



June 4, 2020

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for May 2020

Operations Department

The C.W. "Bill" Jones Pumping Plant (JPP) pumped at one unit the entire month of May due to D-1641 San Joaquin River Import/Export (SJR I/E) Ratio and due to a court ruling limiting pumping through the end of May. Pumping is expected to increase to 2 or 3 units around June 1st

As of May 25th, total pumping at the JPP was 46,526 acre-feet. The O'Neill Pump/Generating Plant (OPP) pumped 40 acre-feet and generated 25,533 acre-feet. No water was moved through the Delta-Mendota Canal/California Aqueduct Intertie Plant (DCI) during the month.

The Federal share in San Luis Reservoir on May 25th was 448,626 acre-feet as compared to 751,814 acre-feet on May 25th, 2019.

As of May 25th, releases from Friant Dam ranged from 592 to 500 cfs and flows entering the Mendota Pool ranged from 142 to 247 cfs. Flows of 145 to 225 cfs were released passed Mendota Dam for the San Joaquin River Restoration Program (SJRRP).

During the month of May, Canal Operations staff members performed open channel and closed-pipe flow measurements, routine patrols, bi-weekly meter readings, well soundings, and meter maintenance.

Control Operations staff performed the following switching/clearance placements for the month of May:

- JPP Unit 6 Butterfly Valve Accumulator; Investigate high oil level and inability to drain off oil. Found plugged drain valve
- O'Neill Unit 4 Penstock; Investigate loss of water level at crest/siphon breaker. Found ports plugged with debris
- Tracy Compound Water Treatment Plant Settling Basin; Annual draining of settling basin for weed control and inspection

Civil Maintenance Department

The Civil Maintenance crews worked on the following projects for the month of May:

- Assist with O'Neill Unit 4 main unit rehabilitation
- Continued to install anti-theft covers for DMC block house conduits
- Chemical and mechanical weed control

- Continued rodent abatement
- Fabricate trash rack for DMC turnout at milepost 47.37-L
- Pothole repair on Lower DMC operating road
- Grading of DMC, Wasteways, Volta WA and Kesterson WA operating roads
- Clean debris from Westley Wasteway and erosion repairs on Volta Wasteway
- Relocate office furniture at Tracy Admin Offices (TAO) for new employee accommodations
- Begin fabrication and installation of guards over Tracy Compound building skylights per JPIA recommendation
- Continued fabricating and installing guard rails on top of DMC meter wells per Cal-OSHA requirements
- Continued installing stairs and handrails to DMC turnout gates and meters
- Maintenance and repairs to float lines, signs, fences, and gates
- Garbage collection on DMC, SLD, and Wasteways

Plant Maintenance Department

Electrical/C&I Staff:

- Continued with lower DMC Programmable Logic Controller (PLC) upgrade replacement
- Continued Tracy 13.8kV switchgear relay testing and setting verifications
- Begin reassembly of Jones Unit 2 electrical components
- Reinstall air conditioners in Tracy Electric Shop
- Repairs to high-bay lighting in JPP Machine Shop
- Installed new data line in Civil Maintenance -Tracy
- Relocate data and phone racks in O'Neill Station Service room
- Perform infrared inspections of electrical panels at LBFO
- Commission new 200 kW backup generator for use at O'Neill Plant

Mechanical Staff:

- O'Neill Unit 4 main unit rehabilitation: Unit assembly complete, test runs performed on May 5-6, and unit in service and available on May 6th.
- JPP Unit 2 rewind: Rewind contractor NEC turned unit over to the Authority on May 11th. Installed rotor and thrust bridge and performed alignment checks and adjustments. Authority will continue the reassembly process and turn the unit back over to NEC for performance testing prior to the scheduled testing on June 15th.
- Completed installation of new JPP air wash system for humidity control and cooling
- Rebuild O'Neill Plant cooling water pumps for spares
- Continued repairs to JPP 100-ton gantry crane south rail
- DCI Plant mechanical preventive maintenance (PM)
- Jones Unit 6 Butterfly Valve accumulator tank repairs

