27	11.6	7.5	29.2	18.2	38.9	31.9	29.9	138.7	58.2	25.9	16.4	13.4
28	14.6	9.3	23.2	17.2	33.9	21.9	33.9	57.3	40.2	22.9	12.4	10.0
29	12.6	8.9	27.2	16.2	27.9	26.9	44.9	29.9	42.5	24.9	11.4	8.6
30	21.6	8.6	29.8	30.2	20.9	23.9	29.9	--	45.9	18.9	9.9	6.6
31	70.6	13.1	--	22.2	--	33.9	18.9	--	68.1	--	9.0	--
<b>Total (cfs)</b>	707.7	854.6	608.6	1,562.9	1,837.2	1,343.8	1,233.5	1,332.5	2,356.9	1,547.0	406.7	288.6
<b>Minimum</b>	9.0	7.0	6.7	16.2	16.2	16.9	11.9	11.3	1.4	11.8	7.0	5.3
<b>Maximum</b>	70.6	48.8	43.2	615.7	411.8	243.8	231.0	248.5	701.0	563.5	26.4	19.4
<b>Average</b>	22.8	27.6	20.3	50.4	61.2	43.3	39.8	45.9	76.0	51.6	13.1	9.6
<b>Total (acre-ft)</b>	1,404.0	1,695.5	1,207.5	3,100.8	3,645.1	2,666.0	2,447.2	2,643.7	4,676.1	3,069.2	807.0	572.5

**Appendix C1**  
**The WLAM Estimated Daily Discharge from Day Creek to the Santa Ana River**  
**without Watermaster Diversions**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.0	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	1.0	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	275.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	30.8	0.0	0.0
13	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	1.4	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	231.2	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.9	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	417.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	185.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	103.8	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	67.2	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	315.1	17.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.1	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
31	0.0	0.0	--	0.0	--	0.0	0.0	--	0.0	--	0.0	--
<b>Total (cfs)</b>	0.0	38.8	0.0	276.0	274.3	0.0	171.0	178.5	749.0	291.3	0.1	0.0
<b>Minimum</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Maximum</b>	0.0	38.8	0.0	275.0	185.5	0.0	103.8	108.9	417.0	231.2	0.1	0.0
<b>Average</b>	0.0	1.3	0.0	8.9	9.1	0.0	5.5	6.2	24.2	9.7	0.0	0.0
<b>Total (acre-ft)</b>	0.0	77.0	0.0	547.6	544.2	0.0	339.3	354.1	1,486.0	577.9	0.2	0.0

**Appendix C2**  
**Daily Diversions to Spreading Basins on the Day Creek Tributary System**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
4	0.1	0.1	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.2	0.1
5	0.1	0.1	0.0	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
6	0.1	0.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.2	0.1
7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.1
9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1
10	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1
11	0.1	0.1	0.0	0.0	0.0	0.0	0.0	5.9	0.0	4.9	0.8	0.1
12	0.1	0.1	0.0	4.5	0.5	5.2	0.0	0.0	0.0	0.5	0.8	0.1
13	0.1	0.1	0.0	2.7	0.0	0.0	0.0	5.1	0.0	49.9	0.8	0.1
14	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.8	0.1
15	0.1	0.1	0.0	0.0	0.0	7.8	0.0	4.6	0.0	1.0	0.2	0.1
16	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.1
17	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.5	0.2	0.1
18	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.1
19	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
20	0.1	0.1	0.0	0.0	17.9	0.0	0.0	0.0	0.0	0.0	0.2	0.1
21	0.1	0.1	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.2	0.1
22	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
23	0.1	0.1	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.2	0.1
24	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
25	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.2	0.1
26	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6	0.2	0.1
27	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	1.0	0.2	0.1
28	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.1
29	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
30	0.1	0.1	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.2	0.1
31	0.1	0.1	--	0.0	--	0.0	0.0	--	1.6	--	0.2	--
<b>Total (cfs)</b>	2.7	2.7	0.8	48.1	22.9	13.7	16.7	17.8	33.5	69.3	10.9	2.3
<b>Minimum</b>	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
<b>Maximum</b>	0.1	0.6	0.0	40.2	17.9	7.8	9.1	5.9	18.3	49.9	1.0	0.1
<b>Average</b>	0.1	0.1	0.0	1.6	0.8	0.4	0.5	0.6	1.1	2.3	0.4	0.1
<b>Total (acre-ft)</b>	5.3	5.3	1.6	95.4	45.6	27.2	33.1	35.3	66.4	137.6	21.7	4.6

