Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.30.2009
Time: 6:15

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	18.1	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	26.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.3	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.5
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	44.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.6

Santa Ana River

	SOD Reservoir Elevation	NA		**Debris Pool Elevation**	2200.00			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	9.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.8	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.6
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.2
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	3.8
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	3.8
(Σ)G1	**Total SAR Inflows**	15.5	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.23	W1	Redlands Aqueduct Weir	11.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.1	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.3	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.5

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.1	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.6
(+) B3	M/C #3 Penstock	8.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.1	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.5
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.1
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.1
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	5.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.0	Y3	Crafton Reser. Level (21.3)	20.2

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4			I4		10,000
B4	Santa Ana River	SWP	F4	53		J4	1,510	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.29.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	17.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	26.6	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.3	(+)R	[1]Tate Treatment Plant	4.6
(+)D	Purchased Water	26.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.1	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	44.4	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.4

Santa Ana River

	SOD Reservoir Elevation	NA		**Debris Pool Elevation**	2200.00			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.6
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.1
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	3.7
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	3.7
(Σ)G1	**Total SAR Inflows**	13.5	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.23	W1	Redlands Aqueduct Weir	9.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.7	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	13.6	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	13.5

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.1	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.3
(+) B3	M/C #3 Penstock	8.0	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.1	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.1
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.1
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	5.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.6	Y3	Crafton Reser. Level (21.3)	18.1

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4			I4		10,000
B4	Santa Ana River	SWP	F4	53		J4	1,457	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.28.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	18.4	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.0	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	26.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.1	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	4.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	44.8	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.8

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**	

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.4	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.0
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.4
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.4
(Σ)G1	**Total SAR Inflows**	14.2	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.23	W1	Redlands Aqueduct Weir	9.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.9	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	14.3	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	14.2

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	2.2	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	9.9
(+) B3	M/C #3 Penstock	7.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	9.9	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	0.0
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	9.9
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	9.9
G3	Observation at Garnet Bridge	3.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.3
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.4	Y3 Crafton Reser. Level (21.3)	17.4

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	51		J4	1,404	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.27.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	23.3	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.8	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	8.2	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	24.8	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.1	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	4.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	48.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	48.1

Santa Ana River

	SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	8.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.1	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.3
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.8
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.1
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.1
(Σ)G1	**Total SAR Inflows**	16.1	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.23	W1	Redlands Aqueduct Weir	10.3	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.4	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	13.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.1

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.8	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.0
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.6	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.6
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.6
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.6
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	5.6
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.4	Y3	Crafton Reser. Level (21.3)	17.5

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	49		J4	1,353	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.26.2009
Time: 6:45

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	23.0	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	8.0	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	25.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	4.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	48.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	48.0

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	5.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.2	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.2
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.2
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.2
(Σ)G1	**Total SAR Inflows**	13.6	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.23	W1	Redlands Aqueduct Weir	7.7	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	5.6	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	11.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	13.6

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.8	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.8
(+) B3	M/C #3 Penstock	7.6	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.4	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.6
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.4
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.4
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	6.7
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.3	Y3 Crafton Reser. Level (21.3)	17.1

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	148		J4	1,304	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Revised 10/6/09

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.23.2009
Time: 6:15

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	22.6	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.8	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	3.3	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	47.3	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	47.3

Santa Ana River

	SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	8.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.1
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.5
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.5
(Σ)G1	**Total SAR Inflows**	15.9	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.97	W1	Redlands Aqueduct Weir	11.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.3	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	13.9	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.9

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.9	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.3
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.7	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.4
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.7
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.7
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	4.4
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.1	Y3	Crafton Reser. Level (21.3)	15.3

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	49		J4	1,156	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.22.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	22.3	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.7	(+)R	[1]Tate Treatment Plant	4.4
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	5.9	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	3.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	47.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	47.0

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	8.9	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.4
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.1
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.5
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.5
(Σ)G1	**Total SAR Inflows**	16.1	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.97	W1	Redlands Aqueduct Weir	10.9	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	6.9	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	12.9	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.1

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.0	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.1
(+) B3	M/C #3 Penstock	7.6	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.6	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.5
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.6
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.6
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	5.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.5	Y3 Crafton Reser. Level (21.3)	15.6

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	49		J4	1,107	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.21.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	22.3	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.7	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.9
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	4.2	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	47.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	47.0

