



# SAN JACINTO RIVER AUTHORITY

## Woodlands Division MUD Report for June 2018

### WASTEWATER

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.	3.249-4.980	6.0 avg.	3.729-4.358	0.9 avg.	0.518-0.614
2-Hour Peak Flow (MGD)	18	13.350	15.56	7.330	3.6	1.210
CBOD5 (30 Day avg.; mg/l)	10	2.7	10	2.2	10	2.8
TSS (30 Day avg.; mg/l)	15	2.8	15	2.3	15	3.1
NH3-N (30 Day avg.; mg/l)	3	0.5	2.6	0.1	3	0.1
pH (min-max)	6.0 - 9.0	6.58 – 7.17	6.0 - 9.0	6.69 – 7.54	6.0 - 9.0	7.05 – 7.61
DO (minimum; mg/l)	4.0 (min)	7.29	4.0 (min)	6.05	6.0 (min)	6.75
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.03 3.70
E.coli (max col/100 ml)	200	2.0	200	55.0	399	2.0

\* No Excursions

### WATER

Parameter	May 2018		June 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	11,286,000	8,285,000	10,196,000	10,906,000
Minimum (gal/day)	4,493,000	6,270,000	3,236,000	8,733,000
Peak-day (gal/day)	16,688,000	10,342,000	17,009,000	13,164,000
Monthly (gallons)	349,864,000	256,850,000	305,874,000	327,172,000
Percentage GW/SW	57%	43%	48%	52%
Average Avail. Capacity (MGD)	61,169,000	NA	64,246,000	NA
Rainfall (inches)	5.16		4.58	
Total Usage	606,714,000		633,046,000	
Fiscal year-to-date blend	55.5% Groundwater / 44.5% Surface water			

*(Total water usage increased by 6.02% compared to June 2017)*

Cumulative Total Water Usage: 2,701,257,000 gallons – January - June 2018

### ENVIRONMENTAL

Parameter	June 2018
Current Total Permits	465
Interceptor Inspections	151
Enforcement Action Taken	8
Permit Renewals Pending <i>(No response to renewal application.)</i>	0

**PROJECT UPDATE**

(As of June 30, 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 Bond funded	The project advertised for construction proposals in February 2018, and three (3) proposals were received March 1, 2018. The construction contract for Industrial TX Corp. was approved at the SJRA April 2018 Board meeting. Executed contracts for construction were sent to TWDB for review and approval. Following TWDB approval, the project will go to construction in Summer 2018.	Design \$630,000  Construction \$5,519,000	Design \$585,874  Construction \$5,179,793	\$5,765,667	\$540,739	Jul 2019
	WT1DW – Wastewater Treatment Facility No. 1 Additional Sludge Dewatering Unit Capacity funded	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 \$17,208  Construction \$937,000			
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	Contractor completed concrete portion of the Chlorine Contact Basin. They are in the process of drying in the building to begin installation of material. Progress Meeting No. 7 took place on 06/19/2018.	Design \$448,000  Construction \$6,500,000	Design \$439,245  Construction \$6,228,655	\$6,667,900	\$3,023,523	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	Design of the project is ongoing. The consultant completed the 90% on May 07, 2018. The 100% design submittal is underway; however, final completion is pending easement acquisition along McDonald Road.	Design \$688,000  Construction \$4,510,000	Design \$503,136  Construction TBD	\$503,136	\$169,064	Jan 2020
	WW1603 – Lift Station No. 5 Rehabilitation	Substantial Completion was awarded on June 5 <sup>th</sup> . The contractor is currently addressing punch list items identified during the substantial completion walkthrough.	Design \$232,000  Construction \$1,100,000	Design \$50,130  Construction \$1,013,223	\$1,063,354	\$976,602	Aug 2018
4	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The final design contract was approved at the SJRA December 2017 Board meeting. TWDB completed its review of the final design contract and authorized release of funds. The final design kickoff meeting was held on April 10, 2018, and the design consultant was given Notice to Proceed on April 13, 2018. The design consultant is currently working on the 60% submittal and identifying access routes to the project site at multiple locations.	Design \$1,882,000  Construction \$16,299,000	Design \$992,963  Construction TBD	\$992,963	\$370,308	Apr 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
5	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor has mobilized to the site and demolition of existing paving is in progress. Bypass pumping will begin soon.	Design \$237,000  Construction \$1,577,000	Design \$126,366  Construction \$524,415	\$650,781	\$148,951	Sep 2018
6	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Installation of remaining new manholes and associated piping is in progress along with the installation of wet well.	Design \$266,000  Construction \$1,459,000	Design \$235,155  Construction \$1,252,057	\$1,487,212	\$600,569	Sep 2018
7	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Rehabilitation of the wet well is in progress. Entergy has begun to de-energize and remove transformer the week of 07/05/18 to allow contractor to proceed with civil scope of the work.	Design \$68,000  Construction \$372,000	Design \$103,012  Construction \$480,730	\$583,742	\$264,038	Sep 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 is planned to start in mid-July to allow for less interference with school traffic. Also, the HDPE pipe will not be available for installation until mid-July.	Design \$198,000  Construction \$972,000	Design \$36,708  Construction \$363,701	\$400,409	\$37,958	Aug 2018

