



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for September 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.	3.673-5.703	6.0 avg.	3.794-4.759	0.9 avg.	0.541-0.694
2-Hour Peak Flow (MGD)	18	15.100	15.56	9.670	3.6	1.490
CBOD5 (30 Day avg.; mg/l)	10	3.5	10	2.2	10	2.9
TSS (30 Day avg.; mg/l)	15	2.8	15	1.8	15	3.8
NH3-N (30 Day avg.; mg/l)	3	0.1	2.6	0.2	3	0.1
pH (min-max)	6.0 - 9.0	6.74-7.24	6.0 - 9.0	6.38-7.51	6.0 - 9.0	7.18
DO (minimum; mg/l)	4.0 (min)	7.13	4.0 (min)	6.09	6.0 (min)	7.30
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.03	NA	NA	1 mg/l (min) 4 mg/l (max)	1.02 3.30
E.coli (max col/100 ml)	200	79.0	200	22.0	399	2.0

* No Excursions

WATER

Parameter	August 2018		September 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	11,359,000	10,444,000	8,556,000	6,657,000
Minimum (gal/day)	6,324,000	7,260,000	4,756,000	5,935,000
Peak-day (gal/day)	19,493,000	12,606,000	18,006,000	7,657,000
Monthly (gallons)	352,126,000	323,765,000	256,689,000	199,720,000
Percentage GW/SW	51%	49%	55%	45%
Average Avail. Capacity (MGD)	59,358,000	NA	61,480,000	NA
Rainfall (inches)	4.63		9.63	
Total Usage	675,891,000		456,409,000	
Fiscal year-to-date blend	55% Groundwater / 45% Surface water			

(Total water usage decreased 19.83% compared to September 2017)

Cumulative Total Water Usage: 456,409,000 gallons – September 2018

ENVIRONMENTAL

Parameter	September 2018
Current Total Permits	476
Interceptor Inspections	156
Enforcement Action Taken	8

PROJECT UPDATE
(As of September 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 <u>Bond funded</u>	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. TWDB completed its review of construction contracts and authorized release of funds. The contractor's Notice to Proceed date is September 5, 2018. Construction is in progress and the contractor is working on preparing the site. The first progress meeting was held on September 26, 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 <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 \$17,208 Construction \$937,000	\$954,208	\$17,208	

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	Continuing the process of drying in the building and installation of interior components. Progress Meeting No. 10 took place on September 27, 2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,228,655	\$6,690,780	\$3,023,523	Dec 2018
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. Easement acquisition is in progress.	Design \$688,000 Construction \$4,510,000	Design \$503,136 Construction TBD	\$503,136	\$169,064	Jan 2020
4	WW1603 – Lift Station No. 5 Rehabilitation	Substantial Completion was awarded on June 5 th . The contractor has completed all punch list items. Working with contractor to close-out project.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,018,657	\$1,068,787	\$976,602	Aug 2018
5	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	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
		consultant provided the 60% design submittal on August 2, 2018. Contractor access routes and construction staging sites have been identified and developed, and are being discussed with landowners.					
6	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor poured duct banks, and formed electrical building pad. During the second week of October, contractor will put plant on bypass and start coating the wet well, remove electrical building and components, replace pump and piping for recoating.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$534,711	\$661,077	\$148,951	Dec 2018
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor working to complete sinking of the lift station wet well into place. Also, they are working to complete the installation of remaining manholes.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,263,640	\$1,498,795	\$600,659	Dec 2018
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	The transformer pad was placed and inspected on September 14, 2018. The contractor will continue to work to place junction boxes, pour duct banks, and continue to work on electrical items.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$490,168	\$593,180	\$264,038	Dec 2018
9	WA17WL – Water Distribution – Looping Water Mains	Contractor has completed line at Ken Lakes Drive, partial substantial completion was given on 08/28/2018. Contractor has completed the work on Research Forest, and a partial substantial inspection will be scheduled. The next location to start will be	Design \$198,000 Construction \$972,000	Design \$47,879 Construction \$376,428	\$424,307	\$37,958	Feb 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
		Chipwyck Way/FM2978. This has yet to be scheduled. The replacement of the 12-inch water line crossing Panther Branch at Grogan's Point has been added to this project. Aviles Engineering performed two soil borings on September 21, 2018 to investigate soil strata. Work continues on drawings and specifications.					
10	WA17CT – Communication Reliability and Tower Improvements	This project was designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. The foundation, tower and antenna have been installed. Final adjustments are being made. This project will be completed in October.	Design \$38,000 Construction \$383,000	Design \$0 Construction \$76,727	\$76,727	\$21,933	Oct 2018
11	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. A construction contract was awarded to IPR South Central at the SJRA August 2018 Board meeting. A preconstruction meeting is in the process of being scheduled.	Design \$60,000 Construction \$1,328,000	Design \$60,421 Construction \$1,277,079	\$1,337,500	\$49,586	Jul 2019
12	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 ongoing.	Design \$1,191,000 Construction \$5,279,000	Design \$500,863 Construction TBD	\$500,863	\$115,205	