Engineering Department

The Engineering Department staff worked on the following projects this month: Rehabilitate OPP Unit 4 penstock and pump assembly projects, JPP Units 2 & 5 rewind projects (developing a repair plan for the slip ring mounting), JPP air wash system replacement (established draft operations guide and monitoring humidity on Motor Floor with a target of 50% RH), JPP water treatment plant replacement, DCI electrical/mechanical maintenance & testing, DCI Unit 4 switchgear replacement, design review for DCI Units 3 & 4 pump installation (HVAC project a priority with new motor installation in 2021), main transformer oil analysis for TFO and DCI, anode replacement

projects for DCI and OPP, JPP stuffing box RTD & thermowell repair/replacement, PM program review for transfer to new asset management program (obtained feedback and requests from all crews and will be drafting a management overview), and DMC subsidence mitigation project.

Land Management Activity Summary:

This month two (2) access permits were amended. Access permit P2102003 issued to Caltrans for underwater bridge inspections along the Delta-Mendota Canal was amended to reflect a new expiration date of June 20, 2020. Access permit P2002007 issued to the City of Patterson to conduct a topographic survey at MP39.21 (Rogers Road) was amended to expire on April 30th, 2021.

Continued working with Frontier on fiber line to be placed over WWW at Hwy 33, and working with City of Patterson on replacement of Rogers Road bridge. Participated in conference call regarding Corral Hollow Bridge replacement as USBR in final stretch for approval, with 90% drawings expected mid-summer. Researched right of way and worked with USBR, DPWD, and landowner to resolve access issue on NWW at Eastin Road. Began working again with DPWD and USBR on previous license request to install pipeline crossing attached to farm bridge located at 31.59 at DPWD request.

Safety Department

The Safety Department worked on the following items this month: JHA support for the crews, and COVID-19 related work. Purchasing of heavy equipment for FY21, budget work for FY22. Environmental testing of the control building to support office expansions.

Work & Asset Management Department

The Work & Asset Management Department worked on the following items this month:

EAM/Financial Software Replacement Project

- FAC recommended and Board approved Single Source Contracts for the business software solution.
- Contracts with NetSuite, Shepherd, and PyanGo were signed on May 28, 2020.

Contracts in Process

- TFF Heat Pump Replacement – IFB solicitation
- Equipment Purchase – Ag Tractor – award purchase agreement
- Equipment Purchase – Aerial Lift – award purchase agreement
- DCI Switchgear Replacement – award purchase agreement
- LBFO Domestic Well Condition Assessment – award purchase agreement

Ongoing:

- Purchasing in support of the O&M crews, to maintain Warehouse stock, and locate & purchase disinfecting supplies & protective gear to meet safety & protection criteria for COVID-19
- Warehouse receiving, stocking, and distribution
- Oracle WAM invoicing
- Janitorial following cleaning & disinfecting protocols per COVID-19 guidelines

Information Technology Department

The Information Technology Department worked on the following items this month:

- Negotiated new services/contracts with AT&T
 - Installation phase 1 is under way
 - LBAO internet router installed 5-22-20
 - Tracy internet router to be installed 5-27-20
 - Sac router install date TBD
 - Test and Turn-Up expected by end of first week June
 - Transfer IP block to new circuit and Go-Live TBD
 - Installation phase 2 (ASEoD)
 - Not started TBD no later than 6-2-20
 - Installation phase 3 (SDWAN)
 - Not started TBD no later than 6-3-20
 - Phase 4
 - Go Live of phase 2 & 3 TBD
 - Phase 5
 - Port phone call paths to routers in phase 1
- Negotiated new services/prices with Un-Wired (Dave Lakey, project lead)
 - Bandwidth increase will coincide with phase 4
- Researched top 5 remote meeting software for security and viability for use at Water Authority, both in private meeting sessions and public meetings, re Committee and BOD.
 - Tested: Zoom, Webex and BlueJeans in “Live” Meetings. Evaluated; GotoMeeting, JoinMe, LogMeIn for viability.
 - Determined Zoom is most user friendly and after some updates one of the most secure
- Continued assistance with selection of new vendor and software to replace or update existing accounting and work asset management programs.
- Continuing support for our newly formed “Work at Home” users
- Completed upgrade of latest Symantec mail server anti-virus.
- Placed new printers into service for Control Room; DM and SCADA
- Added printer to new SCADA backup Control Room in OPP
- Purchased new laptops to newly created positions.
 - Configured for deployment 5 new laptops
 - Deployment scheduled by end of month
- Researched and procured new Adobe licensing for the Engineering team
 - Awaiting actual license and download file.
- Assist move of Chauncey, main copier TAO,
- Worked with James to establish correct serial communication settings for power fault monitors

