

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 4/18/2024

Time: 7:00:00 AM

| Santa Ana River |                                | Flow Rate (cfs) |
|-----------------|--------------------------------|-----------------|
| A5              | Total SAR Inflows              | 159.5           |
| N2              | Total SAR Deliveries           | 159.5           |
| A1              | SAR PH#3 Penstock (calc)       | 0.0             |
| B1              | BVMWC Highline                 | 0.0             |
| C1              | Greenspot Pipeline             | 0.0             |
| L2              | SBVWCD Parshall Flume          | 139.9           |
| G2              | North Fork Canal Weir          | 3.0             |
| H2              | Edwards Canal                  | 0.5             |
| W1              | Redlands Aqueduct (calc)       | 13.1            |
| V1              | PH3 Afterbay Spill Loss to SAR | 3.0             |

| State Water Project |                      | Flow Rate (cfs) |
|---------------------|----------------------|-----------------|
| G                   | Total SWP Inflows    | 3.3             |
| V                   | Total SWP Deliveries | 3.3             |
| J                   | Northfork Canal      | 0.0             |
| L                   | Redlands Aqueduct    | 0.0             |
| M                   | Crafton Unger Lane   | 0.0             |
| T                   | Newport to BVMWC     | 0.0             |

| Mill Creek |                         | Flow Rate (cfs) |
|------------|-------------------------|-----------------|
| D3         | Total MC Inflows        | 63.9            |
| U3         | Total MC Deliveries     | 63.9            |
| K3         | Yucaipa Pipeline        | 0.0             |
| O3         | SBVWCD Spreading        | 62.0            |
| T3         | MC #1 Flow (Cooley Hat) | 11.5            |

| Reservoir Levels               | Feet   |
|--------------------------------|--------|
| Observation at SOD             | 2207.6 |
| Crafton Reservoir Level (21.3) | 13.0   |
| Mentone Reservoir Level        | 17.0   |

| River Recharge                      | AF |
|-------------------------------------|----|
| Estimate SAR Recharge (AF)          | 0  |
| Estimate Mill Creek Recharge (AF)   | 13 |
| Estimated Total River Recharge (AF) | 13 |

| Location                      | Type   | WY to Date (AF) | Target  |
|-------------------------------|--------|-----------------|---------|
| Santa Ana River               | SAR    | 19,689          | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 332             | 0       |
| Santa Ana River to Mill Creek | SWP    | 1,696           | 0       |
| Santa Ana River               | SWP    | 6,045           | 0       |
| Mill Creek                    | MC     | 5,875           | 1,068   |
| Mill Creek                    | SWP    | 8,590           | 0       |
| Plunge Creek                  | PLC    | 1,018           | 0       |

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning. Water in the Redlands Sandbox spill is coming from the Redlands Aqueduct.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 4/18/2024  
Time: 7:00:00 AM

### State Water Project

| Inflows |                                |     | Deliveries |                       |     |   |                      |     |   |                             |     |
|---------|--------------------------------|-----|------------|-----------------------|-----|---|----------------------|-----|---|-----------------------------|-----|
| A       | BBMWD In-lieu                  | 0.0 | H          | EVWD City Creek       | 3.3 | M | Crafton Unger Lane   | 0.0 | S | SBCFCD Grove                | 0.0 |
| B       | Muni test at Greenspot Station | 0.0 | I          | Santa Ana Low Turnout | 0.0 | N | BVMWC Boullioun Box  | 0.0 | T | Newport for BVMWC           | 0.0 |
| C       | Exchange Water                 | 0.0 | J          | Northfork Canal       | 0.0 | P | SARC West            | 0.0 | U | M/C spreading at Zanja Tate | 0.0 |
| D       | Purchased Water                | 3.3 | K          | Edwards Canal         | 0.0 | Q | Zanja                | 0.0 | W | Tres Lagos                  | 0.0 |
| E       | Redlands Aqueduct Leakage      | 0.0 | L          | Redlands Aqueduct     | 0.0 | R | Tate Treatment Plant | 0.0 | V | Total SWP Deliveries 3.3    |     |
| F       | Recharge Project               | 0.0 |            |                       |     |   |                      |     |   |                             |     |
| G       | Total SWP Inflows              | 3.3 |            |                       |     |   |                      |     |   |                             |     |