Santa Ana River

	SOD Reservoir Elevation	**NA**	**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.3	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.5
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.3
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.3
(Σ)G1	**Total SAR Inflows**	14.7	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.96	W1	Redlands Aqueduct Weir	9.7	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	6.9	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	12.9	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	14.7

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.0	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.5
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.8	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.3
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.8
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.8
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	6.1
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.5	Y3	Crafton Reser. Level (21.3)	16.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4			I4		10,000
B4	Santa Ana River	SWP	F4	49		J4	1,058	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.20.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	21.6	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.0	(+)R	[1]Tate Treatment Plant	4.9
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	5.9	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	3.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.3	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.3

Santa Ana River

	SOD Reservoir Elevation	NA					**Debris Pool Elevation**	2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.3	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.6	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.8
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.6
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.6
(Σ)G1	**Total SAR Inflows**	14.6	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.97	W1	Redlands Aqueduct Weir	9.3	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.6	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	14.3	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	14.6

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.1	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.3
(+) B3	M/C #3 Penstock	7.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.8	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.5
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.8
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.8
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	6.4
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	19.7	Y3	Crafton Reser. Level (21.3)	16.1

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	49		J4	1,009	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.19.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	21.3	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.2	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	25.2	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.2
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	5.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.5

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**	

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.6	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.0
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.0
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.0
(Σ)G1	**Total SAR Inflows**	15.3	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.97	W1	Redlands Aqueduct Weir	9.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	12.5	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	3.8	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.6
(+) B3	M/C #3 Penstock	7.9	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	11.7	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	1.1
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	11.7
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	11.7
G3	Observation at Garnet Bridge	1.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	4.4
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	19.1	Y3	Crafton Reser. Level (21.3)	15.7

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	150		J4	960	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.16.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	17.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.7	(+)R	[1]Tate Treatment Plant	3.4
(+)D	Purchased Water	25.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	1.4
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	43.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	43.2

Santa Ana River

	SOD Reservoir Elevation	NA		**Debris Pool Elevation**	2200.00			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	11.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.6
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.5
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.5
(Σ)G1	**Total SAR Inflows**	18.3	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.96	W1	Redlands Aqueduct Weir	14.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	12.6	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	17.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	18.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.4	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.5
(+) B3	M/C #3 Penstock	7.9	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.3	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.3
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.3
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.6	Y3	Crafton Reser. Level (21.3)	21.3

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4			I4		10,000
B4	Santa Ana River	SWP	F4	50		J4	810	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.15.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	17.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.7	(+)R	[1]Tate Treatment Plant	3.4
(+)D	Purchased Water	25.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	1.4
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	43.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	43.2

Santa Ana River

				SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	11.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.6
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.5
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.5
(Σ)G1	**Total SAR Inflows**	18.3	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.04	W1	Redlands Aqueduct Weir	14.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	12.6	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	17.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.7	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	18.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.4	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.5
(+) B3	M/C #3 Penstock	7.9	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.3	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.3
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.3
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.6	Y3	Crafton Reser. Level (21.3)	21.3

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	50		J4	760	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.14.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	22.3	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.8	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	8.9	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	24.8	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	1.2
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	2.4	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	47.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	47.1

Santa Ana River

	SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**			

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	11.9	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.6	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.6
(+)D1	BVMWC River PU (USGS)	2.8	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.6
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.6
(Σ)G1	**Total SAR Inflows**	19.3	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.85	W1	Redlands Aqueduct Weir	14.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	11.8	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	17.4	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.8	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	19.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.7	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	12.1
(+) B3	M/C #3 Penstock	8.4	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	15.1	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.0
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	15.1
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	15.1
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	4.2
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.0	Y3	Crafton Reser. Level (21.3)	18.5

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	50		J4	700	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.13.2009
Time: 6:45

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	20.6	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.2	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.9	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	25.2	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	1.5
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	2.4	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	45.8	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	45.8

Santa Ana River

	SOD Reservoir Elevation	**NA**					**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	9.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.2
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.5
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.7
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.7
(Σ)G1	**Total SAR Inflows**	16.5	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	0.85	W1	Redlands Aqueduct Weir	11.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.4	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	13.6	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.5

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.4	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.4
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.2	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.2
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.2
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.3
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.1	Y3	Crafton Reser. Level (21.3)	17.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	201		J4	650	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.9.2009
Time: 6:00

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	12.7	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.8	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	5.9	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	38.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	38.1

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**	

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	7.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.3
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.4
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.7
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.7
(Σ)G1	**Total SAR Inflows**	15.1	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.24	W1	Redlands Aqueduct Weir	10.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.7	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	13.2	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.1