HR Department

General Administrative Activities:

- Recruitments:
 - Contract Specialist (candidate selected)
 - HR Analyst, II (candidate selected)
 - Hydro-Electric Planner (internal candidate selected)
 - Civil Engineer (currently recruiting)
 - Safety Officer (currently recruiting)
 - SCADA Technician (preparing to recruit)
- RFP for Compensation Survey

Trainings/ Conferences:

- Laures continues with the Leadership Essentials course through the JPIA online at this time.
- Scheduling continues for Sexual Harassment Training for all staff as per law
- Stephanie & Laures continue to view webinars for ensure compliance with new legislation as it pertains to COVID-19
- Stephanie & Laures view weekly webinars hosted by the JPIA for COVID-19

Government Reporting:

- Families First CoronaVirus Response Act (FFCRA)
- Affirmative Action/EEO reporting for year ending 2019

Ongoing:

- FMLA notices/follow ups
- COBRA notices/follow ups
- Worker's Comp follow ups
- Monthly safety points distribution
- Health benefits eligibility/employee assistance
- Maintain OSHA logs for 2020 calendar year
- Wellness program

EXTRAORDINARY O&M & CAPITAL PROJECTS

DELTA-MENDOTA CANAL (DMC)

DMC O&M Road Maintenance Program – Phase 10 (MP 81.69 to 90.54)

Status: Began putting contract documents together.

Bridge Abutment Repair at MP 92.73

Status: No Activity

DMC Subsidence Mitigation

Status: Water Authority staff reviewed and provided comments to Reclamation on the 90% design package for the manufacturing and installation of two additional pumps at the Intertie Pumping Plant.

DMC Flowmeter Upgrade Program

Status: Water Operations staff has developed the preliminary list of 66 meters that will be replaced under Phase 1 of this project. Discussions with McCrometer are scheduled for early June to identify meter costs and acquire technical data that will assist in writing the contract documents. Sole source procedures will be followed for the purchase of the meters.

C.W. "BILL" JONES PUMPING PLANT (JPP)

JPP Excitation Cabinet & Control Panel Refurbishment (1800333) FY2018 Project

Status: USBR Denver Office engineering staff continues to work on the design of the static system.

JPP Unit No. 2 Rewind

Status: JPP Unit No. 2 rewind work is ongoing and on schedule. NEC completed the rewind work on schedule and handed the unit back to SLDMWA for reassembly. Reassembly is progressing as planned and it is estimated to be completed by June 12th. Performance testing of the unit is scheduled to be performed during the week beginning June 15th. Estimated completion date for project is June 30, 2020.

JPP Unit No. 5 Rewind

Status: Submitted outage request to CVO for June 15, 2020 to Feb 28, 2021. Project is on schedule. Stator core laminations are estimated to be shipped by May 29, 2020 from Poland to NEC (contractor) in TX. NEC submitted several submittals as per contract requirements.

JPP/OPP/DCI Fire Protection Systems Assessment

Status: Reclamation TSC – Denver Office working on estimate for Letter of Agreement to provide engineering support for the facility assessments.