### Santa Ana River Inflows

| SAR PH #3 Penstock (calc) |                                  |      | BVMWC Highline |                               |     | SOD Release Subtotal |                                 |        | Total SAR Inflows   |                           |       |
|---------------------------|----------------------------------|------|----------------|-------------------------------|-----|----------------------|---------------------------------|--------|---------------------|---------------------------|-------|
| G2                        | Northfork Canal Weir             | 3.0  | A2             | Newport                       | 0.0 | D1                   | BVMWC River PU (USGS)           | 28.6   | A1                  | SAR PH #3 Penstock (calc) | 0.0   |
| H2                        | Edwards Canal                    | 0.5  | D2             | Boullioun Box Weir            | 0.0 | E1                   | Main River Gage (USGS)          | 130.9  | B1                  | BVMWC Highline            | 0.0   |
| J2                        | Tailrace Valve to Parshall Flume | 0.0  | E2             | Boullioun Box to Zanja        | 0.0 | minus                |                                 |        | C1                  | Greenspot Pipeline        | 0.0   |
| K2                        | Northfork Parshall Flume         | 9.0  | F2             | SBVWCD Mill Creek Spreading   | 0.0 | F1                   | Greenspot Spill                 | 0.0    | D1                  | BVMWC River PU (USGS)     | 28.6  |
| V1                        | PH#3 Afterbay Spill/Loss to SAR  | 3.0  | B1             | BVMWC Highline                | 0.0 | Z1                   | SOD Release Subtotal            | 159.5  | E1                  | Main River Gage (USGS)    | 130.9 |
| W1                        | Redlands Aqueduct / Sandbox      | 15.2 |                |                               |     |                      |                                 |        | D1a                 | BV Pick-Up gated          | 0.0   |
| Y1                        | Redlands Sandbox Spill           | 0.0  | Other          |                               |     |                      |                                 |        | A5                  | Total SAR Inflows         | 159.5 |
| Minus                     |                                  |      | J1             | Big Bear Lake Release         | 0.4 | W                    | Observation at SOD              | 2207.6 | Edison Generation   |                           |       |
| D1                        | BVMWC River PU (USGS)            | 28.6 | L1             | SCE SAR AVM (SCADA)           | 0.0 | X                    | SOD Reservoir Elevation (scada) | 2206.8 | SAR PH#1 Generating |                           |       |
| I1                        | Redlands Tunnel                  | 2.1  | X1             | SAR-MC Spread (Red. Aqueduct) | 0.0 | Y                    | Debris Pool Elevation           | N/A    | SAR PH#3 Generating |                           |       |
| A1                        | SAR PH #3 Penstock (calc)        | 0.0  |                |                               |     |                      |                                 |        |                     |                           |       |
| K1                        | PH3# Penstock (SCADA)            | 0.0  |                |                               |     |                      |                                 |        |                     |                           |       |

### Santa Ana River Deliveries

| Greenspot Pipeline |                             |     | Tailrace Pipeline |                                  |      | SBVWCD Parshall Flume To Basins |                                  |       | Deliveries |                                  |       |
|--------------------|-----------------------------|-----|-------------------|----------------------------------|------|---------------------------------|----------------------------------|-------|------------|----------------------------------|-------|
| M1                 | Redlands sand box           | 0.0 | G2                | Northfork Canal Weir             | 3.0  | J2                              | Tailrace Valve to Parshall Flume | 0.0   | V1         | SAR PH #3 Afterbay Spill         | 3.0   |
| N1                 | BVMWC Highline              | 0.0 | H2                | Edwards Canal                    | 0.5  | K2                              | Northfork Parshall Flume         | 9.0   | W1         | Redlands Aqueduct / Sandbox      | 15.2  |
| O1                 | Newport for BVMWC           | 0.0 | J2                | Tailrace Valve to Parshall Flume | 0.0  | H1                              | SBVWCD Diversion                 | 130.9 | Y1         | Redlands Sandbox Spill           | 0.0   |
| P1                 | SBVWCD Mill Creek Spreading | 0.0 | K2                | Northfork Parshall Flume         | 9.0  |                                 |                                  |       | Z2         | Cuttle Weir To River             | 0.0   |
| Q1                 | Crafton WC Unger Lane       | 0.0 | I2                | Tailrace Pipeline                | 12.5 | Sedimentation Basin Recharge    |                                  |       | B1         | BVMWC Highline                   | 0.0   |
| R1                 | BVMWC Highline to Boullioun | 0.0 |                   |                                  |      | L2                              | SBVWCD Parshall Flume            | 139.9 | C1         | Greenspot Pipeline               | 0.0   |
| S1                 | Tres Lagos                  | 0.0 | Irrigation        |                                  |      | Parshall Flume (SCADA)          |                                  |       | I2         | Tailrace Pipeline                | 12.5  |
| T1                 | Tate Pump Station to Zanja  | 0.0 | D2                | Boullioun Box Weir               | 0.0  |                                 |                                  |       | L2         | SBVWCD Parshall Flume            | 139.9 |
| C1                 | Greenspot Pipeline          | 0.0 | R1                | BVMWC Highline to Boullioun      | 0.0  |                                 |                                  |       | L2         | Sedimentation Recharge           | 0.0   |
|                    |                             |     | N                 | BVMWC Boullioun Box              | 0.0  |                                 |                                  |       | minus      |                                  |       |
|                    |                             |     | minus             |                                  |      |                                 |                                  |       | J2         | Tailrace Valve to Parshall Flume | 0.0   |
|                    |                             |     | B2                | Gay Overflow                     | 2.1  |                                 |                                  |       | K2         | Northfork Parshall Flume         | 9.0   |
|                    |                             |     | C2                | Irrigation                       | -2.1 |                                 |                                  |       | I1         | Redlands Tunnel                  | 2.1   |
|                    |                             |     |                   |                                  |      |                                 |                                  |       | N2         | Total SAR Deliveries             | 159.5 |

