



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for April 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.	3.229-3.616	6.0 avg.	3.699-6.350	0.9 avg.	0.534-0.683
2-Hour Peak Flow (MGD)	18	7.760	15.56	6.000	3.6	1.150
CBOD5 (30 Day avg.; mg/l)	10	4.2	10	2.8	10	2.7
TSS (30 Day avg.; mg/l)	15	3.2	15	2.0	15	2.6
NH3-N (30 Day avg.; mg/l)	3	0.2	2.6	0.2	3	0.2
pH (min-max.; su)	6.0 - 9.0	6.60-7.13	6.0 - 9.0	6.94-7.57	6.0 - 9.0	7.11-7.57
DO (minimum; mg/l)	4.0 (min)	7.64	4.0 (min)	7.31	6.0 (min)	6.72
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.04	NA	NA	1 mg/l (min) 4 mg/l (max)	1.20 3.82
E.coli (max col/100 ml)	200	3,470*	200	3.4	399	2.0

* Violation for E. Coli at WWTF No.1. Reason for the elevated reading is inconclusive. All readings pre and post have been less than 2.0.

WATER

Parameter	March 2018		April 2018	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	9,218,000	4,444,000	9,272,000	4,901,000
Minimum (gal/day)	5,137,000	2,863,000	5,137,000	1,706,000
Peak-day (gal/day)	14,703,000	5,328,000	14,703,000	7,170,000
Monthly (gallons)	285,752,000	137,765,000	320,212,000	147,029,000
Percentage GW/SW	67%	33%	68%	32%
Average Avail. Capacity (MGD)	63,009,000	NA	62,445,000	NA
Rainfall (inches)	5.32		2.51	
Total Usage	423,517,000		467,241,000	
Fiscal year-to-date blend	57% Groundwater / 43% Surface water			

(Total water usage decreased by 0.71% compared to April 2017)

Cumulative Total Water Usage: 1,461,507,000 gallons – January - April 2018

ENVIRONMENTAL

Parameter	April 2018
Current Total Permits	463
Interceptor Inspections	99
Enforcement Action Taken	9
Permit Renewals Pending <i>(No response to renewal application.)</i>	45



SJRA – Woodlands
April 2018 Interceptor Program Update

Food Service Establishment (FSE) with no permit

Establishment	Address	Status
Panda Express	3375 College Park Dr.	Application submitted
Rico's	8000 Research Forest Dr. #200	Application submitted
Sweet's	1950 Hughes Landing Blvd.	Application submitted
Ciltrano's	(kiosk inside The Woodlands Mall)	Application submitted
Taconation	8021 Research Forest Dr.	Application submitted
Blend Bar	1701 Lake Robbins Dr.	Application submitted
Mainly Subs	7 Switchbud Place Suite 194	Application submitted

FSEs with outstanding enforcement actions

Establishment	Address
Amerigo's	25250 Grogan's Park Dr.

FSEs that have not renewed their permit

Establishment	Address
Tournament Course	1730 S. Milbend Road, Woodlands TX 77380
Shell #6	4725 West Panther Creek
Wingstop #200	6777 Woodlands Parkway Suite 324, Woodlands TX 77382
MOD Pizza	6777 Woodlands Parkway #314
Orange Leaf Frozen Yogurt	6777 Woodlands Parkway #212
Subway #32099	6777 Woodlands Parkway Suite 318, Woodlands TX 77382
La Cantina	6777 Woodlands Parkway, Spring TX 77382
Starbucks #10654	10716 Kuykendahl Rd
Pei Wei Asian Dinner	10868 Kuykendahl Rd #E, Woodlands TX 77381
Chiller's Bee Yogurt	10868 Kuykendahl Road #A
Player's Golf Course	8900 Sterling Ridge Dr.
Timewise Food Store #803	10190 Woodlands Pkwy
Subway #40390	30340 FM 2978 #700
Starbucks #13988	9955 Woodlands Pkwy
Goose's Acre	21 Waterway Ave #140
Grimaldi's Burger	20 Waterway Ave #110
Grimaldi's Pizza	21 Waterway Ave #110
Morton's Grille	25 Water Way
Marriott The Woodlands Waterway/Hotel	1601 Lake Robbins Dr.
Bar Louie, Tavern & Grill	24 Waterway Ave #175
The Refuge Bar & Bistro	24 Waterway Ave - Suite 110
Burger Fi	1501 Lake Robbins #100
Panera Bread # 4034	1201 Lake Woodlands Dr. Woodlands 77380
Barnes & Noble	1201 Lake Woodlands Dr. #308
Cheesecake Factory #0071	1201 Lake Woodlands Drive, Woodlands TX 77380
Woodlands Mall Landlord Vault #6	1201 Lake Woodlands Dr.
Macaroni Grill	1155 Lake Woodlands Dr.
Bonfish Grill #0911	1555 Lake Woodlands Dr. Woodlands TX 77380
Carlos Bakery Kitchen	1201 Lake Woodlands Dr. #5600
Pretzel Maker	1201 Lake Woodlands Dr. #1074
Auntie's Anne's	1201 Lake Woodlands Dr. #2014
Sonic Drive In Vault # 7	1201 Lake Woodlands Dr. # 2164
Great American Cookie Vault # 6	1201 Lake Woodlands Dr. #2145
1252 Tapas Bar	9595 Six Pines Dr. #670
Starbucks	9595 Six Pines Dr. #970, Woodlands TX 77380
Cinemark Market Street 5 - #356	9595 Six Pines #8200
Local Pour - Bldg. A&B	1900 Hughes Landing Blvd - #350
Macaron By Pattise	1950 Hughes Landing Blvd - #1775
Whole Foods Market	1925 Hughes Landing Blvd, Site 100
Westin at The Woodlands	2 Waterway Square Place
Anadarko Allison Tower	1201 Lake Robbins, Woodlands TX 77380
Kirby's Steakhouse	1111 Timberloch Place, Woodlands TX 77380
Huntsman Cafeteria	10003 Woodloch Forest Drive, Woodlands TX 77380
Timewise Food Store #275	1395 Many Pines
Children's Courtyard, The	10505 Six Pines Drive