**Appendix C3**  
**Estimated Average Daily Discharge from Day Creek to the Santa Ana River**  
**with Watermaster Diversion**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.0	38.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	51.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	275.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	34.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	30.3	0.0	0.0
13	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	230.2	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.9	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	417.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	185.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	103.8	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	67.2	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	310.8	8.4	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.1	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
31	0.0	0.0	--	0.0	--	0.0	0.0	--	0.0	--	0.0	--
<b>Total (cfs)</b>	0.0	38.7	0.0	275.0	274.2	0.0	170.9	178.4	741.9	278.7	0.0	0.0
<b>Minimum</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Maximum</b>	0.0	38.7	0.0	275.0	185.5	0.0	103.8	108.9	417.0	230.2	0.0	0.0
<b>Average</b>	0.0	1.2	0.0	8.9	9.1	0.0	5.5	6.2	23.9	9.3	0.0	0.0
<b>Total (acre-ft)</b>	0.0	76.8	0.0	545.3	543.7	0.0	339.0	353.8	1,471.2	552.6	0.0	0.0

**Appendix D1**  
**The WLAM Estimated Daily Discharge from San Sevaine Creek to the Santa Ana River**  
**without Watermaster Diversions**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	1.4	64.8	0.6	0.5	0.5	1.0	0.8	0.8	1.0	6.7	0.8	0.4
2	1.3	1.0	0.6	0.5	0.5	0.9	0.8	0.8	0.9	1.2	1.0	0.4
3	1.3	0.8	0.5	0.5	0.6	0.9	0.8	0.7	0.8	1.2	1.1	0.4
4	1.3	0.8	0.5	0.7	1.3	0.9	0.8	0.7	0.8	1.2	1.0	0.4
5	1.3	0.8	0.7	2.5	80.1	0.8	0.8	0.7	0.7	1.1	0.9	0.5
6	1.3	0.9	0.7	373.6	1.1	0.8	0.8	0.7	0.7	1.1	0.9	0.5
7	1.3	0.9	0.6	1.0	39.9	0.8	0.8	0.7	0.8	1.0	0.8	0.4
8	1.3	0.9	0.5	0.7	1.1	0.8	0.8	0.6	0.8	1.0	0.8	0.4
9	1.2	1.0	0.5	0.5	1.0	0.8	0.8	0.6	0.7	0.9	0.8	0.4
10	1.2	1.0	0.6	0.5	1.0	0.8	0.8	0.6	0.7	0.9	0.8	0.4
11	1.1	1.0	0.7	0.5	1.0	0.8	0.8	0.6	0.7	1.3	0.8	0.4
12	1.2	1.1	0.6	0.5	1.1	1.0	0.7	4.7	0.7	41.6	0.8	0.3
13	1.2	1.0	0.8	0.5	3.9	1.0	0.7	0.8	0.7	2.6	0.7	0.3
14	1.3	1.0	0.8	0.5	1.0	0.9	0.7	1.3	0.7	307.9	0.7	0.3
15	1.3	1.0	0.8	0.5	1.0	0.9	0.7	1.1	0.7	2.0	0.7	0.4
16	1.2	1.0	0.8	0.6	1.0	0.9	0.8	130.4	0.7	1.9	0.7	0.3
17	1.2	1.0	0.8	0.5	1.0	1.0	0.8	0.9	3.1	1.6	0.7	0.3
18	1.1	1.0	0.7	0.5	1.0	1.0	0.8	0.8	585.9	1.5	0.7	0.3
19	1.0	1.0	0.6	0.5	1.0	1.0	0.7	0.8	15.2	1.4	0.7	0.3
20	1.0	1.0	0.5	0.5	2.2	1.0	0.7	0.8	1.3	1.2	0.6	0.3
21	0.9	0.9	0.5	0.6	266.7	1.0	1.4	0.7	1.4	1.1	0.6	0.3
22	1.0	0.9	0.5	0.5	1.3	1.0	131.2	0.7	1.4	1.1	0.5	0.3
23	0.9	0.9	0.6	0.5	1.1	1.0	1.3	0.7	1.3	1.1	0.6	0.2
24	0.9	0.9	0.7	0.6	1.1	1.0	86.0	0.6	1.3	1.1	0.6	0.2
25	0.9	0.9	0.8	0.7	1.1	0.9	1.0	0.6	2.2	0.9	0.7	0.2
26	0.8	0.9	0.8	0.7	1.0	0.9	0.9	0.6	369.7	28.5	0.7	0.2
27	0.9	0.8	0.7	0.6	1.0	0.9	0.8	0.8	1.6	5.6	0.7	0.2
28	0.9	0.8	0.6	0.6	1.0	0.9	0.8	100.7	1.3	1.0	0.6	0.2
29	0.9	0.8	0.5	0.6	1.0	0.9	0.8	0.9	1.3	0.8	0.5	0.2
30	0.9	0.8	0.5	0.5	1.0	0.9	0.8	--	1.3	0.8	0.5	0.2
31	1.4	0.6	--	0.5	--	0.8	0.8	--	1.3	--	0.5	--
<b>Total (cfs)</b>	34.9	92.2	19.1	392.5	417.6	28.2	241.2	255.4	1,001.7	421.3	22.5	9.6
<b>Minimum</b>	0.8	0.6	0.5	0.5	0.5	0.8	0.7	0.6	0.7	0.8	0.5	0.2
<b>Maximum</b>	1.4	64.8	0.8	373.6	266.7	1.0	131.2	130.4	585.9	307.9	1.1	0.5
<b>Average</b>	1.1	3.0	0.6	12.7	13.9	0.9	7.8	8.8	32.3	14.0	0.7	0.3
<b>Total (acre-ft)</b>	69.2	182.8	37.9	778.3	828.1	55.9	478.3	506.5	1,986.4	835.4	44.6	19.0