### Mill Creek Inflows

| Total MC Inflows |                             |      | Other |                                  |      |
|------------------|-----------------------------|------|-------|----------------------------------|------|
| A3               | RPU Flow                    | 0.0  | E3    | M/C #1 Penstock Flow             | 11.5 |
| B3               | M/C #3 Penstock             | 11.5 | F3    | Stream Parshall Flume to Yucaipa | 0.0  |
| C3               | SBVWCD Mill Creek Diversion | 52.4 | G3    | Observation at Garnet            | 10.0 |
| D3               | Total MC Inflows            | 63.9 |       |                                  |      |

### Mill Creek Deliveries

| Yucaipa Pipeline    |                               |      | MC #1 Flow (Cooley Hat) |                         |      | Total MC Deliveries |                                 |      | Other |                                   |      |
|---------------------|-------------------------------|------|-------------------------|-------------------------|------|---------------------|---------------------------------|------|-------|-----------------------------------|------|
| H3                  | Yucaipa Regional Park         | 0.0  | P3                      | Tate Inflow             | 0.0  | C3                  | SBVWCD Mill Creek Diversion     | 52.4 | H3    | Mentone Reservoir Level           | 17.0 |
| J3                  | Wilson Creek Spreading        | 0.0  | Q3                      | East Weir to Mill Creek | 9.6  | T3                  | Mill Creek #1 Flow (Cooley Hat) | 11.5 | R3    | Boullioun to BVMWC Highline       | 0.0  |
| K3                  | Yucaipa Pipeline              | 0.0  | S3                      | East Weir to Zanja      | 1.9  | U3                  | Total MC Deliveries             | 63.9 | V3    | Zanja West Weir to CWC Canal      | 0.0  |
|                     |                               |      | T3                      | MC #1 Flow (Cooley Hat) | 11.5 |                     |                                 |      | W3    | Mill Creek PH #2,3 Afterbay Spill | 0.0  |
|                     |                               |      | N3                      | Cooley Hat (SCADA)      | 11.5 |                     |                                 |      | Y3    | Crafton Reservoir Level (21.3)    | 13.0 |
| SBVWCD MC Spreading |                               |      |                         |                         |      |                     |                                 |      |       |                                   |      |
| C3                  | SBVWCD Mill Creek Diversion   | 52.4 |                         |                         |      |                     |                                 |      |       |                                   |      |
| L3                  | East Weir Recharge (MC)       | 9.6  |                         |                         |      |                     |                                 |      |       |                                   |      |
| M3                  | BVHL (SAR)                    | 0.0  |                         |                         |      |                     |                                 |      |       |                                   |      |
| X1                  | SAR-MC Spread (Red. Aqueduct) | 0.0  |                         |                         |      |                     |                                 |      |       |                                   |      |
| O3                  | SBVWCD MC Spreading           | 62.0 |                         |                         |      |                     |                                 |      |       |                                   |      |

### SBVWCD Recharge

| Location                        |                             | Type   | Previous Day (AF)             |       | WY To Date (AF)                |          | Target  | Calendar Year To Date (AF)        |          | Target  |
|---------------------------------|-----------------------------|--------|-------------------------------|-------|--------------------------------|----------|---------|-----------------------------------|----------|---------|
| A4                              | Santa Ana River             | SAR    | E4                            | 277.5 | I4                             | 19,688.8 | 176,000 | I4                                | 12,078.5 | 176,000 |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 0.0   | O4                             | 332.4    |         | O4                                | 325.9    |         |
|                                 | Santa Ana Rvr to Mill Creek | SWP    |                               | 0.0   |                                | 1,695.9  |         |                                   | 286.5    |         |
| B4                              | Santa Ana River             | SWP    | F4                            | 0.0   | J4                             | 6,044.6  |         | J4                                | 2,714.6  |         |
| C4                              | Mill Creek                  | MC     | G4                            | 123.3 | K4                             | 5,875.4  | 1,068   | K4                                | 5,666.4  | 106,000 |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0   | L4                             | 8,590.3  |         | L4                                | 2,960.6  |         |
|                                 | Plunge Creek                | PLC    |                               | 7.9   |                                | 1,018.2  |         |                                   | 996.5    |         |
| SAR Passing Cuttle Weir (cfs)   |                             |        | Share of Lost SAR Flow        |       | Estimate SAR flow (cfs)        |          | 0       | Estimate SAR Recharge (AF)        |          | 0       |
| Mill Creek Passing Garnet (cfs) |                             |        | Share of Lost Mill Creek Flow |       | Estimate Mill Creek flow (cfs) |          | 5       | Estimate Mill Creek Recharge (AF) |          | 13      |
| Flow in the River Above Alabama |                             |        | Flowing Beyond Alabama        |       | Total River Flow (cfs)         |          | 5       | Total River Recharge (AF)         |          | 13      |