PROJECT UPDATE
(As of April 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. Executed contracts for construction are being prepared and will be provided to TWDB for review and approval. Following TWDB approval, the project will go to construction in Spring 2018.	Design \$630,000 Construction \$5,519,000	Design \$567,832 Construction \$5,179,793	\$5,747,625	\$540,739	May 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 \$937,000	\$953,721	\$16,653.68	
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System <u>Improvements</u>	Contractor is pouring inside walls for the Chlorine Contact Basin. They have poured approximately 280 ft. with 420 ft. pending which will include the perimeter. Progress Meeting No. 5 took place on 04/17/2018.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,228,655	\$6,667,900	\$2,267,157	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 60% design submittal and is now working toward the 90% design submittal. Working on easement acquisition process along McDonald Road.	Design \$688,000 Construction \$3,781,000	Design \$483,136 Construction TBD	\$483,136	\$145,101	Sep 2019
	WW1603 – Lift Station No. 5 Rehabilitation	The diversion pumping system is in place and operating. The Contractor has completed painting/coating the pipe, valves, and fittings. The Contractor has also completed placing corrosion resistant wet well cement coating, removing/replacing the dry pit pumps, piping and valves. The pumps are set to be commissioned this week. A Substantial Completion walkthrough will take place soon.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,012,845	\$1,062,975	\$826,612	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.	Design \$1,882,000 Construction \$16,299,000	Design \$370,308 Construction TBD	\$370,308	\$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 will set up bypass pumping and begin demolition soon. Project is on schedule.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$524,415	\$650,781	\$139,657	Sept 2018
6	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Installation of new manholes and associated piping is in progress along with the installation of wet well. Project is on schedule.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,252,057	\$1,487,212	\$430,748	Sept 2018
7	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Contractor has mobilized to site and rehabilitation of the wet well is in progress. Project is on schedule.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$474,146	\$577,158	\$163,544	Sept 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-June to allow for less interference with school traffic. Also, the HDPE pipe will not be available for installation until mid-June.	Design \$198,000 Construction \$972,000	Design \$36,708 Construction \$363,701	\$400,409	\$37,958	July 2018
9	WAEST4 – Elevated Storage Tank No. 4 Rehabilitation	Contractor is addressing punch list items on site. Final completion will be issued soon.	Design \$51,000 Construction \$603,000	Design \$36,410 Construction \$484,588	\$520,998	\$391,728	May 2018