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
	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	Sep 2020
13	WARB34- Water Well No. 34 Inspection	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 to remove and inspect the well equipment to determine the reason for the issues and to make recommendations for repair. Two proposals were received on September 13, 2018. The recommendation for award is being finalized.	Design \$0 Construction \$300,000	Design \$0 Construction TBD	\$0	\$0	Dec 2018
14	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 \$588,166	\$668,608	\$530,257	Jan 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
15	WWSES – Sanitary Sewer Transmission Assessment and Renewal (STAR) Program – Phase I Project	This Phase I project consists of planning-level engineering to identify and investigate areas of excessive infiltration and inflow in the wastewater collection system, while conducting a condition assessment of the collection system. The consultant’s contract was approved at the SJRA September 2018 Board meeting. A kickoff meeting is in the process of being scheduled.	Planning \$1,510,000	Planning \$1,758,675	\$1,758,675	\$0	Aug 2020

* 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.

Don't forget the Meet & Greet!

Thursday, October 18th

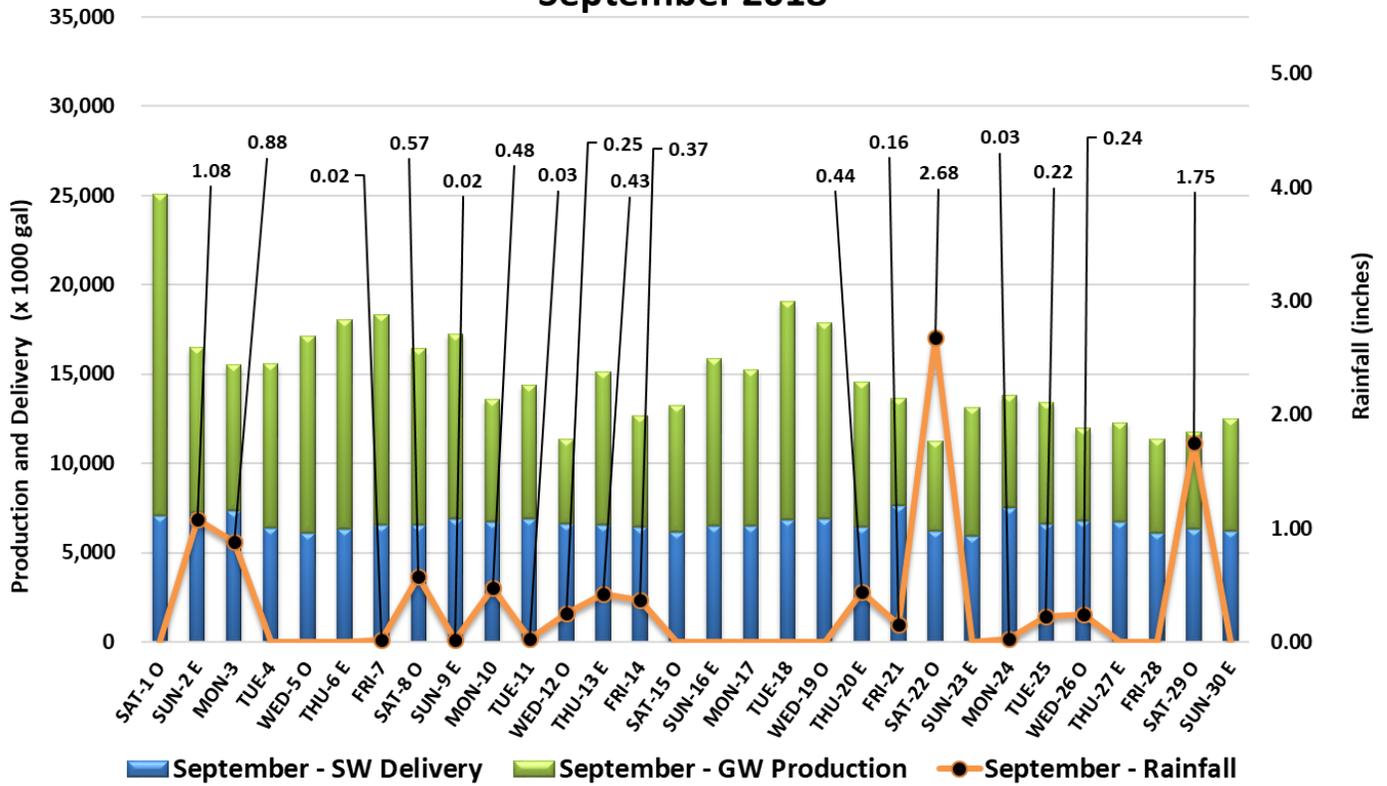
SJRA Woodlands Maintenance Shop

2436 Sawdust Road

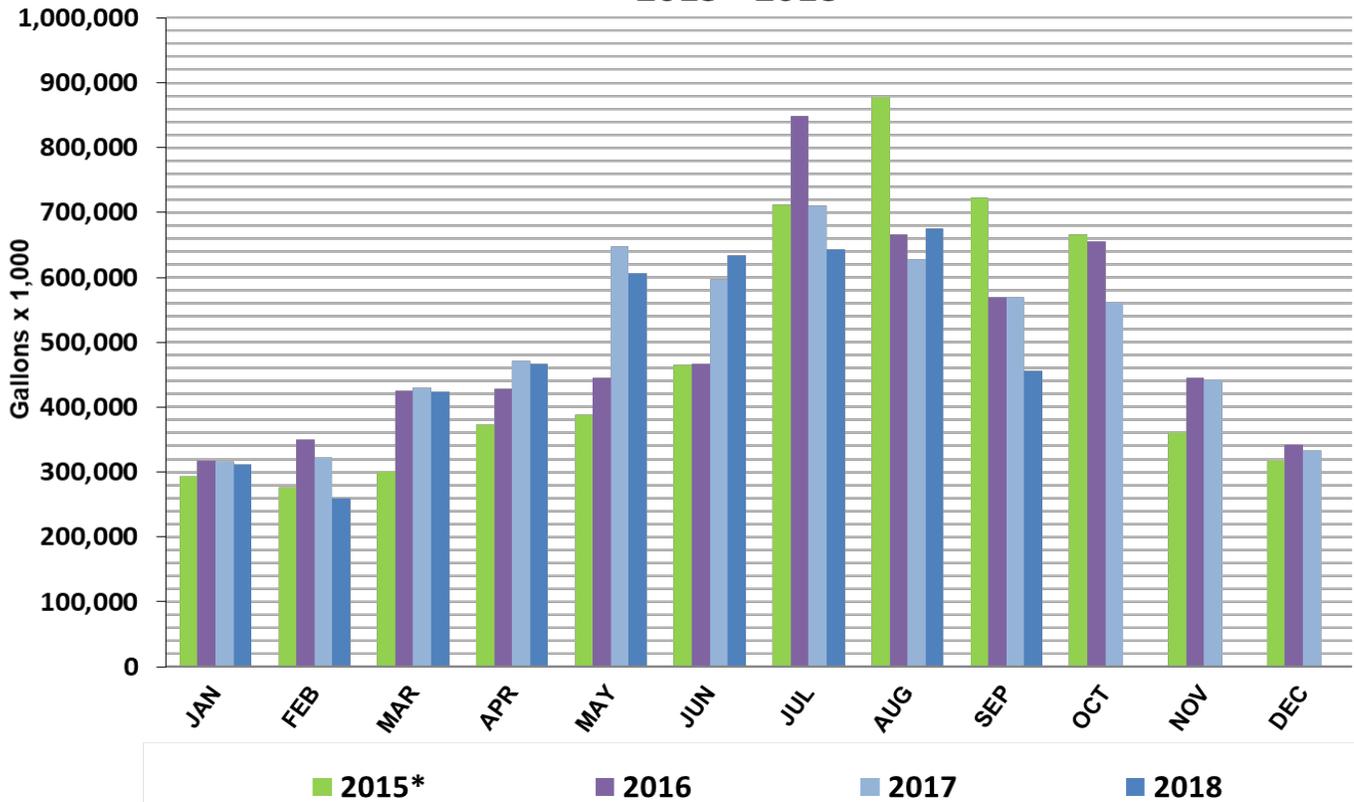
11:00 AM

(Lunch provided by our Maintenance Techs)

Woodlands Production, Delivery and Rainfall September 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water Sep 2015