Santa Ana River-Mill Creek Cooperative Water Project

Daily Flow Report

Date: 11/30/2009
Time: 6:45

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	26.1	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.4	(+)R	[1]Tate Treatment Plant	4.6
(+)D	Purchased Water	0.0	(+)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	0.0
(+)F	Recharge Project	26.1	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	43.9	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	43.9

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)	11.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.4	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.5
(+)D1	BVMWC River PU (USGS)	3.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	5.4
(+)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**	5.4
(Σ)G1	**Total SAR Inflows**	20.3	(+)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	0.76	W1	Redlands Aqueduct Weir	14.2	(+)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)	16.2	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	20.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	0.0	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	5.3
(+) 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	5.0	(Σ)K3	**Yucaipa Pipeline**	0.0	(+)R3	Boullioun to BVMWC Highline	0.0
(Σ) D3	**Total MC Inflows**	12.6	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	2.3
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	7.6
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	5.0	U3	**Total MC Deliveries**	7.6
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	5.0	V3	Zanja West Weir to CWC Canal	1.5
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			I3	Mentone Reser. Level (23.0)	20.7	Y3	Crafton Reser. Level (21.3)	13.1

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			J4	1,115	1,000
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4	35		L4	210	1,000
	SBVMWD	**SWP**		26			627	
	WMWD	**SWP**					2,459	

Comments:

1) Source = SCADAVIEW
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
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: 11/25/2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	21.1	(+)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	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	8.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	14.9	(+)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	1.1
(+)F	Recharge Project	26.4	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	14.9
(Σ)G	**Total SWP Inflows**	62.4	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	62.4

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)	8.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.9	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.1
(+)D1	BVMWC River PU (USGS)	3.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.9
(+)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**	4.9
(Σ)G1	**Total SAR Inflows**	16.8	(+)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	0.80	W1	Redlands Aqueduct Weir	12.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.5	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	15.6	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.8

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	10.1
(+) B3	M/C #3 Penstock	7.4	(+)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**	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	2.1
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	20.8	Y3	Crafton Reser. Level (21.3)	18.3

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			J4	1,115	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4	30		L4	175	
	Riverside	**SWP**					2,459	

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: 11/24/2009
Time: 6:20

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.1	(+)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	26.6	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.7	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	14.9	(+)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	1.1
(+)F	Recharge Project	26.6	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	14.9
(Σ)G	**Total SWP Inflows**	60.6	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	60.6

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)	8.7	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.1
(+)D1	BVMWC River PU (USGS)	3.2	(+)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**	16.9	(+)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	0.82	W1	Redlands Aqueduct Weir	12.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.5	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	16.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.9

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	10.0
(+) B3	M/C #3 Penstock	7.1	(+)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**	13.3	(+)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)	13.3
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.3
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	2.3
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.1	Y3	Crafton Reser. Level (21.3)	19.5

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			J4	1,115	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4	30		L4	145	
	Riverside	**SWP**					2,459	

COMMENTS:

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
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: 11/23/2009
Time: 6:40

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.8	(+)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	26.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.8	(+)R	[1]Tate Treatment Plant	4.6
(+)D	Purchased Water	14.9	(+)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	0.6
(+)F	Recharge Project	26.5	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	14.9
(Σ)G	**Total SWP Inflows**	61.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	61.2

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)	9.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	5.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	4.7
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	0.3
(+)D1	BVMWC River PU (USGS)	3.2	(+)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**	17.3	(+)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	0.82	W1	Redlands Aqueduct Weir	12.5	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.1	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	15.0	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	17.3

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.6	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	9.9
(+) B3	M/C #3 Penstock	7.1	(+)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**	12.7	(+)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)	12.7
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	12.7
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)	21.5	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			J4	1,115	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4	89		L4	115	
	Riverside	SWP					2,459	

COMMENTS:

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

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: 11/20/2009
Time: 6:10

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	18.6	(+)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	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.8	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	14.9	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.8
(+)E	Redlands Aqueduct Leakage	0.0	(+)L	[1]Redlands Aqueduct	6.5	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	26.4	(+)M	[1]Crafton Unger Lane	0.0	(+)U	[1]M/C spreading @ ZT	14.9
(Σ)G	**Total SWP Inflows**	59.9	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	59.9

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)	8.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.9	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.6
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.3
(+)D1	BVMWC River PU (USGS)	3.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.9
(+)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**	4.9
(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	0.82	W1	Redlands Aqueduct Weir	10.8	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.3	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.4

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	10.5
(+) 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**	13.5	(+)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)	13.5
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.5
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)	20.7	Y3	Crafton Reser. Level (21.3)	20.3

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	52		J4	1,115	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4	26		L4	26	
	Riverside	SWP					2,459	

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: 11/19/2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	27.7	(+)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	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.4
(+)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	6.0	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	9.9	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	54.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	54.1

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)	10.3	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.4	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.2
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.2
(+)D1	BVMWC River PU (USGS)	3.4	(+)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**	18.1	(+)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	0.82	W1	Redlands Aqueduct Weir	13.0	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	10.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	16.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.4	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	18.1

