

[SUMMARY OF FINAL SUBMITTED VERSION]

PROGRESS REPORT BY PERMITTEE FOR 2014

Primary Owner: CHINO BASIN WATERMASTER
 Primary Contact: CHINO BASIN WATERMASTER

Date Submitted: 06/12/2015

Application Number: A031369
 Permit Number: 021225

Source(s) of Water	POD Parcel Number	County
DAY CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
DAY CREEK		San Bernardino
SAN SEVAINE CREEK		Riverside
SAN SEVAINE CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
DEER CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
DEER CREEK		Riverside
SAN SEVAINE CREEK		San Bernardino
CUCAMONGA CREEK		San Bernardino
SAN SEVAINE CREEK		San Bernardino
DAY CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
EAST ETIWANDA CREEK		San Bernardino
SAN ANTONIO CREEK		San Bernardino
EAST ETIWANDA CREEK		Los Angeles

MAX Direct Diversion Rate: 0 GPD
 MAX Collection to Storage: 68500 AC-FT
 Face Value: 68500 AC-FT

Permitted Use(s)	Acres	Direct Diversion Season	Storage Season
Municipal	26887		01/01 to 12/31

1. Permit Review	
I have reviewed my water right permit	Yes
2. Compliance with Permit Terms and Conditions	
I am complying with all terms and conditions	Yes

Description of noncompliance with terms and conditions	
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3. Changes to the Project	
Intake location has been changed	
Description of intake location changes	
Type of use has changed	
Description of type of use changes	
Place of use has changed	
Description of place of use changes	
Other changes	
Description of other changes	

4-6. Permitted Project Status	
Project Status	Not Complete
6a. Construction work has commenced	Yes
6b. Construction is completed	Yes
6c. Beneficial uses of water has commenced	Yes
6d. Project will be completed within the time period specified in the permit	Yes
6e. Explanation of work remaining to be done	On October 9, 2008, Permit 21225 (A031369) was issued, allowing a period within which to make beneficial use through December 31, 2057. Petitions for Extension of Time, to the same date of December 31, 2057, are pending for Permits 19895 (A028473) and 20753 (A028996). In addition to annual operation and maintenance work at storage facilities (groundwater recharge basins) and diversion points, current work includes expansion of the Turner Basin Facility to increase storage volume and maximum rate of diversion, within the permitted diversion rate.
6f. Estimated date of completion	12/31/2057

7. Purpose of Use	
Irrigation	30000 Acres Mixed Crop Types
Industrial	Mixed Manufacturing
Municipal	800000
Power	640 MW
Stockwatering	185,000 Dairy Cattle
Other	Commercial Supply and Landscape

8. Amount of Water Diverted and Used			
Month	Amount directly diverted (Acre-Feet)	Amount diverted or collected to storage	Amount used (Acre-Feet)

		(Acre-Feet)	
January	0	196	196
February	0	1274	1274
March	0	665	665
April	0	589	589
May	0	131	131
June	0	76	76
July	0	67	67
August	0	195	195
September	0	163	163
October	0	87	87
November	0	903	903
December	0	3820	3820
Total	0	8166	8166
Comments			

Water Transfers	
8e. Water transferred	No
8f. Quantity transferred (Acre-Feet)	
8g. Dates which transfer occurred	/ to /
8h. Transfer approved by	

Water Supply Contracts	
8i. Water supply contract	No
8j. Contract with	
8k. Other provider	
8l. Contract number	
8m. Source from which contract water was diverted	
8n. Point of diversion same as identified water right	
8o. Amount (Acre-Feet) authorized to divert under this contract	
8p. Amount (Acre-Feet) authorized to be diverted in 2014	
8q. Amount (Acre-Feet) projected for 2015	
8r. Exchange or settlement of prior rights	
8s. All monthly reported diversion claimed under the prior rights	
8t. Amount (Acre-Feet) of reported diversion solely under contract	

9. Maximum Rate of Diversion for each Month	
Month	Maximum Rate of Diversion (CFS)
January	153.1
February	1475.5
March	861
April	718.4
May	27.1
June	30
July	11.3
August	182.5
September	63.5
October	22.2
November	940.4

10. Storage					
Reservoir name	Spilled this year	Feet below spillway at maximum storage	Completely emptied	Feet below spillway at minimum storage	Method used to measure water level
Chino Groundwater Basin	No	0	No	0	Regional Groundwater Level Monitoring and Production Well Network