O'NEILL PUMPING/GENERATING PLANT (OPP)

Design New Access Opening near Pump Bowl (1800332) FY2018 Project

Status: SLDMWA continues to evaluate the best way to move forward with procuring new pump bowls through the original pump bowl manufacturer, Fairbanks Morse engineering. New pump bowls will incorporate two cast in 'windows' for access hatches

EXTRAORDINARY O&M & CAPITAL PROJECTS

to provide safer, easier maintenance. In addition, SLDMWA is in receipt of a letter from Reclamation that voiced concerns with rehabilitation methods taken on Units 6,1, and 4 pump bowls and elbows. SLDMWA is drafting a plan to satisfactorily address all Reclamation concerns, and will continue to work closely with them to convey the quality work done in the past, and moving forward.

Rehabilitate Pump Assemblies Unit No. 4 (1900462)

Status: Project completed on May 8th, 2020.

Main Transformers Condition Assessment (1901872)

Status: The assessment final report has been received from Reclamation's Tracy Office. Project is completed

Main Transformers Rehabilitation/Replacement Project (2001247)

Status: Provided additional pictures, information, and drawings per request from TSC design engineer.

Arc Flash Hazard Analysis, Facility Rating, & Protective Relays Reviews (Electrical Equip Periodic Reviews) (2001994)

Status: The Letter of Agreement 20-XC-20-421 has been fully executed and funded on 4/16/2020. It has been confirmed with Jeff R. (TSC) that they are on track for the site survey on 6/22-6/26. Provided some information per request from Jeff.

TRACY FACILITIES (TFO)

TFO Domestic Water Treatment Plant Replacement (2000158)

Status: Participated in testing exercise with the State Water Resources Control Board. It was found the existing filters provide excellent water quality, although they are not functioning well in the existing system. Further research will be conducted on nano-filters and systems that will work best for our application.



**San Luis & Delta-Mendota Water Authority
OPERATIONS SUMMARY**

NOTE: ALL FIGURES ARE IN ACRE FEET

	April-2020	April-2019
JONES PUMPING PLANT - PUMPED	114,461	95,998
DCI PLANT - PUMPED	0	0
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	69,715	24,478
O'NEILL P/G PLANT - GENERATED	6,544	9,843
DMC DELIVERIES	17,907	23,511
RIVER/WELL/RECYCLE WATER INTO DMC	6,247	2,514
MENDOTA POOL DELIVERIES	34,258	73,850
SHASTA RESERVOIR STORAGE	3,687,200	4,223,200
SAN LUIS RESERVOIR STORAGE	1,511,583	1,748,795
* FEDERAL SHARE	559,984	881,790

	April-2020	April-2019
SAN LUIS UNIT DELIVERIES	8,665	10,028
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	7,022	5,656

Jones Pumping Plant monthly average = 1,924 cfs



**San Luis & Delta-Mendota Water Authority
Monthly Deliveries
April 2020**

To: Adam Hoffman; Erma Leal; Gabe Mora; Katrina Buelna; Liz Kiteck; Mark Rhodes; Marta Rivas; Melody Hernandez; Sheryl Carter; Sonya Nechanicky; Stacey Smith; Tim Blair; Tom Boardman; Joyce Machado; Wes Harrison

From: Chauncey Lee, Water Operations Superintendent, 530-228-4504 (cell)

Date: 5/15/20

District/Other	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Total Pumped @ Jones Pumping Plant	114,461			
Total Pumped @ DCI	0			
Total Reversed @ DCI	0			
City of Tracy		0	0	0
Byron Bethany I.D.		485	1	486
West Side I.D.		0	0	0
Banta Carbona I.D.		426	0	426
West Stanislaus I.D.		0	0	0
Patterson I.D.		0	0	0
Del Puerto W.D.		4,099	0	4,099
Central California I.D. - above check #13		1,191	0	1,191
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		217	0	217
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		611	0	611
Total Pumped @ O'Neill PP	(69,715)			
Total Generated @ O'Neill PP	6,544			
Central California I.D. - below check #13		4,314	0	4,314
Grasslands W.D. (76.05-L)		1,906	0	1,906
Fish & Game Los Banos Refuge (76.05-L)		1,126	0	1,126
Fish & Wildlife Kesterson (76.05-L)		80	0	80
Freitas Unit (76.05-L)		168	0	168
Salt Slough Unit (76.05-L)		830	0	830
China Island (76.05-L)		617	0	617
San Luis W.D. - below check #13		357	0	357
Panoche W.D.		1,257	2	1,259
Eagle Field W.D.		30	0	30
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		190	0	190
River and Groundwater well pump-in	4,170			
North Valley Regional Recycled Water Program	2,077			
Change in Canal Storage	9			
Wasteway Flushing and Spill	(45)			
Total Available in Delta-Mendota Canal	57,501			
TOTAL DELIVERY FROM DELTA-MENDOTA CANAL	(17,907)	17,904	3	17,907
Theoretical DMC Delivery to Mendota Pool	39,594			
Total Estimated DMC Delivery to MP (determined at Check 20)	35,852			
Estimated (Loss) or Gain in DMC	(3,742)			
Estimated % Loss or Gain in DMC	-3.09%			