**Appendix D2**  
**Daily Diversions to Spreading Basins on the San Sevaine Creek Tributary System**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	1.5	1.1	1.2	1.9	1.3	1.1	1.0	4.6	1.3	1.0	0.8	1.5
2	1.4	1.3	1.3	1.1	1.4	1.1	1.0	1.8	1.3	2.1	0.8	1.5
3	1.4	1.1	1.3	1.1	0.8	1.1	1.9	1.0	1.3	2.3	0.8	1.5
4	1.4	0.7	1.2	1.2	27.2	1.1	2.8	1.0	1.3	2.3	0.8	1.5
5	1.4	0.4	1.5	106.3	1.0	1.1	1.0	1.0	1.4	2.1	0.8	1.5
6	1.4	0.4	1.4	2.0	24.0	1.1	1.4	1.0	1.4	2.1	0.8	1.5
7	1.4	0.4	1.5	2.0	1.2	1.1	1.0	1.6	1.4	1.3	0.8	1.5
8	1.4	0.4	1.5	2.0	1.4	1.3	1.0	2.8	1.4	1.0	2.8	1.5
9	1.4	0.4	1.5	1.6	1.1	1.5	1.0	3.4	1.0	1.0	2.6	1.5
10	1.4	0.4	1.5	1.3	1.1	1.1	1.0	4.0	0.7	1.0	2.3	1.5
11	1.4	0.4	1.5	1.3	0.9	1.1	1.0	11.5	1.1	52.7	2.1	1.5
12	1.4	0.4	1.5	1.3	11.8	38.8	1.4	2.1	1.1	1.0	2.1	1.5
13	1.4	0.4	1.5	1.3	0.8	1.1	1.0	47.6	1.1	126.6	1.8	1.5
14	1.0	0.4	1.5	1.3	1.0	1.1	1.0	4.0	1.1	1.0	1.6	1.5
15	1.0	0.4	1.5	1.3	1.1	18.0	1.0	36.8	1.1	1.0	0.8	1.5
16	1.0	0.4	1.5	1.3	1.1	1.2	1.0	3.0	1.3	1.0	0.8	1.5
17	1.0	0.4	1.5	1.7	1.4	1.0	1.0	4.0	179.3	1.0	0.8	1.5
18	1.0	0.4	1.5	1.9	1.1	1.0	1.0	2.2	2.4	1.0	0.8	0.9
19	1.0	0.4	1.5	2.0	1.1	1.0	1.0	1.0	1.4	1.0	0.8	0.2
20	1.4	0.4	1.5	2.0	65.7	1.0	1.4	1.0	0.9	1.0	0.8	0.2
21	1.4	0.9	1.5	2.0	1.6	1.0	77.4	1.7	1.2	1.0	0.8	0.2
22	1.4	0.9	1.5	1.9	1.6	1.0	1.4	2.2	1.4	1.0	0.8	0.2
23	1.4	0.9	1.5	1.7	1.6	1.0	64.4	3.0	1.4	1.0	0.8	0.2
24	1.4	0.6	1.5	1.6	1.3	1.0	1.3	2.6	1.3	1.0	0.8	0.2
25	1.4	0.4	1.5	1.8	1.1	1.0	1.0	1.3	110.3	1.0	0.8	0.2
26	1.4	0.6	1.5	1.6	1.1	1.0	1.0	1.0	1.3	36.8	0.8	0.6
27	1.4	1.2	1.5	1.5	1.1	1.0	1.0	31.0	1.1	1.0	0.8	0.7
28	1.4	1.3	1.5	1.3	1.1	1.0	1.0	0.8	1.2	1.0	0.8	0.6
29	1.4	1.0	1.5	1.3	1.1	1.0	1.0	0.8	1.9	1.0	0.8	1.1
30	1.4	0.9	1.5	1.3	1.1	1.0	1.0	--	1.6	1.0	0.8	1.5
31	57.1	1.0	--	1.3	--	1.0	1.0	--	9.7	--	0.8	--
<b>Total (cfs)</b>	96.6	19.2	42.9	152.9	158.7	87.6	175.4	179.3	335.2	248.3	34.4	31.8
<b>Minimum</b>	1.0	0.4	1.2	1.1	0.8	1.0	1.0	0.8	0.7	1.0	0.8	0.2
<b>Maximum</b>	57.1	1.3	1.5	106.3	65.7	38.8	77.4	47.6	179.3	126.6	2.8	1.5
<b>Average</b>	3.1	0.6	1.4	4.9	5.3	2.8	5.7	6.2	10.8	8.3	1.1	1.1
<b>Total (acre-ft)</b>	191.7	38.0	85.2	303.4	314.8	173.9	348.0	355.8	665.1	492.7	68.2	63.1

