



# SAN JACINTO RIVER AUTHORITY

## Woodlands Division MUD Report for February 2018

### OPERATING STATISTICS FOR FEBRUARY 2018

#### WASTEWATER

#### WASTEWATER TREATMENT MONTHLY VALUES

Parameter	WWTF No. 1 (Outfall 001)		WWTF No. 2		WWTF No. 3	
	<u>Permitted</u>	<u>Reported</u>	<u>Permitted</u>	<u>Reported</u>	<u>Permitted</u>	<u>Reported</u>
Flow (avg.-high; MGD)	7.8 avg.	3.552-6.014	6.0 avg.	3.892-5.912	0.9 avg.	0.537-0.724
2-Hour Peak Flow (MGD)	18	11.800	15.56	9.200	3.6	1.270
CBOD5 (30 Day avg.; mg/l)	10	4.1	10	2.7	10	3.0
TSS (30 Day avg.; mg/l)	15	3.6	15	2.6	15	4.9
NH3-N (30 Day avg.; mg/l)	3	0.3	2.6	0.1	3	1.4
pH (min-max.; su)	6.0 - 9.0	6.4-6.9	6.0 - 9.0	6.9 - 7.7	6.0 - 9.0	6.9 - 7.5
DO (minimum; mg/l)	4.0 (min)	7.54	4.0 (min)	7.31	6.0 (min)	7.38
Disinfection (max Cl2; mg/l)	0.1 mg/l	1.37	NA	NA	1 mg/l (min) 4 mg/l (max)	1.05 3.98
E.coli (max col/100 ml)	200	4.0	200	102	399	2.0

\* No Violations

#### WATER WATER PUMPED/PRODUCED

Parameter	January 2018		February 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	5,596,000	4,446,000	5,245,000	4,021,000
Minimum (gal/day)	3,458,000	3,949,000	3,819,000	3,297,000
Peak-day (gal/day)	12,881,000	5,339,000	6,363,000	4,792,000
Monthly (gallons)	173,474,000	137,832,000	146,847,000	112,586,000
Percentage GW/SW	56%	44%	57%	43%
Average Avail. Capacity (MGD)	63,528,000	NA	66,582,000	NA
Rainfall (inches)	3.06		8.50	
Total Usage	311,306,000		259,433,000	

*(Total water usage decreased by 19.43% compared to February 2017)*

Cumulative Total Water Usage: 570,739,000 gallons  
(January 1, 2018 through February 28, 2018)

**PROJECT UPDATE**  
(As of February 28, 2018)

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
1	WPSP1 – Wastewater Treatment Facility No. 1 Solids Processing <u>Bond funded</u>	Texas Water Development Board (TWDB) bond funds have been secured to fund construction of the project. The design of the project is complete. TWDB has reviewed and approved the documents for construction. The project advertised for proposals beginning February 9, 2018, and three (3) proposals were received March 1, 2018. The proposals are being evaluated. The project will go to construction in Spring 2018.	Design \$630,000  Construction \$5,519,000	Design \$567,832  Construction TBD	\$567,832	\$540,739	Jan 2019
	WT1DW – Wastewater Treatment Facility No. 1 Additional Sludge Dewatering Unit <u>Capacity funded</u>	This project will be completed in conjunction with WPSP1 (above). WT1DW is a capacity project providing the additional belt filter press for the project.	Design \$16,721  Construction \$1,190,000	Design \$16,721  Construction TBD	\$16,721	\$16,166	
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	Contractor continues with the masonry exterior and the interior walls. Seal slab for Chlorine Contact Basin was installed the week of February 19th, and the contractor has started forming for the foundation.	Design \$448,000  Construction \$6,500,000	Design \$439,245  Construction \$6,226,191	\$6,665,436	\$1,403,133	Nov 2018

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
3	WWFM5R – Lift Station No. 5 Force Main Replacement	The force main and lift station rehabilitation projects were combined previously for design and bidding purposes. All proposals received in September 2016 were substantially higher than was budgeted. The project is being repackaged in FY2018 with the addition of the remaining 1/3 of the force main along McDonald Road. Design of the project is ongoing. The consultant completed the 60% design submittal and is now working toward the 90% design submittal.	Design \$688,000  Construction \$3,781,000	Design \$197,709  Construction \$TBD	\$197,709	\$98,578	Sep 2019
	WW1603 – Lift Station No. 5 Rehabilitation	The diversion pumping system is in place and operating. The Contractor has begun placing corrosion resistant wet well cement coating. The Contractor has completed removing and replacing the dry pit pumps, piping and valves.	Design \$232,000  Construction \$1,100,000	Design \$50,130  Construction \$962,046	\$1,012,176	\$563,726	Aug 2018
4	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	TWDB bond funds have been secured for final design and construction of the project. Completed contract negotiations with ARKK, and the final design contract was approved at the SJRA December 2017 Board meeting. TWDB is nearing the end of its	Design \$1,882,000	Design \$370,308	\$370,308	\$370,308	Apr 2020

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		review of the final design contract. A design kickoff meeting will be scheduled following TWDB approval.					
5	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Submittal review is in progress. Critical locates have been performed. Contractor will mobilize to this location in April 2018. Project is on schedule.	Design \$237,000  Construction \$1,577,000	Design \$126,366  Construction \$524,415	\$650,781	\$131,089	May 2018
6	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Submittal review is in progress. Critical locates have been performed. Contractor has mobilized to site and will begin installation of new manholes and associated piping for wet well soon. Project is on schedule.	Design \$266,000  Construction \$1,459,000	Design \$235,155  Construction \$1,251,807	\$1,486,962	\$308,970	May 2018
7	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Submittal review is in progress. Critical locates have been performed. Contractor will mobilize to this site in March 2018. Project is on schedule.	Design \$68,000  Construction \$372,000	Design \$103,012  Construction \$474,146	\$577,158	\$102,227	May 2018
8	WA17WL – Water Distribution – Looping Water Mains	This project was designed in-house by SJRA Technical Services. Currently, working with Contractor to set date for mobilization, but work may start in April / May to allow for less interference with school traffic.	Design \$198,000  Construction \$972,000	Design \$36,708  Construction \$363,701	\$400,409	\$37,958	Jun 2018

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9	WA1601 – Rehabilitation of Water Well Nos. 3 and 17	Contractor obtained substantial completion on February 15 <sup>th</sup> and is currently working on punch list items. Final completion will be awarded soon.	Design \$38,000  Construction \$276,000	Design \$0  Construction \$517,323	\$517,323	\$400,705	Feb 2018
10	WAEST4 – Elevated Storage Tank No. 4 Rehabilitation	Contractor has completed all blasting and painting on both interior and exterior of tank and containment has been taken down. Contractor is finalizing their scope of work and will obtain substantial completion soon.	Design \$51,000  Construction \$603,000	Design \$36,410  Construction \$484,588	\$520,998	\$383,820	Apr 2018
11	WA17CT – Communication Reliability and Tower Improvements	This project is being designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. The first draft of the procurement package has been sent out for review and comments.	Design \$38,000  Construction \$383,000	Design \$0  Construction \$21,360	\$21,360	\$21,568	May 2018
12	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	Design of the sanitary sewer rehabilitation is ongoing. The consultant completed the 90% design submittal, and is now working toward the 100% design submittal.	Design \$60,000  Construction \$1,328,000	Design \$60,421  Construction TBD	\$60,421	\$41,848	Jul 2019

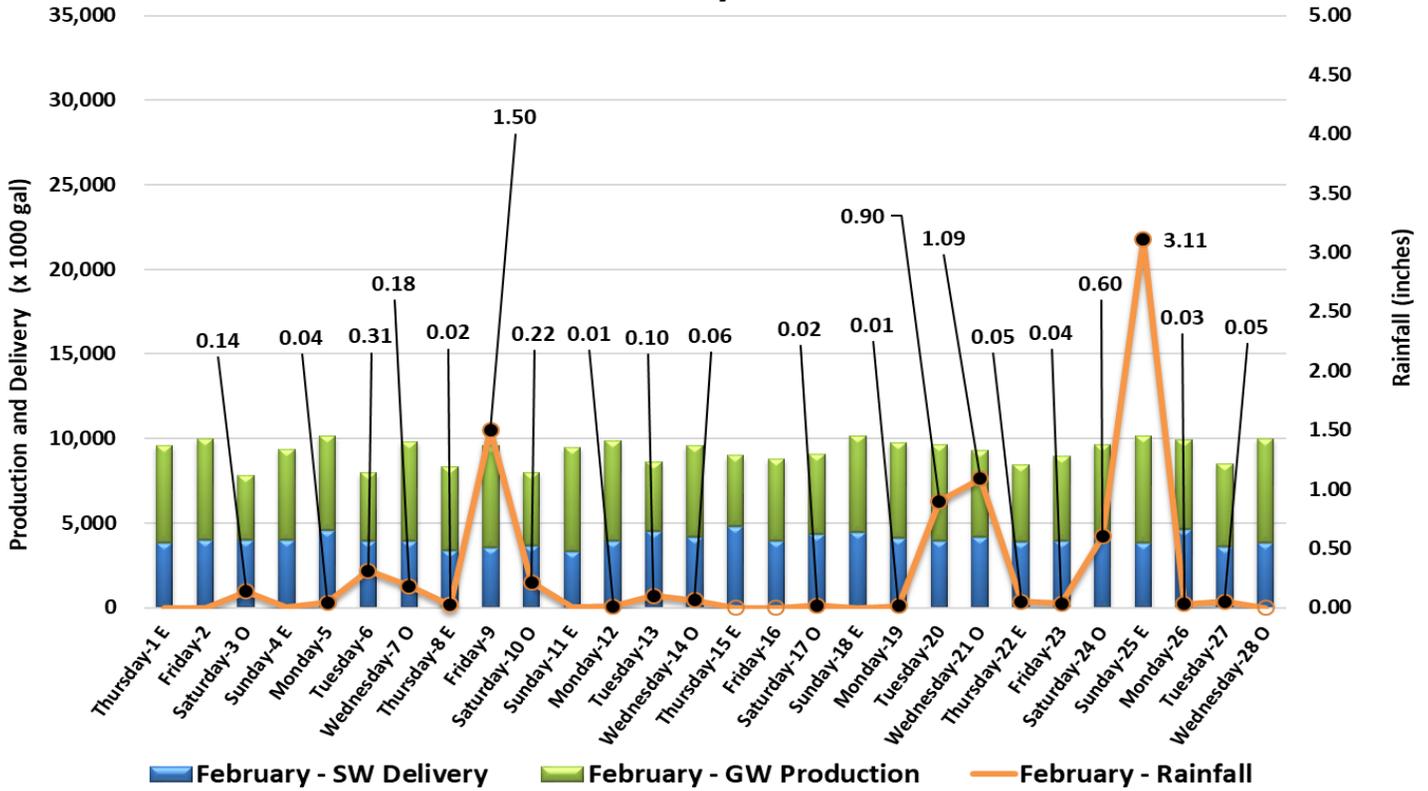
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
13	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	TWDB bond funds have been secured for design and construction of the project. The preliminary design contract was approved by the SJRA Board at the SJRA January 2018 Board meeting. The preliminary design contract was presented to TWDB in February 2018 for review and approval; TWDB is currently reviewing the contract.	Design \$1,191,000 Construction 5,279,000	Design \$499,758 Construction TBD	\$499,758	\$0	Sep 2020
	WW1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Capacity funded</u>	This project will be completed in conjunction with WWF1AB. WW1AB is a capacity project providing the additional treatment capacity for the project.	Design \$117,000 Construction \$1,920,000	Design TBD Construction \$TBD	\$0	\$0	
14	WARB34- Water Well No. 34 Rehabilitation	This project is being designed in-house by SJRA Technical Services in order to rehabilitate Water Well No. 34 following mechanical issues that arose in late July 2017. Initially, this project was to be procured as a full rehabilitation; however, initial procurement will now include inspection only and a separate procurement package will be developed following inspection.	Design \$0 Construction \$300,000	Design \$0 Construction \$TBD	\$0	\$0	Sep 2018