**San Luis & Delta-Mendota Water Authority
Monthly Deliveries
April 2020**

<u>District/Other</u>	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Estimated DMC Inflow to MP	35,852			
Mendota Pool Groundwater Well Pump-In	5,073			
(+)SJRR Releases into Mendota Pool	4,801			
(+)Kings River Flood Releases into the Mendota Pool	0			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		12,830	0	12,830
Columbia Canal Company (CCC)		2,657	0	2,657
Firebaugh Canal Water District (FCWD)		235	0	235
San Luis Canal Company (SLCC)		7,230	0	7,230
<u>Refuge:</u>				
Conveyance Losses		0	0	0
Calif Dept of F/G-LB Unit (CCID)		375	0	375
Calif Dept of F/G-LB Unit (SLCC)		1,250	0	1,250
Calif Dept of F/G-Salt Slough Unit (CCID)		276	0	276
Calif Dept of F/G-China Island Unit (CCID)		206	0	206
US Fish & Wildlife-San Luis Refuge (SLCC)		0	0	0
US Fish & Wildlife-Freitas (CCID)		56	0	56
US Fish & Wildlife-Kesterson (CCID)		26	0	26
Grasslands WD (CCID)		635	0	635
Grasslands WD (SLCC)		620	0	620
Grasslands (Private)		0	0	0
San Luis WD Conveyance (CCID)		16	0	16
Del Puerto WD Conveyance (CCID)		21	0	21
<u>San Joaquin River Restoration:</u>				
SJRR		4,354	0	4,354
<i>Other: (see MP Operations Report)</i>		3,471	0	3,471
<i>Total Available Water in Mendota Pool</i>	45,726			
TOTAL DELIVERY FROM MENDOTA POOL	(34,258)	34,258	0	34,258
*Estimated (Loss) or Gain in Mendota Pool	(11,468)			
*Estimated % Loss or Gain in Mendota Pool	-25.08%			
Total System Delivery	(52,165)			
*Total Estimated System (Loss) or Gain	(15,210)			
*Total Estimated % System Loss or Gain	-11.26%			

Special Notes: Extra water sent into the Mendota Pool to raise elevation for operational needs. Also excess water from Mendota Pool wells.



Jones Pumping Plant
April - 2020

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	3	CONTINUOUSLY	2703
2	3	CONTINUOUSLY	2691
3	3 to 4	0001	3480
4	4	CONTINUOUSLY	3491
5	4	CONTINUOUSLY	3496
6	4	CONTINUOUSLY	3506
7	4	CONTINUOUSLY	3497
8	4	CONTINUOUSLY	3495
9	4	CONTINUOUSLY	3493
10	4 to 2	0001	1635
11	2	CONTINUOUSLY	1611
12	2	CONTINUOUSLY	1611
13	2	CONTINUOUSLY	1613
14	2	CONTINUOUSLY	1609
15	2	CONTINUOUSLY	1640
16	2	CONTINUOUSLY	1607
17	2 to 1	0001	990
18	1	CONTINUOUSLY	987
19	1	CONTINUOUSLY	986
20	1	CONTINUOUSLY	987
21	1 to 2	0001	1602
22	2	CONTINUOUSLY	1600
23	2 to 1	0001	995
24	1	CONTINUOUSLY	984
25	1	CONTINUOUSLY	983
26	1	CONTINUOUSLY	984
27	1	CONTINUOUSLY	985
28	1	CONTINUOUSLY	986
29	1 to 2	0001	1729
30	2	CONTINUOUSLY	1731
31			
AVG CFS for the month			1924