**Appendix D3**  
**Estimated Average Daily Discharge from San Sevaine Creek to the Santa Ana River**  
**with Watermaster Diversion**  
(cfs)

Day	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12
1	0.0	63.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
5	0.0	0.4	0.0	0.0	79.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0
6	0.0	0.5	0.0	371.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
7	0.0	0.5	0.0	0.0	38.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.7	0.0	0.0	0.0	0.0	0.0	2.6	0.0	40.6	0.0	0.0
13	0.0	0.6	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	306.9	0.0	0.0
15	0.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
16	0.2	0.6	0.0	0.0	0.0	0.0	0.0	127.4	0.0	0.9	0.0	0.0
17	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
18	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	583.5	0.5	0.0	0.0
19	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.4	0.0	0.1
20	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.1
21	0.0	0.0	0.0	0.0	265.1	0.0	0.0	0.0	0.2	0.1	0.0	0.1
22	0.0	0.0	0.0	0.0	0.0	0.0	129.8	0.0	0.0	0.1	0.0	0.1
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
24	0.0	0.3	0.0	0.0	0.0	0.0	84.7	0.0	0.0	0.1	0.0	0.0
25	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	368.4	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.6	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.9	0.1	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0
31	0.0	0.0	--	0.0	--	0.0	0.0	--	0.0	--	0.0	--
<b>Total (cfs)</b>	0.9	75.1	0.0	371.6	386.2	0.0	214.6	230.1	967.1	362.5	0.9	0.2
<b>Minimum</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Maximum</b>	0.3	63.7	0.0	371.6	265.1	0.0	129.8	127.4	583.5	306.9	0.3	0.1
<b>Average</b>	0.0	2.4	0.0	12.0	12.9	0.0	6.9	7.9	31.2	12.1	0.0	0.0
<b>Total (acre-ft)</b>	1.9	148.8	0.0	737.0	765.8	0.0	425.5	456.2	1,917.8	718.8	1.8	0.5