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	10.4
(+) B3	M/C #3 Penstock	7.5	(+)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	3.3
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	10.5
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	21.1	Y3	Crafton Reser. Level (21.3)	19.4

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	52		J4	1,063	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		
	Riverside	SWP					2,459	

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: 11/18/2009
Time: 6:40

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	18.0	(+)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	26.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.7	(+)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	0.0
(+)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**	44.5	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.5

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)	9.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.6
(+)D1	BVMWC River PU (USGS)	3.4	(+)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**	17.3	(+)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	0.81	W1	Redlands Aqueduct Weir	12.1	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	10.5	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	17.2	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.4	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	17.3

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	8.9
(+) B3	M/C #3 Penstock	7.1	(+)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**	13.3	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	4.4
E3	M/C #1 Penstock Flow	0.0	(+)M3	BVHL (SAR)	0.0	(Σ)T3	Mill Creek #1 Flow (Cooley Hat)	13.3
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.3
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)	20.9	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	52		J4	1,011	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		
	Riverside	**SWP**					2,459	

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: 11/17/2009
Time: 6:40

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	17.7	(+)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	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.6
(+)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**	44.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.1

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)	10.6	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	3.6
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	0.1
(+)D1	BVMWC River PU (USGS)	3.4	(+)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**	17.7	(+)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	0.79	W1	Redlands Aqueduct Weir	14.2	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.7	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	16.3	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.4	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	17.7

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	10.5
(+) B3	M/C #3 Penstock	7.4	(+)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**	13.6	(+)L3	East Weir (MC)	0.0	(+)S3	East Weir to Zanja	3.1
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	2.6
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)	18.0

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	52		J4	930	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		
	Riverside	SWP					2,459	

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: 11/16/2009
Time: 6:45

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	17.6	(+)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	26.4	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.4	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.5
(+)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**	44.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	44.0

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)	12.0	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.3
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.4
(+)D1	BVMWC River PU (USGS)	3.2	(+)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**	18.9	(+)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	0.79	W1	Redlands Aqueduct Weir	15.4	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	15.1	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	19.8	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	18.9

Mill Creek

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)
(+) A3	RPU Flow	5.2	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	9.9
(+) B3	M/C #3 Penstock	7.5	(+)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**	12.7	(+)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)	12.7
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	12.7
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	1.7
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	22.1	Y3 Crafton Reser. Level (21.3)	17.8

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	157		J4	878	
C4	**Mill Creek**	**MC**	G4			K4		8,000
D4	**Mill Creek**	**SWP**	H4			L4		
	Riverside	**SWP**					2,459	

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: 11/13/2009
Time: 6:15

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	23.6	(+)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	26.5	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.9	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.5	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.7
(+)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	5.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	50.1	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	50.1

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)	10.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.5	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.9
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.6
(+)D1	BVMWC River PU (USGS)	3.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	3.5
(+)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**	3.5
(Σ)G1	**Total SAR Inflows**	16.9	(+)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	0.9
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	0.80	W1	Redlands Aqueduct Weir	12.7	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	11.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.9

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	10.8
(+) 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**	13.6	(+)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)	13.6
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	6.7
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)	18.0

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	53		J4	721	
C4	Mill Creek	MC	G4			K4		8,000
D4	Mill Creek	SWP	H4			L4		
	Riverside	SWP					2,459	

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: 11/12/2009
Time: 6:40

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	24.9	(+)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	8.2	(+)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	5.9	(+)T	[1]Newport for BVMWC	0.0
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	5.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	51.4	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	51.4

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)	9.1	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.1
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.6
(+)D1	BVMWC River PU (USGS)	3.2	(+)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**	16.0	(+)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	0.80	W1	Redlands Aqueduct Weir	11.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.2	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	14.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	16.0

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	10.5
(+) 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**	13.5	(+)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)	13.5
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.5
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)	20.5	Y3	Crafton Reser. Level (21.3)	17.2

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			J4		
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: 11.10.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	25.3	(+)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	26.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	8.1	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.0	(+)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	0.5
(+)F	Recharge Project	0.0	(+)M	[1]Crafton Unger Lane	5.5	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	51.3	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	51.3

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)	10.3	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.9	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.1
(+)D1	BVMWC River PU (USGS)	3.1	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	3.9
(+)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**	3.9
(Σ)G1	**Total SAR Inflows**	17.3	(+)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	0.82	W1	Redlands Aqueduct Weir	12.7	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.3	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	13.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.1	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	17.3

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	10.5
(+) 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**	13.5	(+)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)	13.5
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.5
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)	20.5	Y3 Crafton Reser. Level (21.3)	14.7

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			J4		
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: 11.09.2009
Time: 6:45

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.0	(+)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	26.3	(+)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	26.3	(+)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	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	45.3	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	45.3

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)	8.2	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.6
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	1.4
(+)D1	BVMWC River PU (USGS)	3.2	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.0
(+)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**	4.0
(Σ)G1	**Total SAR Inflows**	15.4	(+)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	0.82	W1	Redlands Aqueduct Weir	11.6	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	8.4	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.0
L1	SCE SAR AVM (SCADA)	14.7	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)Z2	Cuttle Weir To River	0.0	(Σ) C1	Greenspot Pipeline	0.0
						(Σ)N2	[1)]**Total SAR Deliveries**	15.4