NON-PROJECT WATER CREDITS REPORT
 (ALL FIGURES IN ACRE FEET)
 April 2020 WA Credits

To: Adam Hoffman; Adam Scheuber; Anthea Hansen; Kelley Geyer; Bobby Pierce; Brandon Kelley; Chris Eacock; David Weisenberger; Erma Leal; Frances Mizuno; Gabe Mora; Ian Uecker; Janet Gutierrez; Jarrett Martin; Jason Dean; Jeff Bryant; Juan Cadena; Katrina Buena; Lon Martin; Lydia Sosa; Margaret Howe; Margie Lowe; Mark Rhodes; Marta Rivas; Melody Hernandez; Reza Shahcheraghi; Rick Gilmore; Sandra Reyes; Sheryl Carter; Siqing Liu; Stacey Smith; Wes Harrison

From : Chauncey Lee, Water Operations Superintendent, 530-228-4504 (cell)

Date: 5/15/20

CREDITS UNDER WARREN ACT CONTRACTS									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
3.32-R1	0	0	1	0	BBID	0	0	0	0
3.32-R2	0	0	1	0	BBID	0	0	0	0
3.32-R3	130	130	1	0	BBID	0	0	0	0
13.31-L	4,804	4,804	1	0	BBID	0	0	0	0
14.26-R	5,217	5,217	1	0	BBID	0	0	0	0
15.11-R	1,624	1,624	1	0	BBID	0	0	0	0
20.42-L	18,619,563	19,311,670	1	0	BCID	2,000	(100)	1,900	1,900
20.42-L	18,619,563	19,311,670	1	0	USB/FWA	124	0	124	124
21.12-L	990	990	1.01	0	DPWD	0	0	0	0
21.86-L	769	769	1	0	DPWD	0	0	0	0
24.38-L	1,763	1,763	1.04	0	DPWD	0	0	0	0
29.95-R	944	944	0.87	0	DPWD	0	0	0	0
30.43-L	7,422	7,422	1	0	DPWD	0	0	0	0
30.43-R	2,123	2,123	0.92	0	DPWD	0	0	0	0
30.95-L	1,916	1,916	1.03	0	DPWD	0	0	0	0
31.31-L1	46,798	46,800	1	(2)	WSTAN	0	0	0	0
31.31-L2	46,798	46,800	1	0	DPWD	0	0	0	0
31.31-L3	46,798	46,800	1	0	PID	0	0	0	0
31.60-L	8,182	8,182	0.93	0	DPWD	0	0	0	0
32.35-L	1,793	1,794	0.86	(1)	DPWD	0	0	0	0
33.71-L	748	748	0.94	0	DPWD	0	0	0	0
36.80-L	1,843	1,844	1	(1)	DPWD	0	0	0	0
37.10-L	3,294	3,294	0.94	0	DPWD	0	0	0	0
37.32-L	2,653	2,653	0.91	0	DPWD	0	0	0	0
42.50-R	1,034	1,034	0.96	0	DPWD	0	0	0	0
42.53-L	5,043,553	5,131,398	1	0	PID	1,400	(70)	1,330	3,021
42.53-L	5,043,553	5,131,398	1	0	DPWD	0	0	0	0
42.53-L	5,043,553	5,131,398	1	0	USB/FWA	617	0	617	985
43.22-L	55	55	1	0	DPWD	0	0	0	0
48.97-L	882	936	0.95	0	SLWD	51	(3)	48	48
50.46-L	4,108	4,108	1.07	0	DPWD	0	0	0	0
51.00-R	296	296	0.89	0	DPWD	0	0	0	0
51.66-L	337	337	0.98	0	DPWD	0	0	0	0
52.40-L	1,331	1,331	0.94	0	DPWD	0	0	0	0
58.28-L	1,241	1,347	1.02	0	SLWD	108	(5)	103	165
58.60-L	917	917	0.96	0	DPWD	0	0	0	0
58.73-R	306	306	1	0	DPWD	0	0	0	0
64.85-L	1,662	1,662	0.72	0	DPWD	0	0	0	0
UPPER DMC SUB TOTAL								4,122	6,243



NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

April 2020 WA Credits

CREDITS UNDER WARREN ACT CONTRACTS									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
78.31-L	4,469	4,469	1.08	0	SLWD	0	0	0	0
79.12-R	1,812	1,812	0.91	0	SLWD	0	0	0	0
79.13-L	2,290	2,298	1	(8)	SLWD	0	0	0	0
79.13-R	4,415	4,427	1.08	0	SLWD	13	(1)	12	12
79.60-L	8,773	8,818	0.84	0	SLWD	38	(2)	36	178
80.03-L	83	83	0.94	0	SLWD	0	0	0	0
80.03-R	638	638	1.05	0	SLWD	0	0	0	0
98.60-R	10,793	10,793	1	0	PANOCHÉ/MS	0	0	0	0
98.74-L	5,695	5,695	1.14	0	PANOCHÉ/MS	0	0	0	0
99.24-L	10,493	10,493	0.92	0	PANOCHÉ/MS	0	0	0	0
100.70-L	6,211	6,211	1	0	PANOCHÉ/MS	0	0	0	0
102.04-R	1,001	1,001	1	0	WIDREN WD	0	0	0	0
LOWER DMC SUB TOTAL								48	190
WARREN ACT CONTRACT CREDIT TOTAL								4,170	6,433
TOTAL GROSS PUMP-IN								CREDIT	
TOTAL (BYRON BETHANY IRRIGATION DISTRICT)						0		0	0
TOTAL (BANTA CARBONA IRRIGATION DISTRICT)						0		0	0
TOTAL (DEL PUERTO WATER DISTRICT)						0		0	0
TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)						0		0	0
TOTAL (PATTERSON IRRIGATION DISTRICT)						1,400		1,330	3,021
TOTAL (SAN LUIS WATER DISTRICT)						210		199	403
TOTAL (PANOCHÉ WATER DISTRICT)						0		0	0
TOTAL (MERCY SPRINGS WATER DISTRICT)						0		0	0
TOTAL (WIDREN WATER DISTRICT)						0		0	0
Other Warren Act Conveyance Credit Totals									
Del Puerto Water District:						0		0	0
Banta Carbona Irrigation District:						2,000		1,900	1,900
West Stanislaus Irrigation District:						0		0	0
Byron Bethany Irrigation District:						0		0	0
Patterson Irrigation District:						0		0	0
San Joaquin River Restoration Pump Back BCID:						124		124	124
San Joaquin River Restoration Pump Back PID:						617		617	985