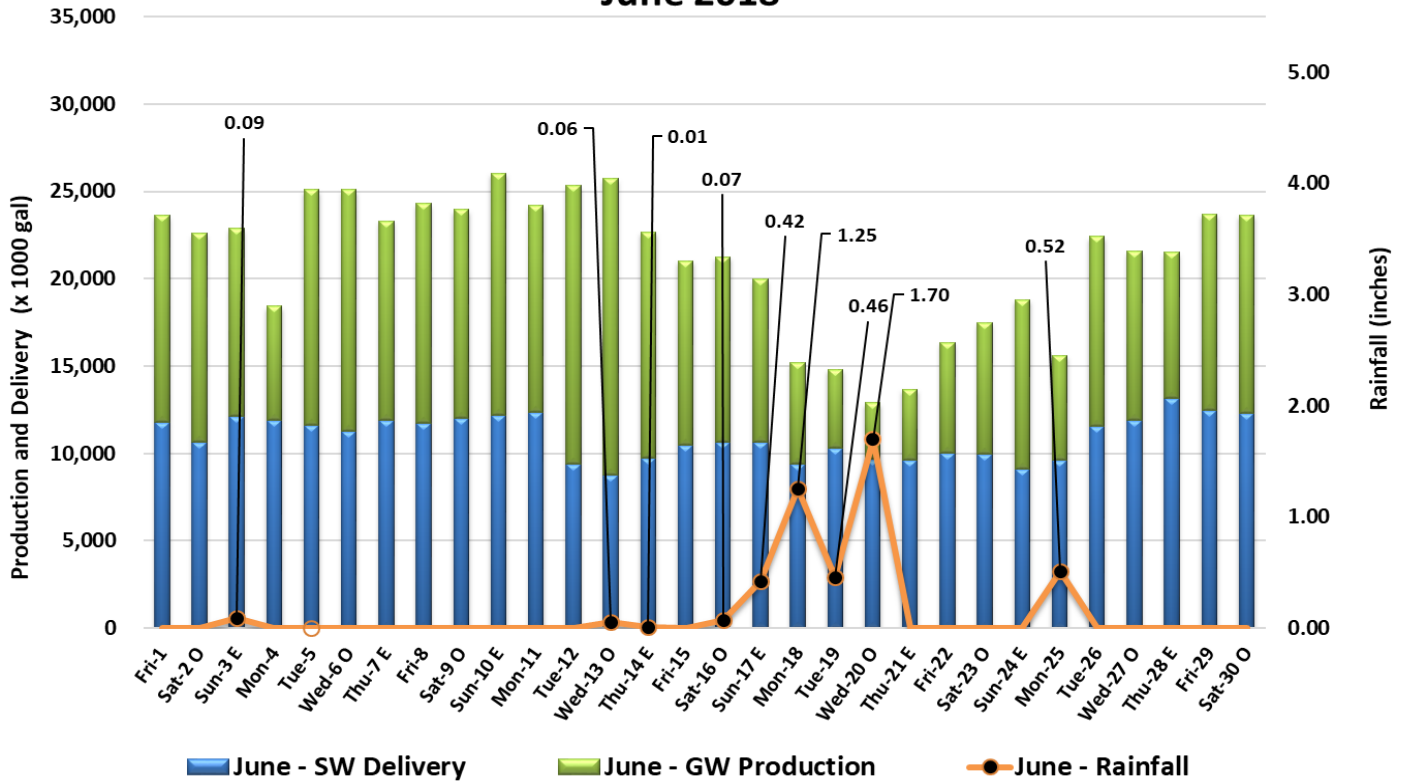
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
9	WA17CT – Communication Reliability and Tower Improvements	This project was designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. Allstate Tower was awarded the construction contract for replacement of the tower at Water Plant No. 2. A kick-off meeting was held on May 18, 2018 and the contractor is providing submittals for SJRA review. The tower installation work is set to being mid-July 2018.	Design \$38,000  Construction \$383,000	Design \$0  Construction \$76,727	\$76,727	\$21,933	Sep 2018
10	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	The design for this project is complete. Three (3) proposals for construction were received on June 28, 2018. SJRA is evaluating the construction proposals.	Design \$60,000  Construction \$1,328,000	Design \$60,421  Construction TBD	\$60,421	\$49,586	Jul 2019
11	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	The preliminary design kickoff meeting was held on April 12, 2018, and the design consultant was given Notice to Proceed on April 13, 2018. Preliminary design is underway.	Design \$1,191,000  Construction \$5,279,000	Design \$500,863  Construction TBD	\$500,863	\$1,105	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	

