

RESERVOIR RELEASES

1. Required Releases from Lake Skinner will be made at the following rates for the periods indicated.

A. During the months of June, July, August, September, and October the Required Release will be limited to the computed mean daily rate of Local Runoff into the Reservoir except as noted in Article II, Paragraph B (3), as described in Procedure 2.

B. During the months of November, December, January, February, March, April and May, after annual diversions for Fallbrook total 10,000 acre feet, the Required Release will be limited to the computed mean daily rate of Local Runoff into the Reservoir except as noted in Article II, Paragraph B (3), as described in Procedure 2.

C. During the months of November, December, January, February, March, April and May, when annual diversions for Fallbrook total less than 10,000 acre feet, the Required Release for a given Local Runoff will be as shown on Table 1 for days when Local Runoff is greater than the previous day and for all other days, except as noted in Article II, Paragraph B (3) and except as modified by paragraph D below.

D. The Required Release described in Paragraph C, above, for days when the Local Runoff exceeds that of the previous day, may be reduced proportionately to reflect development along Tocalota Creek, when the development of riparian land along Tocalota Creek begins to rely exclusively on

imported water supply; however, in no event can the Required Release be reduced to a level below that used on all other days. The proportionate reduction factor may be developed by dividing the length of the watercourse crossing the developed parcel as listed in Table 2 by the total length of watercourse from Lake Skinner downstream to the existing channelized portion of Tocalota Creek (23,683 feet). The Required Release may then be reduced by a rate developed by multiplying the factor times the appropriate release rate shown in Table 1. A parcel shall be deemed to be relying on an imported water supply upon issuance of a building permit by Riverside County.

Each year during October, the Watermaster will advise Metropolitan of the appropriate factor to use for the ensuing year.

E. Procedure 2 of Attachment E and the attached Record Sheet of Attachment E provides details regarding Required Releases. Such Required Releases will begin approximately four hours after the preceding 24-hour accumulation period.

Note: The Record Sheet is to be amended by adding a column for "Required Release", a column for "Fallbrook Diversion", a column for "Cumulative Fallbrook Diversions", and a column for Delivery Date. Cumulative Fallbrook Diversions will be reset at zero on October 30 of each year.

2. It should be noted that if the Required Release as determined in Procedure 2 rate exceeds Discharge Capacity, Metropolitan will continue to make Releases at the maximum Discharge Capacity and increase the duration of

the Release until volume equivalence is reached. It should also be noted that the spillway at the Dam is ungated. Any Reservoir elevation above the Dam's spillway crest elevation will automatically result in water being spilled until the Reservoir level returns to the spillway crest elevation. Metropolitan will not use elevations in excess of the spillway crest at any time in its calculations. Therefore, any temporary surcharge storage above the spillway crest will not be included in the computation of Reservoir Releases.

3. Metropolitan will observe a maximum Reservoir elevation during the rainy season which will keep 1,000 acre-feet of Storage Space below the Dam's spillway crest evacuated at all times except during flood events. The purpose of this is to preclude any spillway overflow in excess of that which would have naturally passed downstream.

4. It is impossible to identify precisely that portion of the Local Runoff which will enter Reservoir bank storage during the short period of time that Local Runoff is held in Lake Skinner. However, this quantity will be small and will be more than offset by the increase in Local Runoff due to the saturated lands adjacent to the Reservoir.

5. Fallbrook Diversion in Procedure 2 is defined as the flow to be delivered to Fallbrook thirty (30) days after runoff enters Lake Skinner (Runoff as calculated on Monthly Record Sheet minus Required Releases as shown on Table 1, calculated daily).

Procedure 2

Procedure for determining quantity and rate of Required Releases from Lake Skinner into Tocalota Creek.

A. Definitions:

Q = External accumulation in acre-feet

P = Precipitation on the lake surface in acre-feet

A = Actual Local runoff into Lake Skinner in acre-feet

Calculation:  $A = Q - P$

B. Calculation of Required Releases during the months of November, December, January, February, March, April and May prior to annual diversions for FPUD reaching 10,000 acre-feet.

After calculating "A" above, determine

Required Releases from Table 1.

C. Calculation of Required Releases during the months of November, December, January, February, March, April and May after diversions for FPUD exceed 10,000 acre-feet and during the months of June, July, August, September and October.

Required Releases = "A" as calculated above.

D. Rate of Required Releases:

(1) Release of runoff will begin at 1100 hours after readings and calculations are made relative to the period ending at 0700 hours.

(2) The rate of release will begin at 5 cfs or less and be incremented in 5 cfs or less steps until the rate (from Procedure 1) is attained and then will be continued constant until the volume A has been released.

(3) The rate of Release possible is shown on Graph 1. Metropolitan will release incidentally stored water at rates greater than rate R upon request from responsible authorities, within reasonable limits that will neither impair Metropolitan's use of the Project nor expose it to public liability.

TABLE 1

REQUIRED RELEASES FROM LAKE SKINNER

During months of November, December, January,  
February, March, April and May  
Prior to Annual Diversions for FPUD Reaching 10,000 Acre-Feet

REQUIRED RELEASE TO TUCALOTA CREEK			
Local Runoff Acre Feet/Day	Days When Local Runoff is Greater than the Previous Day	Acre Feet/Day	All Other Days Acre Feet/Day
(1)	(2)	(3)	
5	5		5
10	10		7
15	14		9
20	17		10
25	19		10.5
30	21		11
35	22.5		11.5
40	24		12
45	25.5		12.25
50	27		12.5
55	28		12.75
60	29		13
65	30		13.12
70	31		13.25
75	31.5		13.37
80	32		13.5
85	32.25		13.62
90	32.5		13.75
95	32.75		13.87
100	33		14
> 100	33		14

TABLE 2						
RIPARIAN OWNERS ALONG TUCALOTA CREEK						
DOWNSTREAM FROM LAKE SKINNER						
Parcel No.	Owner	Feet Below Lake Skinner		Length of Watercourse Feet	Area of Parcel Acres	Comments
958 04 024	MWD	0	3,500	3500	591.26	Parcel owned by MWD to Washington Street
958 09 022	MWD	3,500	4,914	1414	45.04	
958 09 021	Carvi Auto Body & Paint Inc.	4,914	5,267	353	4.99	
958 09 020	Mazoe Smith 2003 Trust	5,267	5,653	386	4.86	
958 09 019	Avila, Jessie/Leticia	5,653	5,910	257	4.73	
958 09 029	Cuevas, Roger/Cecilia	5,910	6,360	450	6.88	
958 09 030	Samuel Desantiago	6,360	6,746	386	6.89	
958 09 036	Larry A. Urban	6,746	6,971	225	20.4	Borders Buena Ventura Road
958 09 035	Larry A. Urban	6,971	8,064	1093	19.54	
958 17 006	Tessier, Anthony J.	8,064	8,385	321	4.68	
958 17 003	Hopkins, David Ray/Cherlyn Ann	8,385	8,835	450	4.43	
958 17 002	Carter, Robert B & Jane L.	8,835	9,221	386	4.79	
958 17 024	Munoz, Alfonso/Manuela	9,221	9,671	450	4.63	
958 17 023	Cornejo, Francisco; Wenzel, Hans F.	9,671	10,121	450	4.64	Borders Pourroy Road
958 14 009	Rancho Bella Vista LLC	10,121	11,792	1671	22.72	} TR 23418, Approved February 1989 } Expired February 1992
958 14 010	Rancho Bella Vista LLC	11,792	13,013	1221	36.82	
958 14 003	Borel, Alexander Ray, et al and Borel, Leonard Roy	13,013	14,427	1414	109.3	
958 14 002	Borel, Alexander A.	14,427	15,841	1414	40	Borders Leon Road - PP 17631 - In Dept. Review
958 27 012	Borel, Alex A	15,841	17,705	1864	40	
957 32 006	French Valley Commercial Partners	17,705	19,955	2250	150.29	} Reservoir - In Department Review
957 32 005	French Valley Commercial Partners	19,955	20,919	964	11.04	
957 35 002	Pulte Home Corp - May have been subdivided	20,919	23,683	2764	241.04	Approved April 2001, Expires March 2004

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA  
LAKE SKINNER -- TUCALOTA CREEK WATER RIGHTS  
MONTHLY RECORD SHEET

(month)	I Inflow (af)	O Outflow (af)	D Release (af)	E Evaporation (af)	S Storage Change (af)	Q External Water (af)	R Rate of Accumulation (cfs)	P Precipitation (af)	A Runoff (af)	LMIN Well Depth AV-28 (ft)	Lake Storage (af)	Required Release <sup>1</sup> , (af)	Fallbrook Diversion <sup>2</sup> , (af)	Cumulative Fallbrook Diversions <sup>3</sup> , (af)	Delivery Date <sup>4</sup>
	1														
	2														
	3														
	4														
	5														
	6														
	7														
	8														
	9														
	10														
	11														
	12														
	13														
	14														
	15														
	16														
	17														
	18														
	19														
	20														
	21														
	22														
	23														
	24														
	25														
	26														
	27														
	28														
	29														
	30														
	31														
<b>TOTAL</b>															
<b>Notes</b>	Q=S+O+D+E-I														
	R=O.504Q														
	A=Q-P														
	<sup>1</sup> "Required releases" are either Column 2 or 3 from Table 1, whichever is applicable based on whether or not runoff is increasing.														
	<sup>2</sup> "Fallbrook Diversion" is defined as (from the Monthly Record Sheet), the Column labeled "A Runoff" minus the Column labeled "Required Release" from Table 1, either Column 2 or 3, whichever is applicable.														
	<sup>3</sup> Cumulation of daily Fallbrook Diversion														
	<sup>4</sup> Calculation Date Plus 30 Days														