Notes: 3.32-R, 20.42-L, 31.31-L and 42.53-L are River water

**TABLE 19: GOVERNOR EDMUND G. BROWN CALIFORNIA AQUEDUCT
SAN LUIS FIELD DIVISION MONTHLY DELIVERIES**

APRIL 2020

REACH TOTALS	POOL	INFLOW INTO AQUEDUCT	CUSTOMERS	AMOUNT IN AF
R3A 7024			Parks & Rec. @ San Luis Reservoir	2
			Santa Clara Valley Water District	6784
			Casa de Fruta (Santa Clara Valley Water District)	0
			San Benito Water District	238
R3 537	13		DFG @ O'Neill Forebay	28
	13		Parks & Rec. @ O'Neill Forebay	1
	13		DWR Water Truck at O'Neill 0 AF for Cattle Program @ O'Neill Forebay	0
	13		San Luis Water District	508
R4 12330	14		City of Dos Palos	104
	14		Pacheco Water District	522
	14		San Luis Water District	3199
	14		Panoche Water District	49
	15		San Luis Water District	2049
	15		Panoche Water District	2306
	15		Westlands Water District	4101
R5 17131	16		DFG @ Lat. 4L (Pilibos)	0
	16		DFG @ Lat. 4L	0
	16		DFG @ Lat. 6L	0
	16		DFG @ Lat. 7L	0
	16		Westlands Water District	5358
	17		Westlands Water District	3040
	18		City of Coalinga	364
	18		Pleasant Valley Pumping Plant	4752
	18		Westlands Water District	3617
R6 4871	19		Alta Gas	0
	19		City of Huron (P&R-Area 11) @ Lat. 22R	0
	19		DWR Water Truck @ 22R/F&G @ Lat.22R	0
	19		Lemoore N.A.S. thru WWD 29L & 30L	143
	19		Kings County thru WWD 30L	0
	19		Westlands Water District	4728
4204	20		City of Huron @ Lat. 23R	61
	20		Kings County thru WWD 31L,32L,33L,34L,35L,36L	0
	20		Westlands Water District	2693
	21		City of Avenal	184
	21		Kings County thru WWD 37L,38L	0
	21		Westlands Water District	1266
46097	0		<---TOTALS--->	46097
TOTALS BY CUSTOMERS				
			Pacheco Water District	522
			San Luis Water District	5756
			Panoche Water District	2355
			Westlands Water District	29555
			AltaGas	0
			City of Huron @ LAT. 23R	61
			City of Huron (P&R/Area 11 @ 22R)	0
			Lemoore N.A.S. thru WWD @ 29L & 30L	143
			Kings County thru WWD Laterals in Pools 19 - 21	0
			City of Avenal	184
			City of Dos Palos	104
			City of Coalinga	364
			DFG @ O'Neill Forebay	28
			Pacheco Tunnel	7022
			DFG @ Lateral 4L & 6L & 7L	0
			DWR Water Truck @ 22R/F&G @ Lat.22R	0
			Parks & Recreation	3
			0 AF for DWR Water Truck at O'Neill, 0 AF for Cattle Program @ O'Neill Reservoir	0
			Customers Total:	46097
Pool 12 - Reach 2B VA Turnout Use AF = 3				
DWR 3137(Rev.9/15)				46100



Monthly Availability Report

CW "Bill" Jones Pumping Plant

April - 2020

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	720	38.5	5.35%	0.0	0.00%	94.65%	1	Exciter Cleaning and Brush Replacement
Unit-2	720	720.0	100.00%	0.0	0.00%	0.00%	0	Unit Rewind/Rotor Rehab
Unit-3	720	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-4	720	0.0	0.00%	0.0	0.00%	100.00%	2	
Unit-5	720	0.0	0.00%	3.2	0.44%	99.56%	0	JU6 440V Excitation Breaker Replacement (MP6A Outage)
Unit-6	720	51.5	7.15%	0.0	0.00%	92.85%	0	Exciter Cleaning and Brush Replacement, 440V Excitation Breaker Replacement
Total	4320	810.0	19%	3.2	0.07%	80.93%	3	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



Monthly Availability Report

O'Neill Pump/Generating Plant
April - 2020

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	720	0.0	0.00%	8.2	1.14%	98.86%	1	1	
Unit-2	720	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-3	720	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-4	720	720.0	100.00%	0.0	0.00%	0.00%	0	0	Pump/Penstock Rehab
Unit-5	720	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-6	720	0.0	0.00%	0.0	0.00%	100.00%	0	1	
Total	4320	720.0	17%	8.2	0.19%	82.81%	2	2	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



Monthly Availability Report

DCI Pumping Plant

April - 2020

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	720	71.5	9.93%	0.0	0.00%	90.07%	0	Plant Outage for Electrical Maintenance
Unit-2	720	71.5	9.93%	0.0	0.00%	90.07%	0	Plant Outage for Electrical Maintenance
Unit-5	720	71.5	9.93%	0.0	0.00%	90.07%	0	Plant Outage for Electrical Maintenance
Unit-6	720	71.5	9.93%	0.0	0.00%	90.07%	0	Plant Outage for Electrical Maintenance
Total	2880	286.0	10%	0.0	0.00%	90.00%	0	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice