

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 7/31/2017

Time: 6:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	20.8
N2	Total SAR Deliveries	20.8
A1	SAR PH#3 Penstock (calc)	12.5
B1	BVMWC Highline	6.1
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	1.7
G2	North Fork Canal Weir	9.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	4.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	29.9
V	Total SWP Deliveries	29.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	4.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	19.8
U3	Total MC Deliveries	19.8
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	2.5
T3	MC #1 Flow (Cooley Hat)	19.8

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	19.4
Mentone Reservoir Level	20.5

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	19,408	166,000
Santa Ana River to Mill Creek	SAR-MC	1,462	0
Santa Ana River	SWP	5,971	0
Mill Creek	MC	5,384	99,700
Mill Creek	SWP	1,489	0
Redlands	SWP	33	0
Loma Linda	SWP	487	0
East Valley	SWP	6,484	0

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning, and not necessarily what is at that location thruout the day. San Bernardino Valley Municipal is spreading in Mill Creek and at the Santa Ana Low.

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State Water Project											
Inflows			Deliveries								
A	BBMWD In-lieu	4.0	H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	18.7	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	6.0
D	Purchased Water	25.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.2
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	4.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 29.9	
F	Recharge Project	0.0									
G	Total SWP Inflows 29.9										

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	9.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	1.7
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	4.3
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	2.2
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	12.5
K1	PH3# Penstock (SCADA)	13.9

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	6.1
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	6.1
Other		
J1	Big Bear Lake Release	0.8
L1	SCE SAR AVM (SCADA)	21.7
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	2.2
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	2.2
Observation at SOD		
W	Observation at SOD	N/A
X	SOD Reservoir Elevation (scada)	N/A
Y	Debris Pool Elevation	N/A

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	12.5
B1	BVMWC Highline	6.1
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	2.2
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	20.8
Edison Generation		
SAR PH#1 Generating		☒
SAR PH#3 Generating		☒

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	9.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	1.7	W1	Redlands Aqueduct / Sandbox	4.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	1.7	L2	SBVWCD Parshall Flume	1.7	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	10.7		Parshall Flume (SCADA)	2.5	B1	BVMWC Highline	6.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	6.1	I2	Tailrace Pipeline	10.7
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	1.7
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	3.6	minus		
						C2	Irrigation	2.5	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	1.7
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	20.8

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	6.1	E3	M/C #1 Penstock Flow	19.8
B3	M/C #3 Penstock	13.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	19.8			

Mill Creek Deliveries

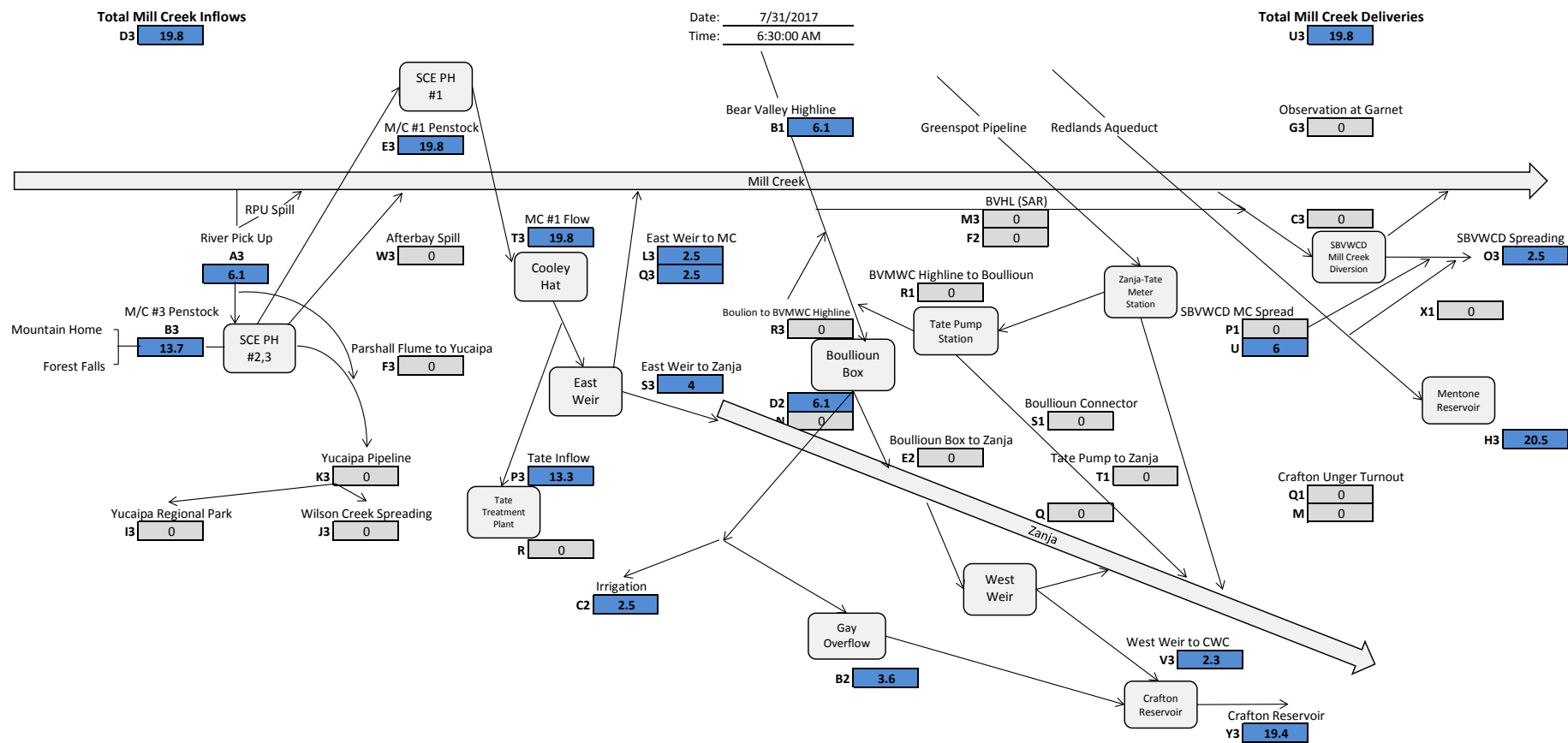
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other	
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	13.3	C3	SBVWCD Mill Creek Diversion	0.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	2.5	T3	Mill Creek #1 Flow (Cooley Hat)	19.8
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	4.0	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading			T3	MC #1 Flow (Cooley Hat)	19.8	U3	Total MC Deliveries	19.8
H3	Mentone Reservoir Level	20.5	R3	Boullion to BVMWC Highline	0.0	V3	Zanja West Weir to CWC Canal	2.3
W3	Mill Creek PH #2,3 Afterbay Spill	0.0	Y3	Crafton Reservoir Level (21.3)	19.4			

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	2.5
M3	BVHL (SAR)	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	2.5

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	10.1		I4	19,407.6	166,000	I4	18,505.0	166,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	1,461.7		O4	1,299.1		
B4	Santa Ana River	SWP	F4	111.3		J4	5,971.3		J4	5,971.3		
C4	Mill Creek	MC	G4	14.9		K4	5,383.7	99,700	K4	5,155.2	99,700	
D4	Mill Creek	SWP	H4	23.6		L4	1,489.2		L4	1,489.2		
	Redlands	SWP		0.0			32.9			0.0		
	Loma Linda	SWP		0.0			486.6			1,939.8		
	East Valley	SWP		0.0			6,484.4			2,816.0		
SAR Passing Cuttle Weir (cfs)		0	Share of Lost SAR Flow			0	Estimate SAR flow (cfs)		0	Estimate SAR Recharge (AF)		0
Mill Creek Passing Garnet (cfs)		0	Share of Lost Mill Creek Flow			0	Estimate Mill Creek flow (cfs)		0	Estimate Mill Creek Recharge (AF)		0
Flow in the River Above Alabama		0	Flowing Beyond Alabama			0	Total River Flow (cfs)		0	Total River Recharge (AF)		0

Santa Ana River - Mill Creek Cooperative Water Project
Mill Creek Stations



Santa Ana River - Mill Creek Cooperative Water Project Santa Ana Stations

