



May 17, 2018

To: Frances Mizuno, Assistant Executive Director

From: Bob Martin, Engineering & Planning Manager

Subject: O&M Report for April 2018

### **Operations Department**

The C.W. "Bill" Jones Pumping Plant (JPP) began the month of April at four units but was decreased to three units on April 4<sup>th</sup> due to operational capacity limitations at the Giannelli Pump/Generating Plant. Pumping was increased back to four units on April 8<sup>th</sup> due to available water in the Delta but was decreased on April 11<sup>th</sup> due to the NMFS BO RPA Action IV.2.3 for steelhead. Pumping was further decreased to one unit on April 12<sup>th</sup>, increased to three units on April 15<sup>th</sup>, and decreased again to one unit on April 18<sup>th</sup> all due to Delta inflow/outflow controlling. Pumping was increased to two units on May 7<sup>th</sup> for the rest of the month.

Total pumping for the month of April at the JPP was 113,549 acre-feet. The O'Neill Pump/Generating Plant pumped 74,754 acre-feet and generated 7,292 acre-feet. DCI operated for reverse flow to convey 8,642 acre-feet of SWP water from DWR California Aqueduct (CAAQ) to the DMC due to liner repair in the CAAQ upstream of the O'Neill Forebay.

The Federal share in San Luis Reservoir on April 30<sup>th</sup> was 862,457 acre-feet as compared to 966,464 acre-feet on April 30<sup>th</sup>, 2017.

Releases from Friant Dam for the San Joaquin River Restoration Program (SJRRP) ranged from 350-662 cfs for the month of March. Flows into the Mendota Pool from the SJR ranged from 112-257 cfs. All the inflow was subsequently released past Sack Dam.

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

### **Civil Maintenance Department**

The Civil Maintenance crews worked on the following projects for the month of April: Chemical and mechanical weed control, erosion repairs on the Newman Wasteway, continued installing DMC roadway gates in the Gustine area (Gravel Pit, Taglio, and Snyder Roads), grading of DMC and SLD operating roads, DMC drain inlet cleaning, clean up and repairs to DMC at Tracy Blvd due to gravel truck accident, replaced DMC turnout gates at mileposts 61.84-L and 31.60-L, continued replacement of wooden staircases along DMC, fabricated test can lids, removed silt from DMC turnouts with compressed air, and maintenance and repairs to float lines, signs, fences, and gates.

### **Plant Maintenance Department**

Electrical/C&I/SCADA Staff: Completed installation of the power supply for the JPP Unit 6 rewind contractor's construction office, located and marked the DMC supervisory cable in several areas, continued working with the contractor for the North Valley Regional Recycled Water Program (NVRWP) flow meter interface to SCADA, continued working with AT&T to provide fiber communications to Tracy complex and began running conduit in Control Building basement, completed installation of a sonic transducer for the O'Neill plant sump level detection and pump control, continued installation of fire detection system at O'Neill, troubleshoot DCI reverse-flow flow meter intermittent operation, began replacement and update to Exchange Contractor's DSP web portal, assist Engineering Department with SGMA telemetry, replaced flexible conduits at DMC Check 10, troubleshoot DMC Check 19, gate #2 motor issue, cleaned DMC Check 21/Mendota Pool meter, and continued to provide support to the Avaya phone system.

Mechanical Staff: Completed removal of rotor and associated equipment for the JPP Unit 6 rewind contractor (see photos below), replaced wheel pit sump pumps in JPP Unit 3 and JPP Unit 5, continued blasting and coating of stoplogs for DMC turnout 93.25-R, and installed a new vacuum sustaining pump for OPP Unit 1.



Prepping JU-6 Rotor for Removal



JU-6 Rotor Removed

OPP Unit 1 main unit rehabilitation: Motor set in place and secured. Contractor on site May 8<sup>th</sup> to begin alignment checks/adjustments. Anticipate unit available by May 31<sup>st</sup>.

### **Engineering and Planning Department**

The Engineering & Planning Department staff worked on the following projects this month: JPP unit rewind project management, Sustainable Groundwater Management Act compliance activities, DMC Flowmetering evaluation, lower DMC check structure stoplog and guide replacement project, OPP U-1 pump & penstock rehabilitation projects, concrete lining damage at DMC MP 42.50-R investigation, drawing and website management. Planning support was provided for civil, mechanical & electrical maintenance activities.

Majority of Department staff attended a First Aid/CPR/AED refresher course.

**Land Management Activity Summary:**

A total of Two (2) access permits were issued this month. Permit P1902004 issued to Ruggeri-Jensen-Azar (RJA) to conduct a topography survey for the Corral Hollow Road bridge widening project at MP14.80. Permit P1902006 was issued to ENGEO Inc. to conduct geotechnical boring for the bridge widening project a Corral Hollow Road (MP14.80) along the Delta-Mendota Canal right-of-way.

Worked with CCID on requirements for temporary and permanent turnout requirements at MP84.39-L. Received recorded easement for Vega at NWW MP4.95, and a page was left out of the recording by either the County or Reclamation. Land Surveyor is currently working with the County to determine solution as Reclamation does not want to re-record the document. Reviewed and commented flowmeter study from FCWD for MP109.45-R turnout. Prepared design drawings to fix the concrete flume, located just downstream of Check 2, that was damaged by a gravel truck last month. Notified DPWD of encroachment issues at MP18.58-L. Continued providing support to Reclamation on DMC and Wasteway bridges. Worked with Stanislaus Towing on work done on canal without an active activity permit. Worked with Provost & Pritchard on requirements to install pipe across San Luis Drain. Began working with San Joaquin County on DMC bridge guard rail extensions. Their plans are approximately 95% complete.

**Safety Department**

Support for JPP Unit 6 Rewind Project, fleet support for FY19 and FY20, CPR classes for employees, 1 accident investigation, repair to DMC at Check 2 support, new employee orientation, ordering material to support new silica regulations.

## ***EXTRAORDINARY O&M & CAPITAL PROJECTS***

### ***DELTA-MENDOTA CANAL (DMC)***

#### ***Concrete Lining Repair Design Only (1800064)***

Status: Continued gathering data on liner damage d/s of Ward road. Petrologix completed field work, and will submit their findings report early May.

#### ***O&M Road Maintenance Program - Phase 7 of 10 (1800334)***

Status: Project complete.

#### ***DMC Flow Measurement Project – Phase 1 (1700112)***

Status: No activity this month.

#### ***Replacement of Stoplog Guides on Lower DMC Check Structures – (1800859)***

Status: Fabrication and painting of the stoplog guides is complete. Design of the concrete stoplogs is in progress. Current plan is to contract out the fabrication of the concrete stoplogs and have them read for installation during the winter months when lower DMC flows are reduced.

### ***C.W. “BILL” JONES PUMPING PLANT (JPP)***

#### ***JPP - Arc Flash Study (1800167)***

Status: JPP Arc Flash Hazard Survey was completed in December 2017. The draft report is expected to be received from Reclamation in May for SLDMWA review before the report is finalized.

#### ***JPP Excitation Cabinet & Control Panel Refurbishment (1800333)***

Status: No activity this month.

### ***O’NEILL PUMPING/GENERATING PLANT (OPP)***

#### ***Design New Access Opening near Pump Bowl (1800332)***

Status: Comments received from USBR. Review comments to be addressed in mid-May.

#### ***Rehabilitate Pump Assemblies Unit No. 1 (1800196)***

Status: Re-assembly of the unit is completed. Shaft alignment is scheduled to begin on May 8<sup>th</sup>. The unit is expected to be in service by the end of the month.

#### ***Rehabilitate Unit No. 1 Penstock Interiors (1800061)***

Status: Project complete.

#### ***Unit Condition Assessment (1800168)***

Status: Project complete.

### ***TRACY FACILITIES (TFO)***

None

## **EXTRAORDINARY O&M & CAPITAL PROJECTS**

### **C.W. "BILL" JONES PUMPING PLANT (JPP) - CAPITAL PROJECTS**

#### **JPP Unit No. 6 Rewind Project Management Activities (PO No. 183673)**

Consultant: Pacific Power Engineers, Inc, Rancho Cordova, CA

Project Engineer: David Roose, PE

Scope of Services for April 2018: Services for April included tasks in four distinct areas including 1) Task 1: Submittal (stator coils & core) 3. Travel to Brownsville Texas: (32/32 hours), 2) Task 1: Submittal (stator coils & core) 2. Submittal review & approval: (26/120 hours), 3) Task 2: Heat Run, Vibration, Noise & Centerline Process Inspection 1. 3 days onsite: (24/24 hours), and 4) Task 3: Project Coordination & Inspections at Jones: (60/560 hours).

Month of April primarily was focused on-site centerline measurements, lamination removal to obtain design information, RTD location verification, submittal coordination and review, and meeting with NEC and subcontractors to confirm on-site measurements. David also traveled to Brownsville, Texas and performed a factory inspection and reviewed initial winding and stator core submittals with NEC engineering. Lastly, David provided a detailed cost benefit analysis for the rewind of the next five units at JPP which resulted in over \$2 Million savings by performing the next five rewinds on one contract.

#### **Highlight of April activities:**

- Finalize change order for JPP Unit 6 field poles re-insulation
- Provide a cost/benefit analysis for JPP future rewinds
- Validate and document RTD locations within Unit 6 stator
- Coordinate and participate on centerline measurements and lamination removal with NEC/SLDMWA
- Project coordination for submittal review with USBR
- Submittal tracking and review
- Review design winding and stator core submittals with NEC Engineers
- Inspect NEC factory at Brownsville Texas
- Calls with NEC to discuss redesign of stator winding and core
- Participate in Weekly JPP Calls with NEC

#### **Metrics:**

Task 1: NEC Design Review with USBR, NTP Discussions: \$8,745 (Feb.); \$7,155 (March)

Task 1: Submittal review & approval: \$12,190 (March), \$6,890 (April)

Task 1: Travel to Brownsville Submittal Review: \$8,480 (April)

Task 2: Heat Run, Vibration, Noise & Centerline Process Inspection: \$6,360 (March), \$6360 (April)

Task 4: Project Coordination \$15,900 (April)

Travel to Date: \$1011.89 (Feb), \$378.79 (March), \$1,885.37 (April)

Percent billed versus budget to Date: \$75,356.05/\$469,970 = 16% of Budget



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

*NOTE: ALL FIGURES ARE IN ACRE FEET*

	<b>March-2018</b>	<b>March-2017</b>
JONES PUMPING PLANT - PUMPED	168,187	226,205
DCI PLANT - PUMPED	0	22,466
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	141,345	196,078
O'NEILL P/G PLANT - GENERATED	557	0
DMC DELIVERIES	8,660	4,353
RIVER & WELL WATER INTO DMC	5,158	37
MENDOTA POOL DELIVERIES	34,576	50,915
SHASTA RESERVOIR STORAGE	3,879,600	4,031,300
SAN LUIS RESERVOIR STORAGE	1,774,086	2,014,762
FEDERAL SHARE	875,764	963,170

	<b>March-2018</b>	<b>March-2017</b>
SAN LUIS UNIT DELIVERIES	3,205	7,176
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	10,306	7,971

