



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for October 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.	3.302-3.918	6.0 avg.	3.736-4.450	0.9 avg.	0.525-0.673
2-Hour Peak Flow (MGD)	18	16.730	15.56	9.660	3.6	1.900
CBOD5 (30 Day avg.; mg/l)	10	4.1	10	2.6	10	3.4
TSS (30 Day avg.; mg/l)	15	2.3	15	1.6	15	1.9
NH3-N (30 Day avg.; mg/l)	3	0.1	2.6	0.2	3	0.1
pH (min-max)	6.0 - 9.0	6.34-7.30	6.0 - 9.0	6.67-7.64	6.0 - 9.0	7.04-8.11
DO (minimum; mg/l)	4.0 (min)	6.34	4.0 (min)	6.16	6.0 (min)	7.19
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.05	NA	NA	1 mg/l (min) 4 mg/l (max)	1.04 3.80
E.coli (max col/100 ml)	200	2.0	200	72.0	399	2.0

* No Excursions

WATER

Parameter	September 2018		October 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	8,556,000	6,657,000	6,052,000	5,623,000
Minimum (gal/day)	4,756,000	5,935,000	4,437,000	4,887,000
Peak-day (gal/day)	18,006,000	7,657,000	8,794,000	6,359,000
Monthly (gallons)	256,689,000	199,720,000	187,599,000	174,322,000
Percentage GW/SW	55%	45%	52%	48%
Average Avail. Capacity (MGD)	61,480,000	NA	62,089,000	NA
Rainfall (inches)	9.63		4.35	
Total Usage	456,409,000		361,921,000	
Fiscal year-to-date blend	53% Groundwater / 47% Surface water			

(Total water usage decreased 35.61% compared to October 2017)

Cumulative Total Water Usage: 818,330,000 gallons – September 2018 - October 2018

ENVIRONMENTAL

Parameter	October 2018
Current Total Permits	476
Interceptor Inspections	148
Enforcement Action Taken	19

PROJECT UPDATE
(As of October 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 contractor was given Notice to Proceed on October 5, 2018 and has begun providing submittals. Construction is in progress and the contractor has mobilized to the site. The second progress meeting was held on October 24, 2018.	Design \$630,000 Construction \$5,519,000	Design \$585,874 Construction \$5,179,793	\$5,765,667	\$587,489	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	The Contractor continues the process of drying in the building and installation of interior components. Progress meeting no. 10 took place on October 27, 2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,327,404	\$6,766,650	\$5,201,778	Dec 2018
3	WWFM5R – Lift Station No. 5 Force Main Replacement	Design of the project is ongoing. The consultant completed the 90% design 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 \$527,496 Construction TBD	\$527,496	\$219,731	Mar 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	\$983,503	Aug 2018
5	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The design 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.	Design \$1,882,000 Construction \$16,299,000	Design \$992,963 Construction TBD	\$992,963	\$370,308	Apr 2020
6	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Contractor has put site on bypass and coated wet well. All electrical components have been removed	Design \$237,000	Design \$126,366			

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
		from the old building and some components have moved to the new electrical building. Once electrical work is completed the Lift Station will be put into service.	Construction \$1,577,000	Construction \$534,711	\$661,077	\$408,533	Jan 2019
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor continues 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	\$795,018	Jan 2019
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	The transformer was placed and inspected on October 22, 2018 by Entergy. 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	\$436,546	Jan 2019
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 completion was given on 10/09/2018. The next location to start will be 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 and working on	Design \$198,000 Construction \$972,000	Design \$47,879 Construction \$387,599	\$435,478	\$308,236	Feb 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
		investigation report, which is due the first week of November 2018. 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 \$78,076	\$78,076	\$78,076	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 was held on November 1, 2018. The contractor’s Notice to Proceed date will be November 26, 2018.	Design \$60,000 Construction \$1,328,000	Design \$60,421 Construction \$1,277,079	\$1,337,500	\$61,396	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	\$224,327	Sep 2020

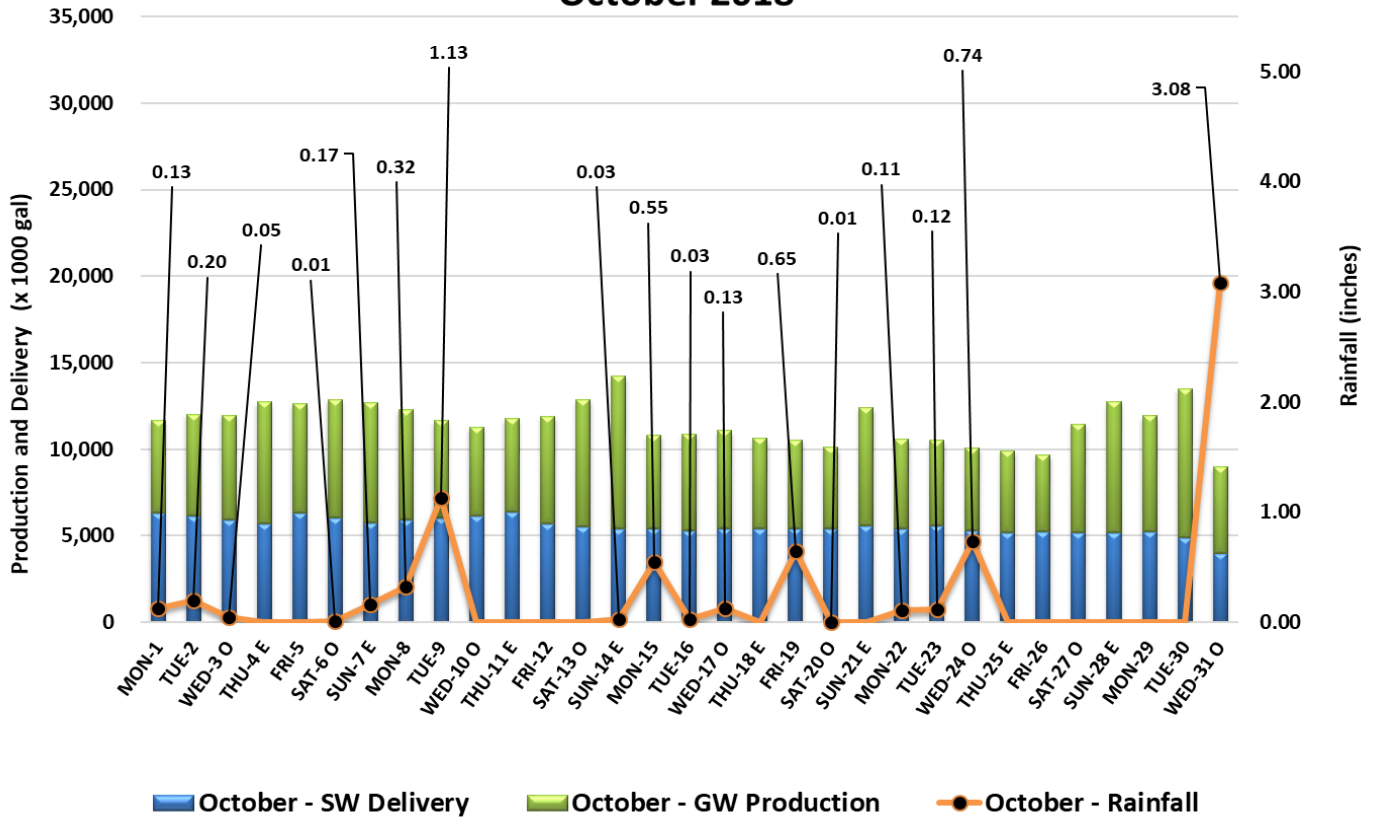
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
	WW1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Capacity funded</u>	This project will be completed in conjunction with WWF1AB. WW1AB is a capacity project providing the additional treatment capacity for the project.	Design \$117,000 Construction \$1,920,000	Design TBD Construction TBD	\$0	\$0	
13	WARB34- Water Well No. 34 Inspection	This project is to remove and inspect the well equipment at Water Well No. 34. Two proposals were received on October 13, 2018. The recommendation for award was made for Weisinger. The contracts are being finalized.	Design \$0 Construction \$300,000	Design \$0 Construction \$24,240	\$24,240	\$0	Jan 2019
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 \$673,000	Design \$0 Construction \$673,027	\$673,027	\$534,677	Jan 2019
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. A kickoff meeting was held on October 26, 2018.	Planning \$1,510,000	Planning \$1,758,675	\$1,758,675	\$0	Aug 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
16	WW2MCC - Wastewater Treatment Facility No. 2 Plant Process Water (PPW) Motor Control Center (MCC) Replacement	This project includes the engineering services for the final design and procurement assistance for WWTF No. 2 PPW MCC replacement. Notice to Proceed was issued to Kalluri Group Inc. and a kickoff meeting was held on October 16, 2018.	Design \$64,000 Construction \$322,000	Design \$52,151 Construction TBD	\$52,151	\$0	Sep 2019
17	WA4GT2 - Water Plant No. 4 Ground Storage Tank No. 2	This project is for the construction of a second ground storage tank at Water Plant No. 4. Work Order No. 2 for preliminary and final design was approved at the SJRA Board of Directors meeting on October 25, 2018. An NTP will be issued upon receipt of the Purchase Order.	Design \$620,000 Construction \$3,413,000	Design \$244,436 Construction TBD	\$244,436	\$0	Dec 2020
18	WW19LS – Lift Station No. 13 Rehabilitation	This project is for the rehabilitation of Lift Station No. 13. Notice to Proceed for preliminary design was given to Kimley-Horn on November 5, 2018. A kickoff meeting is being scheduled for early November.	Design \$266,000 Construction \$1,460,000	Design \$74,636 Construction TBD	\$74,636	\$0	Sep 2020

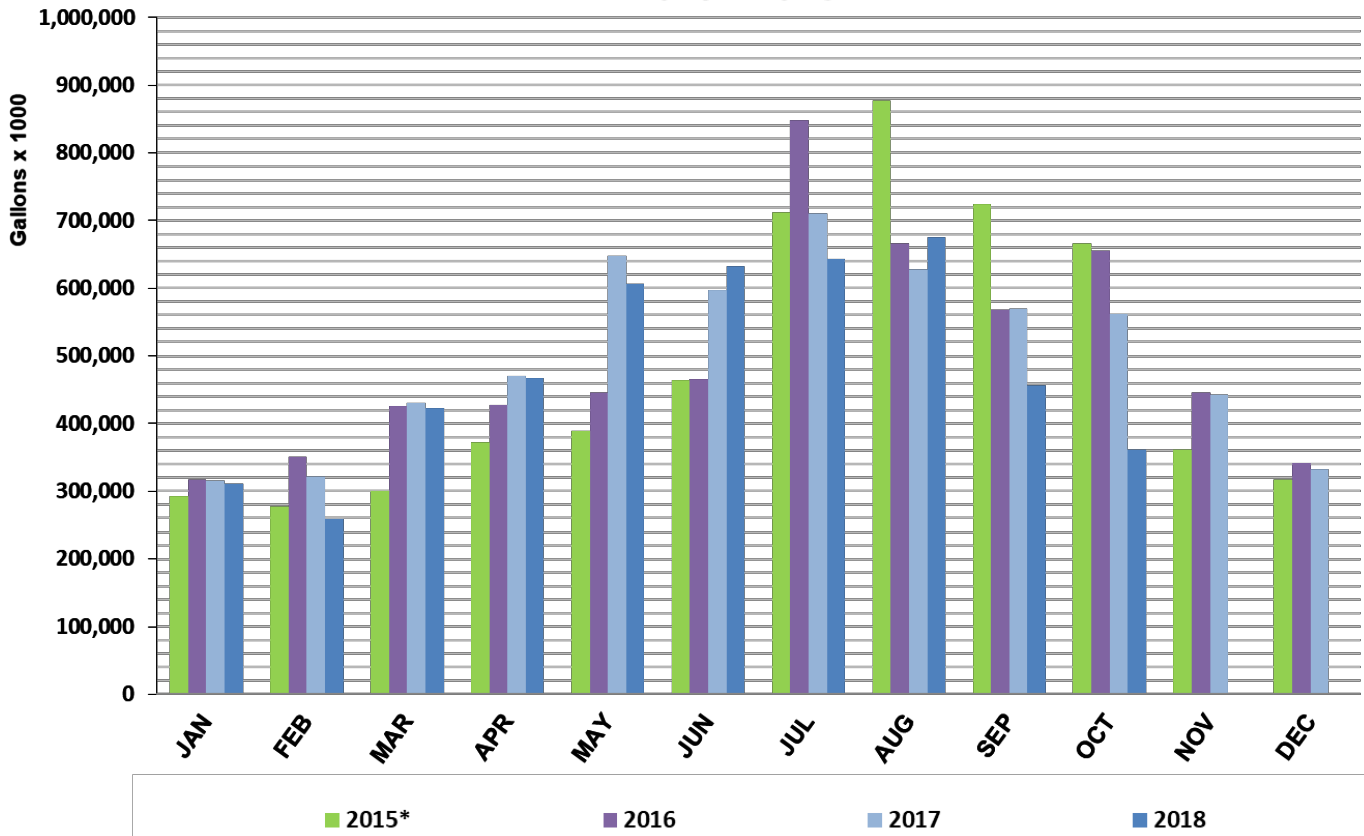
* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall October 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water Sep 2015