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
15	WA17SI – Water System Security Improvements	This project will enhance security for the Woodlands Division water facilities. Notice to proceed was given to Preferred Technologies on January 29, 2018 for the work to be performed. Work is underway.	Design \$0  Construction \$573,000	Design \$0  Construction \$624,114	\$624,114	\$264,403	Sep 2018

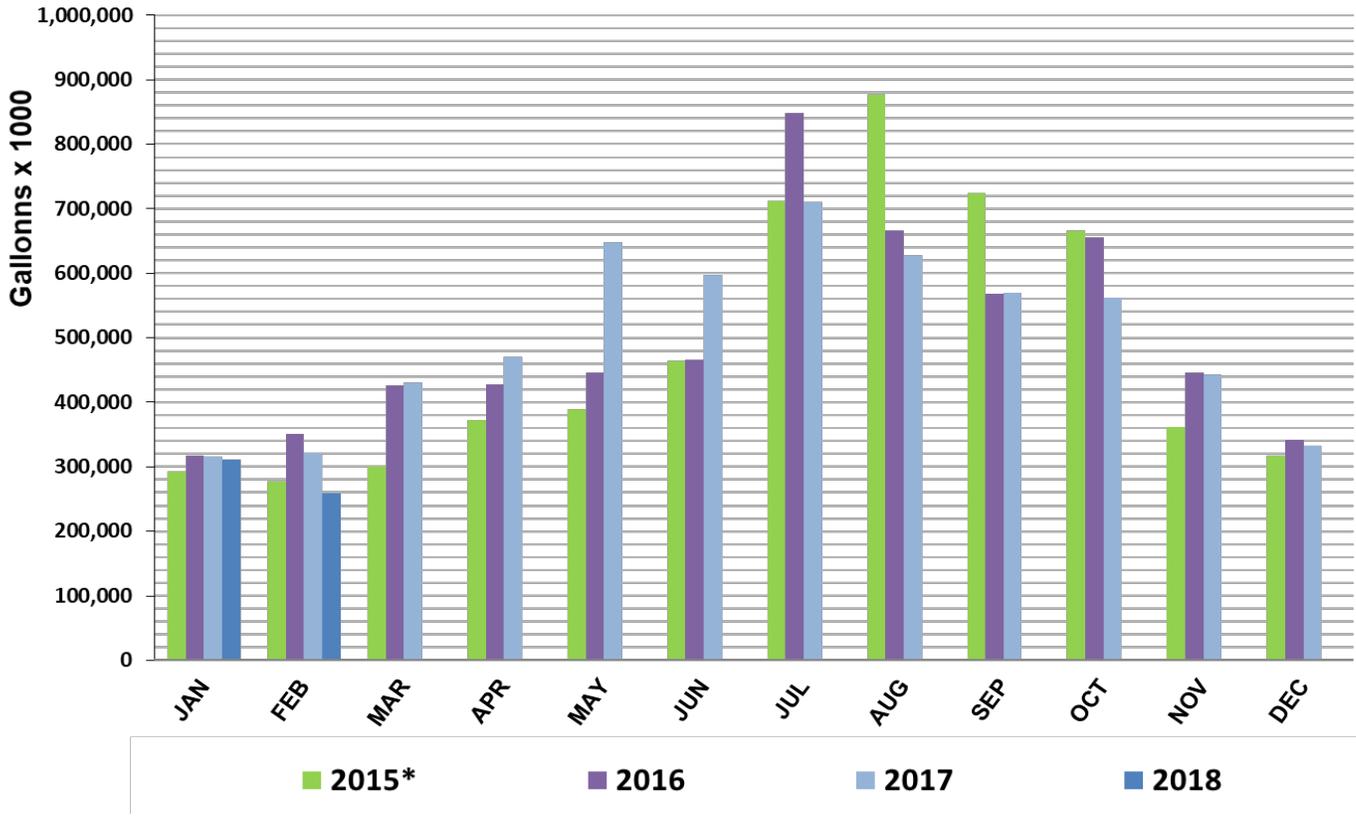
\* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project in final completion stage.

## Woodlands Production, Delivery and Rainfall February 2018



## Woodlands Production and Delivery 2015 - 2018



\*Introduction of surface water September 2015