



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for August 2018



*You are invited to a
Meet and Greet*

Thursday, October 18

Time: 11:00 AM

SJRA Woodlands Division

Maintenance Building

2436 Sawdust Road

(Lunch will be provided.)



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.	3.353-4.312	6.0 avg.	3.832-5.202	0.9 avg.	0.548-0.863
2-Hour Peak Flow (MGD)	18	7.290	15.56	6.313	3.6	1.380
CBOD5 (30 Day avg.; mg/l)	10	3.3	10	2.4	10	3.1
TSS (30 Day avg.; mg/l)	15	2.2	15	1.9	15	3.5
NH3-N (30 Day avg.; mg/l)	3	0.3	2.6	0.2	3	0.1
pH (min-max)	6.0 - 9.0	6.62-7.07	6.0 - 9.0	6.59-7.55	6.0 - 9.0	7.12-7.96
DO (minimum; mg/l)	4.0 (min)	7.12	4.0 (min)	6.21	6.0 (min)	6.82
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.02 3.71
E.coli (max col/100 ml)	200	2.0	200	6.0	399	2.0

* No Excursions

WATER

Parameter	July 2018		August 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	9,882,000	10,882,000	11,359,000	10,444,000
Minimum (gal/day)	2,886,000	7,489,000	6,324,000	7,260,000
Peak-day (gal/day)	17,752,000	13,702,000	19,493,000	12,606,000
Monthly (gallons)	306,348,000	337,335,000	352,126,000	323,765,000
Percentage GW/SW	46%	54%	51	49
Average Avail. Capacity (MGD)	63,753,000	NA	59,358,000	NA
Rainfall (inches)	7.59		4.63	
Total Usage	643,683,000		675,891,000	
Fiscal year-to-date blend	55% Groundwater / 45% Surface water			

(Total water usage increased 7.72% compared to August 2017)

Cumulative Total Water Usage: 5,927,160,000 gallons – September 2017 - August 2018

ENVIRONMENTAL

Parameter	August 2018
Current Total Permits	465
Interceptor Inspections	120
Enforcement Action Taken	10

PROJECT UPDATE
(As of August 31, 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. A preconstruction meeting was held August 27, 2018. The contractor's Notice to Proceed date is September 5, 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	Contractor is working on backfill portion of the Chlorine Contact Basin. Continuing the process of drying in the building and installation of interior components. Progress Meeting No. 9 took place on August 21, 2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,228,655	\$6,667,900	\$3,023,523	Nov 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.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,013,223	\$1,063,353	\$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 consultant provided the 60% 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
		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. For next month, 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 \$524,415	\$650,781	\$148,951	Nov 2018
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor has poured the last lift and are in the process of sinking the lift station. For next month, contractor intends to install additional Manholes and piping for manholes. They will also be forming the valve pad.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,252,057	\$1,487,212	\$600,659	Nov 2018
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Rehabilitation of the wet well is in progress. Entergy transformer removed on July 19, 2018. Contractor coated pipe and regraded soil, string lined the transformer and set pumps and rails. Contractor intends to pour duct banks, work on electrical components, replace the fence, and hose bib.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$480,730	\$583,742	\$264,038	Nov 2018

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
9	WA17WL – Water Distribution – Looping Water Mains	<p>Preconstruction meeting held on July 18, 2018 and NTP issued for July 23, 2018. Contractor has completed line at Ken Lakes Drive, partial substantial completion was given on 08/28/2018. Contractor has now mobilized to the section at Research Forest.</p> <p>The replacement of the 12-inch water line crossing Panther Branch at Grogan’s Point will be added to this project. Aviles Engineering has been procured to perform soil borings and testing to allow for proper design of the replacement water line.</p>	<p>Design \$198,000</p> <p>Construction \$972,000</p>	<p>Design \$47,879</p> <p>Construction \$363,701</p>	\$411,580	\$37,958	Feb 2019
10	WA17CT – Communication Reliability and Tower Improvements	<p>This project was designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. The foundation and the tower have both been installed. The Contractor will return early September to install the antenna at the top.</p>	<p>Design \$38,000</p> <p>Construction \$383,000</p>	<p>Design \$0</p> <p>Construction \$76,727</p>	\$76,727	\$21,933	Sep 2018
11	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	<p>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 will be scheduled in September.</p>	<p>Design \$60,000</p> <p>Construction \$1,328,000</p>	<p>Design \$60,421</p> <p>Construction TBD</p>	\$60,421	\$49,586	Jul 2019

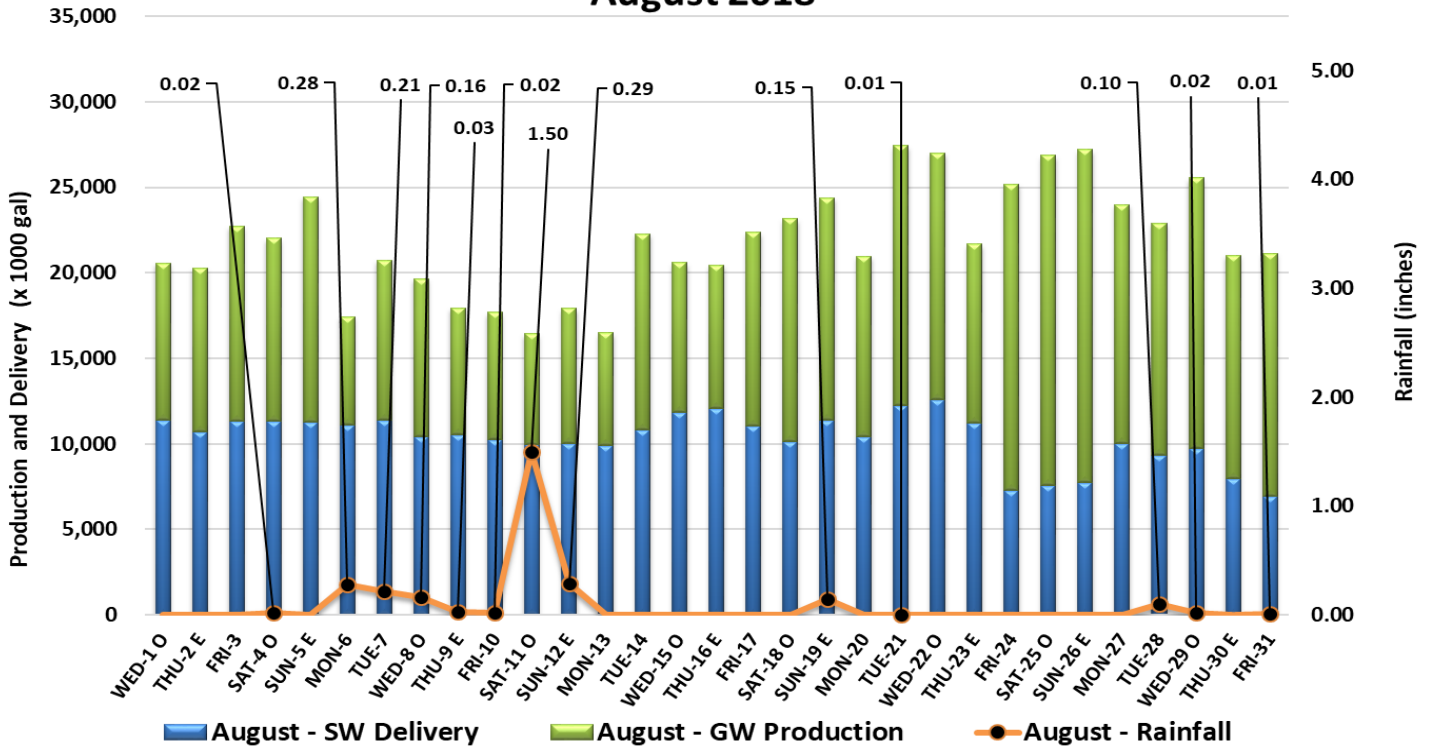
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12	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	The preliminary design kickoff meeting was held on April 12, 2018, and the design consultant was given Notice to Proceed on April 13, 2018. Preliminary design is ongoing.	Design \$1,191,000	Design \$500,863	\$500,863	\$115,205	Sep 2020
			Construction \$5,279,000	Construction TBD			
13	WARB34- Water Well No. 34 Inspection	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	Design TBD	\$0	\$0	
			Construction \$1,920,000	Construction TBD			
14	WA17SI – Water System Security Improvements	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 is being advertised and proposals will be received on September 13, 2018. 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	Design \$0	\$0	\$0	Dec 2018
			Construction \$300,000	Construction TBD			
			Design \$0	Design \$0	\$668,608	\$530,257	Oct 2018
			Construction \$573,000	Construction \$588,166			

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15	WWSES – Sanitary Sewer Transmission and 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 will be presented at the SJRA September 2018 Board meeting for approval.	Planning \$1,510,000	Planning TBD	\$0	\$0	Aug 2020

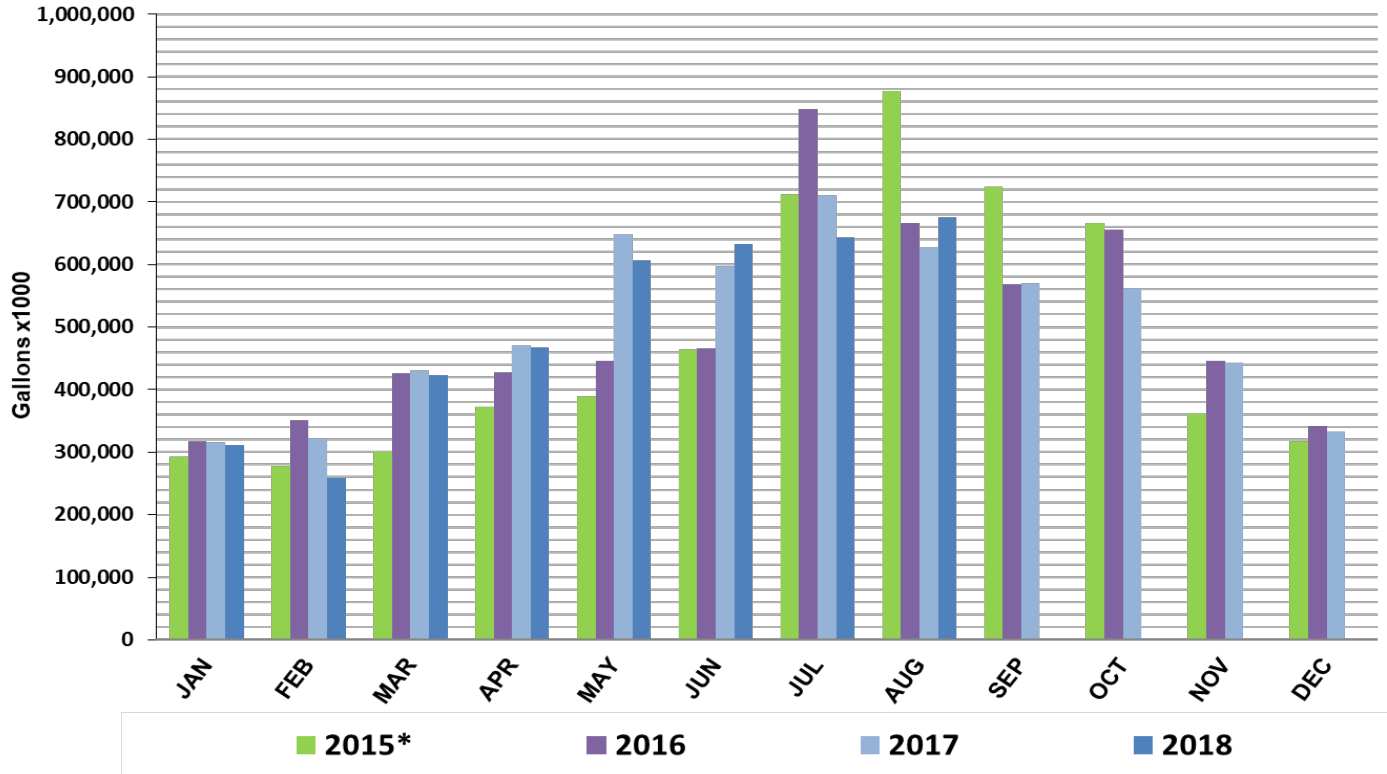
* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall August 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water Sep 2015