Jones Pumping Plant monthly average = 2,739 cfs



**San Luis & Delta-Mendota Water Authority**  
**Monthly Deliveries**  
**March 2018**

<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)
<b>Total Pumped @ Jones Pumping Plant</b>	<b>168,187</b>			
<b>Total Pumped @ DCI</b>	<b>0</b>			
<b>Total Reversed @ DCI</b>	<b>0</b>			
City of Tracy		0	0	0
Byron Bethany I.D.		163	0	163
West Side I.D.		0	0	0
Banta Carbona I.D.		0	0	0
West Stanislaus I.D.		0	0	0
Patterson I.D.		0	0	0
Del Puerto W.D.		1,092	0	1,092
Central California I.D. - above check #13		118	0	118
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		140	0	140
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		0	0	0
<b>Total Pumped @ O'Neill PP</b>	<b>(141,345)</b>			
<b>Total Generated @ O'Neill PP</b>	<b>557</b>			
Central California I.D. - below check #13		3,244	0	3,244
Grasslands W.D. (76.05-L)		1	0	1
Fish & Game Los Banos Refuge (76.05-L)		457	0	457
Fish & Wildlife Kesterson (76.05-L)		281	0	281
Freitas Unit (76.05-L)		284	0	284
Salt Slough Unit (76.05-L)		518	0	518
China Island (76.05-L)		354	0	354
San Luis W.D. - below check #13		228	0	228
Panoche W.D.		657	2	659
Eagle Field W.D.		0	0	0
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		1,121	0	1,121
River and Groundwater well pump-in	4,080			
North Valley Regional Recycled Water Program	1,078			
Change in Canal Storage	38			
Wasteway Flushing and Spill	(45)			
<b>Total Available in Delta-Mendota Canal</b>	<b>32,550</b>			
<b>TOTAL DELIVERY FROM DELTA-MENDOTA CANAL</b>	<b>(8,660)</b>	<b>8,658</b>	<b>2</b>	<b>8,660</b>
Theoretical DMC Delivery to Mendota Pool	23,890			
Total Estimated DMC Delivery to MP <i>(determined at Check 20)</i>	21,918			
Estimated (Loss) or Gain in DMC	(1,972)			
Estimated % Loss or Gain in DMC	-1.17%			



**San Luis & Delta-Mendota Water Authority**  
**Monthly Deliveries**  
**March 2018**

<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	21,918			
Mendota Pool Groundwater Well Pump-In	4,574			
(+)SJRR Releases into Mendota Pool	8,822			
(+)Kings River Flood Releases into the Mendota Pool	0			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		12,081		12,081
Columbia Canal Company (CCC)		1,155		1,155
Firebaugh Canal Water District (FCWD)		523		523
San Luis Canal Company (SLCC)		8,545		8,545
<u>Refuge:</u>		0		0
Conveyance Losses		0		0
Calif Dept of F/G-LB Unit (CCID)		152		152
Calif Dept of F/G-LB Unit (SLCC)		411		411
Calif Dept of F/G-Salt Slough Unit (CCID)		172		172
Calif Dept of F/G-China Island Unit (CCID)		118		118
US Fish & Wildlife-San Luis Refuge (SLCC)		3,085		3,085
US Fish & Wildlife-Freitas (CCID)		95		95
US Fish & Wildlife-Kesterson (CCID)		93		93
Grasslands WD (CCID)		0		0
Grasslands WD (SLCC)		88		88
Grasslands (Private)		0		0
San Luis WD Conveyance (CCID)		51		51
<u>San Joaquin River Restoration:</u>				
SJRR		6,722		6,722
<u>Other: (see MP Operations Report)</u>		1,285		1,285
<i>Total Available Water in Mendota Pool</i>	35,314			
<b>TOTAL DELIVERY FROM MENDOTA POOL</b>	<b>(34,576)</b>	<b>34,576</b>	<b>0</b>	<b>34,576</b>
*Estimated (Loss) or Gain in Mendota Pool	(738)			
*Estimated % Loss or Gain in Mendota Pool	-2.09%			
Total System Delivery	(43,236)			
<b>*Total Estimated System (Loss) or Gain</b>	<b>(2,710)</b>			
<b>*Total Estimated % System Loss or Gain</b>	<b>-1.45%</b>			

Special Notes:

**(+) Subject to Revision**





Jones Pumping Plant  
March - 2018

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	1	CONTINUOUSLY	952
2	1 to 2	0001	1770
3	2	CONTINUOUSLY	1787
4	2	CONTINUOUSLY	1852
5	2	CONTINUOUSLY	1842
6	2	CONTINUOUSLY	1841
7	2 to 3	0001	2708
8	3	CONTINUOUSLY	2717
9	3	CONTINUOUSLY	2728
10	3	CONTINUOUSLY	2731
11	3	CONTINUOUSLY	2732
12	3	CONTINUOUSLY	2725
13	3	CONTINUOUSLY	2734
14	3	CONTINUOUSLY	2693
15	3	CONTINUOUSLY	2807
16	3	CONTINUOUSLY	2669
17	3	CONTINUOUSLY	2661
18	3	CONTINUOUSLY	2636
19	3	CONTINUOUSLY	2654
20	3	CONTINUOUSLY	2655
21	3	CONTINUOUSLY	3015
22	3 to 4	0001	3411
23	4	CONTINUOUSLY	3360
24	4	CONTINUOUSLY	3358
25	4	CONTINUOUSLY	3300
26	4	CONTINUOUSLY	3301
27	4	CONTINUOUSLY	3302
28	4	CONTINUOUSLY	3442
29	4	CONTINUOUSLY	3503
30	4	CONTINUOUSLY	3508
31	4	CONTINUOUSLY	3513
AVG CFS for the month			2739



**NON-PROJECT WATER CREDITS REPORT**  
(ALL FIGURES IN ACRE FEET)  
Mar 2018 WA Credits

CREDITS UNDER WARREN ACT CONTRACTS									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
3.32-R1		0	1	0	BBID	0	0	0	0
3.32-R2		0	1	0	BBID	0	0	0	0
3.32-R3	130	130	1	0	BBID	0	0	0	0
13.31-L	4804	4804	1	0	BBID	0	0	0	0
14.26-R	5217	5217	1	0	BBID	0	0	0	0
15.11-R	1603	1603	1	0	BCID	0	0	0	0
20.42-L	3931659	4723478	1	0	BCID	1000	-50	950	950
20.42-L	3931659	4723478	1	0	UBSR/FWA	1430	0	1430	1430
21.12-L	0990	0990	1.01	0	DPWD	0	0	0	0
21.86-L	769	769	1	0	DPWD	0	0	0	0
23.41-L	124	124	1	0	DPWD	0	0	0	0
24.38-L	1763	1763	1.04	0	DPWD	0	0	0	0
29.95-R	944	944	0.87	0	DPWD	0	0	0	0
30.43-L	7421	7421	1	0	DPWD	0	0	0	0
30.43-R	2123	2123	0.92	0	DPWD	0	0	0	0
30.95-L	1913	1915	1	-2	DPWD	0	0	0	0
31.31-L1	46776	46776	1	0	WSTAN	0	0	0	0
31.31-L2	46776	46776	1	0	DPWD	0	0	0	0
31.31-L3	46776	46776	1	0	PID	0	0	0	0
31.60-L	8182	8182	0.93	0	DPWD	0	0	0	0
32.35-L	1793	1793	0.86	0	DPWD	0	0	0	0
33.71-L	748	748	0.94	0	DPWD	0	0	0	0
36.80-L	1840	1840	1	0	DPWD	0	0	0	0
37.10-L	3292	3292	0.94	0	DPWD	0	0	0	0
37.32-L	2653	2653	1	0	DPWD	0	0	0	0
42.50-R	1034	1034	1	0	DPWD	0	0	0	0
42.53-L	3771983	3846035	1	0	PID	0	0	0	0
42.53-L	3771983	3846035	1	0	DPWD	0	0	0	0
42.53-L	3771983	3846035	1	0	UBSR/FWA	1700	0	1700	1700
43.22-L	055	055	0.95	0	DPWD	0	0	0	0
48.97-L	870	870	0.95	0	SLWD	0	0	0	0
50.46-L	4105	4105	1.07	0	DPWD	0	0	0	0
51.00-R	296	296	0.89	0	DPWD	0	0	0	0
51.66-L	0337	337	0.98	0	DPWD	0	0	0	0
52.40-L	1331	1331	1	0	DPWD	0	0	0	0
58.28-L	1177	1177	1.02	0	SLWD	0	0	0	0
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	1662	1662	1	0	DPWD	0	0	0	0
<b>UPPER DMC SUB TOTAL</b>								<b>4080</b>	<b>4080</b>
78.31-L	4469	4469	1.08	0	SLWD	0	0	0	0
79.12-R	1796	1805	0.91	-8	SLWD	0	0	0	0
79.13-L	2283	2283	1	0	SLWD	0	0	0	0
79.13-R	4413	4415	1.08	-2	SLWD	0	0	0	0
79.60-L	8573	8582	0.84	-8	SLWD	0	0	0	0
79.60-R	0179	0179	1	0	CCID	0	0	0	0
79.60-R	0179	0179	1	0	SLWD	0	0	0	0
80.03-L	060	060	0.94	0	SLWD	0	0	0	0
80.03-R	638	638	1.05	0	SLWD	0	0	0	0
98.60-R	10683	10683	1	0	PANOCH/MS	0	0	0	0
98.74-L	5695	5695	1.14	0	PANOCH/MS	0	0	0	0
99.24-L	10493	10493	0.92	0	PANOCH/MS	0	0	0	0
100.70-L	6211	6211	0.91	0	PANOCH/MS	0	0	0	0
<b>LOWER DMC SUB TOTAL</b>								<b>0</b>	<b>0</b>
<b>WARREN ACT CONTRACT CREDIT TOTAL</b>								<b>4080</b>	<b>4080</b>
<b>TOTAL GROSS PUMP-IN</b>								<b>CREDIT</b>	
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)						0		0	0
TOTAL (SAN LUIS WATER DISTRICT)						0		0	0
TOTAL (PANOCH/MS WATER DISTRICT)						0		0	0
TOTAL (MERCY SPRINGS WATER DISTRICT)						0		0	0
TOTAL (FIREBAUGH WATER DISTRICT)						0		0	0
<b>Other Warren Act Conveyance Credit Totals</b>									
Del Puerto Water District:						0		0	0
Banta Carbona Irrigation District:						1000		950	950
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 PID:						1430		1430	1430
San Joaquin River Restoration Pump Back BCID:						1700		1700	1700