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.2	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.3
(+) B3	M/C #3 Penstock	7.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.9	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.6
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.9
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.9
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	1.9
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.1	Y3 Crafton Reser. Level (21.3)	17.0

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4		10,000
B4	**Santa Ana River**	**SWP**	F4	50		J4	449	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.8.2009
Time: 6:35

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	12.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.8	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.0
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	38.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	38.2

Santa Ana River

	SOD Reservoir Elevation	**NA**					**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	8.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.8
(+)D1	BVMWC River PU (USGS)	2.6	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.7
(+)F1	Greenspot Spill	0.0	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	4.7
(Σ)G1	**Total SAR Inflows**	15.5	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.24	W1	Redlands Aqueduct Weir	11.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	7.7	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	13.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.5

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.2	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.0
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.0	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.0
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.0
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.0
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	2.1
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.0	Y3	Crafton Reser. Level (21.3)	18.5

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4	8,456	10,000
B4	**Santa Ana River**	**SWP**	F4	51		J4	1,380	
C4	**Mill Creek**	**MC**	G4			K4	4,450	8,000
D4	**Mill Creek**	**SWP**	H4			L4	555	

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Revised 10/6/09

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.7.2009
Time: 6:45

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	16.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.6	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.7	(+)R	[1]Tate Treatment Plant	1.5
(+)D	Purchased Water	25.6	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.1	(+)T	[1]Newport for BVMWC	1.2
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	42.4	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	42.4

Santa Ana River

SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**	

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	0.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.3	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.4
(+)D1	BVMWC River PU (USGS)	10.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.3
(+)F1	Greenspot Spill	7.6	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.3
(Σ)G1	**Total SAR Inflows**	15.5	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.24	W1	Redlands Aqueduct Weir	10.4	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	0.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	13.0	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.5

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.2	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.1
(+) B3	M/C #3 Penstock	7.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.9	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.9
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.9
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.0
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	22.0	Y3 Crafton Reser. Level (21.3)	20.1

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4	8,456	10,000
B4	**Santa Ana River**	**SWP**	F4	50		J4	1,329	
C4	**Mill Creek**	**MC**	G4			K4	4,450	8,000
D4	**Mill Creek**	**SWP**	H4			L4	555	

Comments:

1) Source = SCADAVIEW
2) State Water Inflows, (Σ)G = A+B+C+D+E+F
3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U
4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+J2+K2+V1+W1+Y1-I1-D1
5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2
6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2
7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)
8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)
9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1
10) Total SAR Deliveries, (Σ)N2 = V1+W1+Y1+Z2+B1+I2+L2+C1-J2-K2-I1
11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3
12) M/C #1 Penstock Flow, (Σ)E3 = T3
13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3
14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3
15) Yucaipa Pipeline, (Σ)K3 = I3 + J3
16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3
17) Seven Oaks Dam Release = Z1 = D1 - F1
18)Tailrace Pipeline, (Σ)I2 = G2+H2+J2+K2
19)BVMWC Highline, (Σ)B1 = A2+B2+C2+E2+F2
20)Greenspot Pipline, (Σ)U1 =M1+N1+O1+P1+Q1+R1+S1+T1
21)SBVWCD Parshall Flume, (Σ)L2 = H1+K2
22)PH#3 PENSTOCK (Calc)

a) Per fish release from Big Bear Lake.

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.6.2009

Time: 0645

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	21.2	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	25.2	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.7	(+)R	[1]Tate Treatment Plant	0.0
(+)D	Purchased Water	25.2	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.0	(+)T	[1]Newport for BVMWC	1.2
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	5.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.4	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.4

Santa Ana River

				SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	0.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.3	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.7
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.6
(+)D1	BVMWC River PU (USGS)	11.4	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.3
(+)F1	Greenspot Spill	8.8	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.3
(Σ)G1	**Total SAR Inflows**	16.7	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a]Big Bear Lake Release	1.24	W1	Redlands Aqueduct Weir	10.7	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	0.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	12.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.7

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	6.1	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.1
(+) B3	M/C #3 Penstock	7.8	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.9	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.8
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.9
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.9
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	6.1
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			I3	Mentone Reser. Level (23.0)	21.8	Y3	Crafton Reser. Level (21.3)	19.3

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4	8,456	10,000
B4	**Santa Ana River**	**SWP**	F4	50		J4	1,279	
C4	**Mill Creek**	**MC**	G4			K4	4,450	8,000
D4	**Mill Creek**	**SWP**	H4			L4	555	

Comments:

1) Source = SCADAVIEW

a) Per fish release from Big Bear Lake.

2) State Water Inflows, (Σ)G = A+B+C+D+E+F

3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U

4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+W1+Y1+E1-I1-D1a

5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2

6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2

7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)

8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)

9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1

10) Total SAR Deliveries, (Σ)N2 = U1+V1+W1+D1-I1+B1+I2+L2

11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3

12) M/C #1 Penstock Flow, (Σ)E3 = T3

13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3

14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3

15) Yucaipa Pipeline, (Σ)K3 = I3 + J3

16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3

17) Seven Oaks Dam Release = Z1 = D1 - F1

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.5.2009

Time: 0650

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	**25.4**	(+)H	[1]EVWD Treatment Plant	**0.0**	(+)P	[1]SARC West	**0.0**
(+)B	Muni test @ Greenspot Sta.	**0.0**	(+)I	[1]Santa Ana Low Turnout	**25.0**	(+)Q	[1]Zanja	**0.0**
(+)C	Exchange Water	**0.0**	(+)J	[1]Northfork Canal	**7.6**	(+)R	[1]Tate Treatment Plant	**3.5**
(+)D	Purchased Water	**25.0**	(+)K	[1]Edwards Canal	**0.0**	(+)S	[1]SBCFCD Grove	**1.3**
(+)E	Redlands Aqueduct Leakage	**0.0**	(+)L	[1]Redlands Aqueduct	**8.0**	(+)T	[1]Newport for BVMWC	**0.0**
(+)F	Recharge Project	**0.0**	(+)M	[1]Crafton Unger Lane	**5.0**	(+)U	[1]M/C spreading @ ZT	**0.0**
(Σ)G	**Total SWP Inflows**	**50.4**	(+)N	[1]BVMWC Boullioun Box	**0.0**	(Σ)V	**Total SWP Deliveries**	**50.4**

Santa Ana River

SOD Reservoir Elevation **NA** **Debris Pool Elevation** **2200.00**

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	**0.0**	(+)M1	SBCFCD Grove	**0.0**	(+) A2	Newport	**0.0**
(+)B1	BVMWC Highline	**5.5**	(+)N1	BVMWC Highline	**0.0**	(+)B2	*Gay Overflow*	**3.9**
(+)C1	Greenspot Pipeline	**0.0**	(+)O1	Newport for BVMWC	**0.0**	(+)C2	*Irrigation*	**1.6**
(+)D1	BVMWC River PU (USGS)	**9.8**	(+)P1	SBVWCD Mill Creek Spreading	**0.0**	(+)(Σ)D2	Boullioun Box Weir	**5.5**
(+)F1	Greenspot Spill	**7.2**	(+)Q1	Crafton WC Unger Lane	**0.0**	(+) E2	Boullioun Box to Zanja	**0.0**
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	**0.0**	(+) F2	SBVWCD Mill Creek Spread	**0.0**
(+)E1	Main River Gage (USGS)	**0.0**	(+)S1	Crafton WC Boullioun	**0.0**	(Σ) B1	**BVMWC Highline**	**5.5**
(Σ)G1	**Total SAR Inflows**	**15.3**	(+)T1	Tate Pump Station to Zanja	**0.0**	(+) G2	Northfork Canal Weir	**0.0**
H1	SBVWCD Diversion	**0.0**	(Σ) U1	Greenspot Pipeline	**0.0**	(+) H2	Edwards Canal	**0.9**
I1	Redlands Tunnel	**0.2**	(+)V1	PH #3 Afterbay Spill Loss to SAR	**0.0**	(+) J2	Tailrace Valve	**0.0**
J1	[a]Big Bear Lake Release	**1.21**	W1	Redlands Aqueduct Weir	**9.1**	(+)K2	Northfork Parshall Flume	**0.0**
K1	PH#3 Penstock (SCADA)	**0.0**	X1	SBVWCD Mill Creek Spreading	**0.0**	(Σ) I2	**Tailrace Pipeline**	**0.9**
L1	SCE SAR AVM (SCADA)	**12.4**	Y1	Redlands Sandbox Spill	**0.0**	(+) L2	**SBVWCD Parshall FlumeTo Basins**	**0.0**
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	**0.0**	(Σ) C1	Greenspot Pipeline	**0.0**
						(Σ)N2	[1)]**Total SAR Deliveries**	**15.3**