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	11.2
(+) 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**	14.2	(+)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)	14.2
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	2.1
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)	14.6

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			J4		
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: 11.06.2009
Time: 6:00

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.9	(+)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	26.3	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.7	(+)R	[1]Tate Treatment Plant	4.6
(+)D	Purchased Water	26.3	(+)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	0.8
(+)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**	46.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.2

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)	8.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.8
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	2.9
(+)D1	BVMWC River PU (USGS)	3.2	(+)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**	16.7	(+)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	1.00	W1	Redlands Aqueduct Weir	11.3	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	10.7	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.9	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.2	(+)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	5.9	(+)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**	13.6	(+)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)	13.6
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	2.1
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)	15.5

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	52		J4	1,872	
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: 11.05.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.7	(+)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	26.3	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	7.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.3	(+)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	0.8
(+)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**	46.0	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.0

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)	8.5	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	3.7	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	3.7
(+)D1	BVMWC River PU (USGS)	3.1	(+)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**	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	0.87	W1	Redlands Aqueduct Weir	10.9	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.2	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.0	Y1	Redlands Sandbox Spill	0.0	(+) L2	**SBVWCD Parshall FlumeTo Basins**	0.0
Z1	Seven Oaks Dam Release	3.1	(+)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	5.9	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	10.5
(+) 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**	13.5	(+)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)	13.5
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.5
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)	16.4

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	52		J4	1,820	
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: 11.04.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.4	(+)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	26.3	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	26.3	(+)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	1.5
(+)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**	45.7	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	45.7

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)	9.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	0.0
(+)C1	Greenspot Pipeline	0.0	(+)O1	Newport for BVMWC	0.0	(+)C2	*Irrigation*	4.0
(+)D1	BVMWC River PU (USGS)	2.7	(+)P1	SBVWCD Mill Creek Spreading	0.0	(+)(Σ)D2	Boullioun Box Weir	4.0
(+)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**	4.0
(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	1.22	W1	Redlands Aqueduct Weir	11.4	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	10.0	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	14.6	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**	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	10.6
(+) 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	2.8
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	2.4
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)	16.9

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	52		J4	1,768	
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: 11.03.2009
Time: 6:30

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.7	(+)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	26.6	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.5
(+)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	6.0	(+)T	[1]Newport for BVMWC	1.8
(+)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**	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)	7.8	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.0	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	1.5
(+)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	4.0
(+)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**	4.0
(Σ)G1	**Total SAR Inflows**	14.5	(+)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	1.22	W1	Redlands Aqueduct Weir	9.8	(+)K2	Northfork Parshall Flume	0.0
K1	PH#3 Penstock (SCADA)	9.3	X1	SBVWCD Mill Creek Spreading	0.0	(Σ) I2	**Tailrace Pipeline**	0.9
L1	SCE SAR AVM (SCADA)	15.2	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**	14.5

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	10.9
(+) 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**	13.5	(+)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)	13.5
F3	Stream Parshall Flume to Yucaipa	0.0	(+)N3	Mill Creek Diversion (MC)	0.0	U3	**Total MC Deliveries**	13.5
G3	Observation at Garnet Bridge	0.0	(Σ)O3	**SBVWCD Spreading**	0.0	V3	Zanja West Weir to CWC Canal	1.7
H3						W3	Mill Creek PH #2,3 Afterbay Spill	0.0

I3	Mentone Reser. Level (23.0)	19.9	Y3 Crafton Reser. Level (21.3)	18.6

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	53		J4	1,716	
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: 11.02.2009
Time: 7:00

State Water Project

	Inflows	Flow Rate (cfs)		Deliveries	Flow Rate (cfs)		Deliveries (continued)	Flow Rate (cfs)
(+)A	BBMWD In-lieu	19.2	(+)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	27.0	(+)Q	[1]Zanja	0.0
(+)C	Exchange Water	0.0	(+)J	[1]Northfork Canal	6.6	(+)R	[1]Tate Treatment Plant	4.5
(+)D	Purchased Water	27.0	(+)K	[1]Edwards Canal	0.0	(+)S	[1]SBCFCD Grove	0.6
(+)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	0.0	(+)U	[1]M/C spreading @ ZT	0.0
(Σ)G	**Total SWP Inflows**	46.2	(+)N	[1]BVMWC Boullioun Box	0.0	(Σ)V	**Total SWP Deliveries**	46.2

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)	8.4	(+)M1	SBCFCD Grove	0.0	(+) A2	Newport	0.0
(+)B1	BVMWC Highline	4.2	(+)N1	BVMWC Highline	0.0	(+)B2	*Gay Overflow*	2.6
(+)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	4.2
(+)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**	4.2
(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	1.22	W1	Redlands Aqueduct Weir	10.4	(+)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)	13.4	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	6.1	(+)I3	Yucaipa Regional Park	0.0	(+)P3	Tate Inflow	11.7
(+) 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	2.1
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	2.3
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)	19.7

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	153		J4	1,663	
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.