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



## CREDITS FOR EXCHANGE AGREEMENTS WITH CCID

(ALL FIGURES IN ACRE FEET)

March, 2018 EC AGMT Credits

CREDITS UNDER EXCHANGE AGREEMENTS WITH CCID	MONTH	YEAR
<i>DEL PUERTO WATER DISTRICT</i>	0	0
<i>SAN LUIS WATER DISTRICT</i>	0	0
<i>PACHECO WATER DISTRICT</i>	0	0
<i>PANOCHE WATER DISTRICT</i>	0	0
<i>WESTLANDS WATER DISTRICT</i>	0	0
<i>FIREBAUGH CANAL WATER DISTRICT</i>	0	0
<i>EXCHANGE AGREEMENT CREDIT TOTAL</i>	0	0



## MENDOTA POOL OPERATIONS

2018

ALL FIGURES IN ACRE-FEET

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FCWD	0	0	0										0
CCID	0	0	0										0
FRESNO SLOUGH	56	350	108										514
TPUD	0	12	16										28
JAMES I.D.	2998	6746	0										9744
MEYERS	714	352	0										1066
M.L. DUDLEY & INDART <sup>1</sup>	104	113	142										359
MID VALLEY* (Kings River)	0	0	0										0
REC. DIST. 1606	8	6	5										19
STATE FISH & WILDLIFE	1428	896	242										2566
TRACTION	543	544	103										1190
UNMETERED	120	125	50										295
Total	2091	1565	395										4051
COELHO FAMILY TRUST <sup>2</sup>	286	465	131										882
TRANQUILITY I.D.	336	2259	474										3069
WESTLANDS LATERAL-6	0	0	0										0
WESTLANDS LATERAL-7	0	0	0										0
LEMPESIS V.L. <sup>3</sup>	0	4	14										18
<b>TOTAL</b>	<b>6593</b>	<b>11872</b>	<b>1285</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19750</b>

NUMBERS SHOWN IN **BOLD** WERE REVISED AFTER DISTRIBUTION OF REPORT

1 aka COELHO-GARDNER-HANSEN 2 aka TERRA LINDA FARMS 3 aka WILSON JW

Duck Clubs (Percent Full)

BECK	120	PATOS	COLE	TRANQUILITY	1 ACRE
0%	0%	0%	0%	0%	0%

Jan, 2018

DMC Inflow 27,918 A.F.