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
12	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. The project is scheduled to advertise by late-July 2018. A consultant will assist with the inspection of the well components once they are removed.	Design \$0  Construction \$300,000	Design \$0  Construction TBD	\$0	\$0	Dec 2018
13	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 \$673,000	Design \$0  Construction \$668,608	\$668,608	\$530,257	Oct 2018

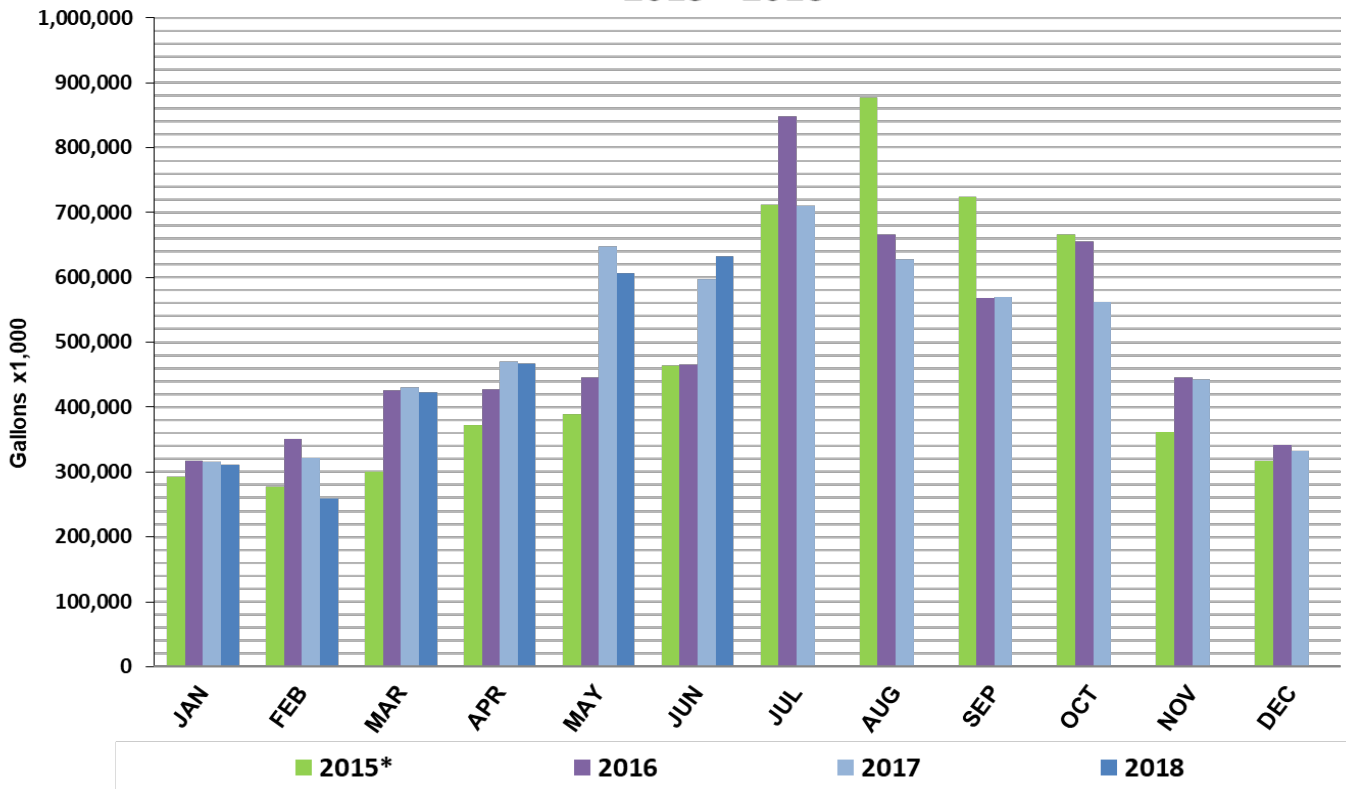
\* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

## Woodlands Production, Delivery and Rainfall June 2018



## Woodlands Production and Delivery 2015 - 2018



\*Introduction of surface water September