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	**6.1**	(+)I3	Yucaipa Regional Park	**0.0**	(+)P3	Tate Inflow	**11.1**
(+) B3	M/C #3 Penstock	**7.6**	(+)J3	Wilson Creek Spreading	**0.0**	(+)Q3	East Weir to Mill Creek	**0.0**
(+) C3	SBVWCD Mill Creek Diversion	**0.0**	(Σ)K3	**Yucaipa Pipeline**	**0.0**	(+)R3	Boullioun to BVMWC Highline	**0.0**
(Σ) D3	**Total MC Inflows**	**13.7**	(+)L3	East Weir (MC)	**0.0**	(+)S3	East Weir to Zanja	**2.6**
E3	M/C #1 Penstock Flow	**0.0**	(+)M3	BVHL (SAR)	**0.0**	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	**13.7**
F3	Stream Parshall Flume to Yucaipa	**0.0**	(+)N3	Mill Creek Diversion (MC)	**0.0**	U3	**Total MC Deliveries**	**13.7**
G3	Observation at Garnet Bridge	**0.0**	(Σ)O3	**SBVWCD Spreading**	**0.0**	V3	Zanja West Weir to CWC Canal	**5.4**
H3						W3	Mill Creek PH #2,3 Afterbay Spill	**0.0**
			I3	Mentone Reser. Level (23.0)	**22.8**	Y3	Crafton Reser. Level (21.3)	**17.0**

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4	**8,456**	**10,000**
B4	**Santa Ana River**	**SWP**	F4	**150**		J4	**1,229**	
C4	**Mill Creek**	**MC**	G4			K4	**4,450**	**8,000**
D4	**Mill Creek**	**SWP**	H4			L4	**555**	

Comments:

1) Source = SCADAVIEW

a) Per fish release from Big Bear Lake.

2) State Water Inflows, (Σ)G = A+B+C+D+E+F

3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U

4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+W1+Y1+E1-I1-D1a

5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2

6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2

7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)

8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)

9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1

10) Total SAR Deliveries, (Σ)N2 = U1+V1+W1+D1-I1+B1+I2+L2

11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3

12) M/C #1 Penstock Flow, (Σ)E3 = T3

13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3

14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3

15) Yucaipa Pipeline, (Σ)K3 = I3 + J3

16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3

17) Seven Oaks Dam Release = Z1 = D1 - F1

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.2.2009

Time: 0600

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	22.2	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.4
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	8.0	(+)T	[1]Newport for BVMWC	0.7
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	2.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.9	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.9

Santa Ana River

SOD Reservoir Elevation NA — **Debris Pool Elevation** 2200.00

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	0.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.4	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.2
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.2
(+)D1	BVMWC River PU (USGS)	7.8	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.4
(+)F1	Greenspot Spill	5.2	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.4
(Σ)G1	**Total SAR Inflows**	13.2	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.9
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a]Big Bear Lake Release	1.18	W1	Redlands Aqueduct Weir	7.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	0.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	10.2	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	13.2

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.7	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.3
(+) B3	M/C #3 Penstock	8.2	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	13.9	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.6
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.9
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.9
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.5
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			I3	Mentone Reser. Level (23.0)	21.2	Y3	Crafton Reser. Level (21.3)	18.9

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	Santa Ana River	SAR	E4			I4	8,456	10,000
B4	Santa Ana River	SWP	F4	49		J4	1,079	
C4	Mill Creek	MC	G4			K4	4,450	8,000
D4	Mill Creek	SWP	H4			L4	555	

Comments:

1) Source = SCADAVIEW

a) Per fish release from Big Bear Lake.

2) State Water Inflows, (Σ)G = A+B+C+D+E+F

3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U

4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+W1+Y1+E1-I1-D1a

5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2

6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2

7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)

8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)

9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1

10) Total SAR Deliveries, (Σ)N2 = U1+V1+W1+D1-I1+B1+I2+L2

11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3

12) M/C #1 Penstock Flow, (Σ)E3 = T3

13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3

14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3

15) Yucaipa Pipeline, (Σ)K3 = I3 + J3

16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3

17) Seven Oaks Dam Release = Z1 = D1 - F1

Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 10.1.2009

Time: 0645

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	21.8	(+)H	[1]EVWD Treatment Plant	0.0	(+)P	[1]SARC West	0.0
(+)B	Muni test @ Greenspot Sta.	0.0	(+)I	[1]Santa Ana Low Turnout	24.7	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.4	(+)R	[1]Tate Treatment Plant	3.5
(+)D	Purchased Water	24.7	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	1.3
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	8.0	(+)T	[1]Newport for BVMWC	0.6
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	2.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.5

Santa Ana River

				SOD Reservoir Elevation	**NA**		**Debris Pool Elevation**	**2200.00**
	Inflows	Flow Rate (cfs)		**Deliveries**	Flow Rate (cfs)		**Deliveries**	Flow Rate (cfs)
(+)A1	PH #3 Penstock (CALC)	0.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.3	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.5
(+)D1	BVMWC River PU (USGS)	7.4	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.3
(+)F1	Greenspot Spill	4.8	(+)Q1	Crafton WC Unger Lane	0.0	(+) E2	Boullioun Box to Zanja	0.0
(-)D1a	If BV p/u gated,divert to SAR= "Y"		(+)R1	BVMWC Highline to Boullioun	0.0	(+) F2	SBVWCD Mill Creek Spread	0.0
(+)E1	Main River Gage (USGS)	0.0	(+)S1	Crafton WC Boullioun	0.0	(Σ) B1	**BVMWC Highline**	5.3
(Σ)G1	**Total SAR Inflows**	12.7	(+)T1	Tate Pump Station to Zanja	0.0	(+) G2	Northfork Canal Weir	0.0
H1	SBVWCD Diversion	0.0	(Σ) U1	Greenspot Pipeline	0.0	(+) H2	Edwards Canal	0.0
I1	Redlands Tunnel	0.2	(+)V1	PH #3 Afterbay Spill Loss to SAR	0.0	(+) J2	Tailrace Valve	0.0
J1	[a)] Big Bear Lake Release	1.18	W1	Redlands Aqueduct Weir	7.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	0.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	9.1	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	2.6	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	12.7

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.7	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.8
(+) B3	M/C #3 Penstock	8.7	(+)J3	Wilson Creek Spreading	0.0	(+)Q3	East Weir to Mill Creek	0.0
(+) C3	SBVWCD Mill Creek Diversion	0.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	14.4	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.6
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	14.4
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	14.4
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	3.7
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			I3	Mentone Reser. Level (23.0)	21.5	Y3	Crafton Reser. Level (21.3)	19.9

SBVWCD Recharge

	Location	Type		Previous Day (AF)			WY To Date (AF)	Target
A4	**Santa Ana River**	**SAR**	E4			I4	8,456	10,000
B4	**Santa Ana River**	**SWP**	F4	49		J4	1,030	
C4	**Mill Creek**	**MC**	G4			K4	4,450	8,000
D4	**Mill Creek**	**SWP**	H4			L4	555	

Comments:

1) Source = SCADAVIEW

a) Per fish release from Big Bear Lake.

2) State Water Inflows, (Σ)G = A+B+C+D+E+F

3) State Water Deliveries, (Σ)V = H+I+J+K+L+M+N+P+Q+R+S+T+U

4) PH#3 Penstock (Calc), (Σ)A1=V1+G2+H2+W1+Y1+E1-I1-D1a

5) Bear Valley Highline, (Σ)B1 = A2+D2+E2+F2

6) Total SAR Inflows = SAR Deliveries, (Σ)G1 = (Σ)N2

7) Total SAR Inflows, (Σ)G1 = A1+B1+C1+D1+E1, if BVMWD River Pickup not gated closed & is directed to ACE PP# 3 Afterbay (F1 now part of D1 value)

8) Total SAR Inflows, (Σ)G1 = A1+B1+C1+E1, if BVMWD River Pickup gated closed ("Y" for "yes") water is bypassed to SAR (F1 now part of D1 value)

9) Greenspot Pipeline, (Σ) U1 = M1 +N1+O1+P1+Q1+R1+S1+T1

10) Total SAR Deliveries, (Σ)N2 = U1+V1+W1+D1-I1+B1+I2+L2

11)Total Mill Creek Inflows, (Σ)D3 = A3+B3+C3

12) M/C #1 Penstock Flow, (Σ)E3 = T3

13) M/C #1 Penstock Flow, (Σ)E3 = A3 + B3

14) SBVWCD Mill Cr Diversion (Σ)C3 = E3+F3

15) Yucaipa Pipeline, (Σ)K3 = I3 + J3

16) SBVWCD Spreading, (Σ)O3 = N3 + M3 + L3

17) Seven Oaks Dam Release = Z1 = D1 - F1