James Bypass Flows 0 A.F.

Feb, 2018

DMC Inflow 73,588 A.F.

James Bypass Flows 0 A.F.

Mar, 2018

DMC Inflow 21,918 AF

James Bypass Flows 0 AF

Apr, 2018

DMC Inflow AF

James Bypass Flows AF

May, 2018

DMC Inflow A.F.

James Bypass Flows A.F.

June, 2018

DMC Inflow A.F

James Bypass Flows A.F.

July, 2018

DMC Inflow A.F.

James Bypass Flows A.F.

Aug, 2018

DMC Inflow A.F.

James Bypass Flows A.F.

Sept, 2018

DMC Inflow A.F

James Bypass Flows A.F.

Oct, 2018

DMC Inflow A.F

James Bypass Flows AF

Nov, 2018

DMC Inflow A.F

James Bypass Flows A.F.

Dec, 2018

DMC Inflow AF

James Bypass Flows AF



NUMBERS SHOWN IN **BOLD** WERE REVISED AFTER DISTRIBUTION OF REPORT

1 aka TERRA LINDA FARMS

2 aka COELHO-GARDNER-HANSEN

## Spill Back Credit

[illegible]



## **SAN LUIS UNIT DELIVERIES**

(ALL FIGURES IN ACRE-FEET)  
March 2018

### ***O'NEILL FOREBAY AND POOL 13, SAN LUIS CANAL***

O'NEILL FOREBAY WILDLIFE AREA		188
SAN LUIS WATER DISTRICT	AG	251
	M&I	31
V.A. CEMETERY		5
<b>SUBTOTAL</b>		<b>475</b>

### ***SAN LUIS CANAL, POOLS 14 THRU 21***

SAN LUIS WATER DISTRICT	AG	1870
	M&I	1
PANOCHE WATER DISTRICT	AG	771
	M&I	6
PACHECO WATER DISTRICT	AG	0
	M&I	0
PACHECO C.C.I.D. NON PROJECT		82
<b>SUBTOTAL</b>		<b>2730</b>

<b>TOTAL SAN LUIS UNIT</b>	<b>3205</b>
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PANOCHE M&I INCLUDES 1 A.F. @ 89.70-L DOS PALOS

SAN LUIS WATER DISTRICT WELL WATER CREDIT- M.P. 79.67-R = 0

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### **MONTHLY DELIVERIES FOR SAN FELIPE UNIT**

SANTA CLARA VALLEY W.D.	9959
SAN BENITO CO. W.D.	347
CASA DE FRUTA	0
<b>TOTAL</b>	<b>10306</b>



## Monthly Availability Report

O'Neill Pump/Generating Plant

March - 2018

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	743	743.0	100.00%	0.0	0.00%	0.00%	0	0	
Unit-2	743	0.0	0.00%	11.1	1.49%	98.51%	1	0	
Unit-3	743	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-4	743	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-5	743	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Unit-6	743	0.0	0.00%	0.0	0.00%	100.00%	1	0	
Total	4458	743.0	17%	11.1	0.25%	82.75%	5	0	

Notes:

(1) Planned maintenance

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



## Monthly Availability Report

CW "Bill" Jones Pumping Plant

March - 2018

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	743	0.0	0.00%	0.0	0.00%	100.00%	2	
Unit-2	743	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-3	743	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-4	743	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-5	743	0.0	0.00%	6.4	0.86%	99.14%	3	
Unit-6	743	423.3	56.97%	0.0	0.00%	43.03%	2	
Total	4458	423.3	9%	6.4	0.14%	90.86%	10	

Notes:

(1) Planned maintenance

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





## Monthly Availability Report

DCI Pumping Plant

March - 2018

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	743	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-2	743	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-5	743	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-6	743	0.0	0.00%	0.0	0.00%	100.00%	0	
Total	2972	0.0	0%	0.0	0.00%	100.00%	0	

Notes:

(1) Planned maintenance

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