Conservation of Water	
11. Are you now employing water conservation efforts?	Yes
Description of water conservation efforts	The over 200 Appropriative, Non-Agricultural, and Agricultural Chino Basin groundwater producers have instituted many water conservation measures, ranging from recycled water conversion to public education notices.
12. Amount of water conserved	

Water Quality and Wastewater Reclamation	
13. During the period covered by this Report, did you use reclaimed water from a wastewater treatment facility, water from a desalination facility, or water polluted by waste to a degree which unreasonably affects the water for other beneficial uses?	Yes
14. Amount of reclaimed, desalinated, or polluted water used	

Conjunctive Use of Groundwater and Surface Water	
15. During the period covered by this Report, were you using groundwater in lieu of available surface water authorized under your permit?	No
16. Amounts of groundwater used	

Additional Remarks
<p>The Chino Basin Watermaster holds three permitted rights for diversion and recharge of stormwater within the Santa Ana River Watershed. Permit 19895 covers the Day Creek Project Facilities and allows the diversion of 15,000 acre-feet annually, from November 1 through April 30 of the succeeding year, to underground storage through recharge basins and spreading grounds along Day Creek. Permit 20753 covers the East Etiwanda Creek and San Sevaine Creek Facilities and allows the diversion of 27,000 acre-feet annually, from October 1 through May 1 of the succeeding year, to underground storage through recharge basins and spreading grounds along East Etiwanda and San Sevaine Creeks. Permit 21225 allows the annual diversion of 68,500 acre-feet, from January 1 to December 31, to underground storage through recharge basins and spreading grounds along Deer, Day, Etiwanda, San Sevaine, Chino, San Antonio, and Cucamonga Creeks. (For clarity, the notice listed Deer Creek as being in Riverside County, but it is located entirely within San Bernardino County.) Some facilities covered under Permits 19895 and 20753 are additionally permitted for additional recharge under Permit 21225. Chino Basin Watermaster conjunctively manages spreading ground and basin recharge pursuant to the three permits and believes the permits are best managed conjunctively. While several phases of groundwater recharge facility construction have been completed, pursuant to these three permits, the Chino Basin Stakeholders continue to implement additional improvements contemplated in the Recharge Master and Optimum Basin Managements Plans. Furthermore, since precipitation within the Chino Basin watershed is both flashy and subject to extreme variations in annual rainfall volumes (droughty), it is anticipated that diversion to storage may also vary dramatically and infrequently reach full permitted volumes. Pursuant to Permit 21225, Watermaster has through the year 2057 to make full beneficial use of the allowed storage volume, and similar time extensions are currently pending for permits 19895 and 20753, to facilitate conjunctive implementation and operation of the diversion and recharge basin and spreading ground network. With respect to Question 7, Watermaster's permits allow use for Industrial, Irrigation and Municipal purposes (and, in the case of Permit 21225, Stockwatering). During the calendar year, the total volume of groundwater extracted from the Chino Basin was approximately 157,322 acre-feet: including 104,279 acre-feet for municipal (Appropriators) use, 19,586 acre-feet for Agricultural (Crops and Stockwatering/Dairy), 29,931 acre-feet by Chino Basin Desalter Authority (26,115 acre-feet of which</p>

was made available for municipal use), 3,301 acre-feet for Non-Agricultural Overlying (Industrial) use and 225 acre-feet for energy production. With respect to Question 8, these volumes reflect the quantities of recharge diverted to underground storage pursuant to Permits 19895, 20753, and 21225, as Chino Basin Watermaster conjunctively manages all diversions to the recharge basin and spreading ground network. With respect to Question 9, the daily volume of water diverted at each facility was measured using pressure transducers and physical configurations, converted into an average 24-hour flow rate, summed, and the maximum for each month reported. With respect to Question 13, during the calendar year, the Chino Desalters extracted 29,931 acre-feet of TDS, nitrate, and TCE contaminated stored groundwater, producing 26,115 acre-feet of (reclaimed) product water. Additionally, 35,998 acre-feet of reclaimed (recycled) water were used; 10,997 acre-feet were recharged and 25,001 acre-feet were directly used.

Attachments		
File Name	Description	Size
20140930_Annual_Streamflow_Monitoring_Report_for_Permit_21225_F13_14.pdf	Annual Streamflow Monitoring Report for Water Rights Permit 21225, Fiscal 2013/14, with transmittal letter included	3 MB

Contact Information of the Person Submitting the Form	
First Name	Danielle
Last Name	Maurizio
Relation to Water Right	Primary Owner of Record
Has read the form and agrees the information in the report is true to the best of his/her knowledge and belief	Yes