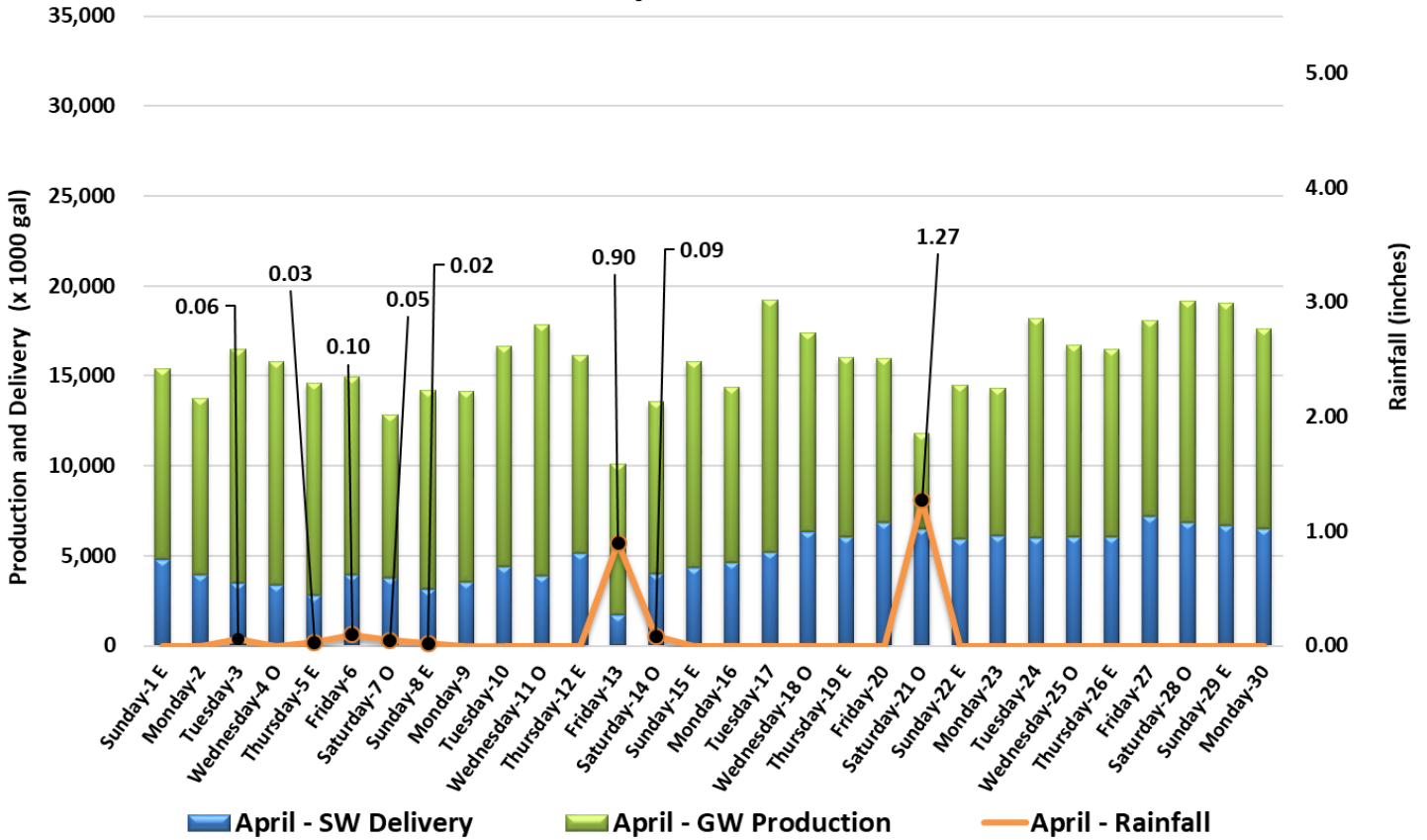
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
10	WAI7CT – Communication Reliability and Tower Improvements	This project was designed in-house by SJRA SCADA/I&C Department with assistance from SJRA Technical Services. Two proposals were received for the tower replacement at Water Plant No. 2 on April 26, 2018. The proposals are under \$75,000 and are being evaluated by SJRA staff.	Design \$38,000 Construction \$383,000	Design \$0 Construction \$21,572	\$21,572	\$21,568	Sept 2018
11	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. The project will go to construction in Fall 2018.	Design \$60,000 Construction \$1,328,000	Design \$60,421 Construction TBD	\$60,421	\$47,072	Jul 2019
12	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	The preliminary design contract was approved at the SJRA January 2018 Board meeting. The preliminary design contract was presented to TWDB in February 2018 for review and approval; TWDB completed its review of the preliminary design contract and authorized release of funds. The preliminary design kickoff meeting was held on April 12, 2018, and the design consultant was given Notice to Proceed on April 13, 2018.	Design \$1,191,000 Construction \$5,279,000	Design \$500,863 Construction TBD	\$500,863	\$1,105	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 Capacity funded	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 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, procurement will include inspection only and a separate procurement package will be developed following inspection. The project is scheduled to advertise by mid-May 2018.	Design \$0 Construction \$300,000	Design \$0 Construction \$TBD	\$0	\$0	Sep 2018
14	WAI75I – 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 \$654,252	\$654,252	\$514,042	Sep 2018

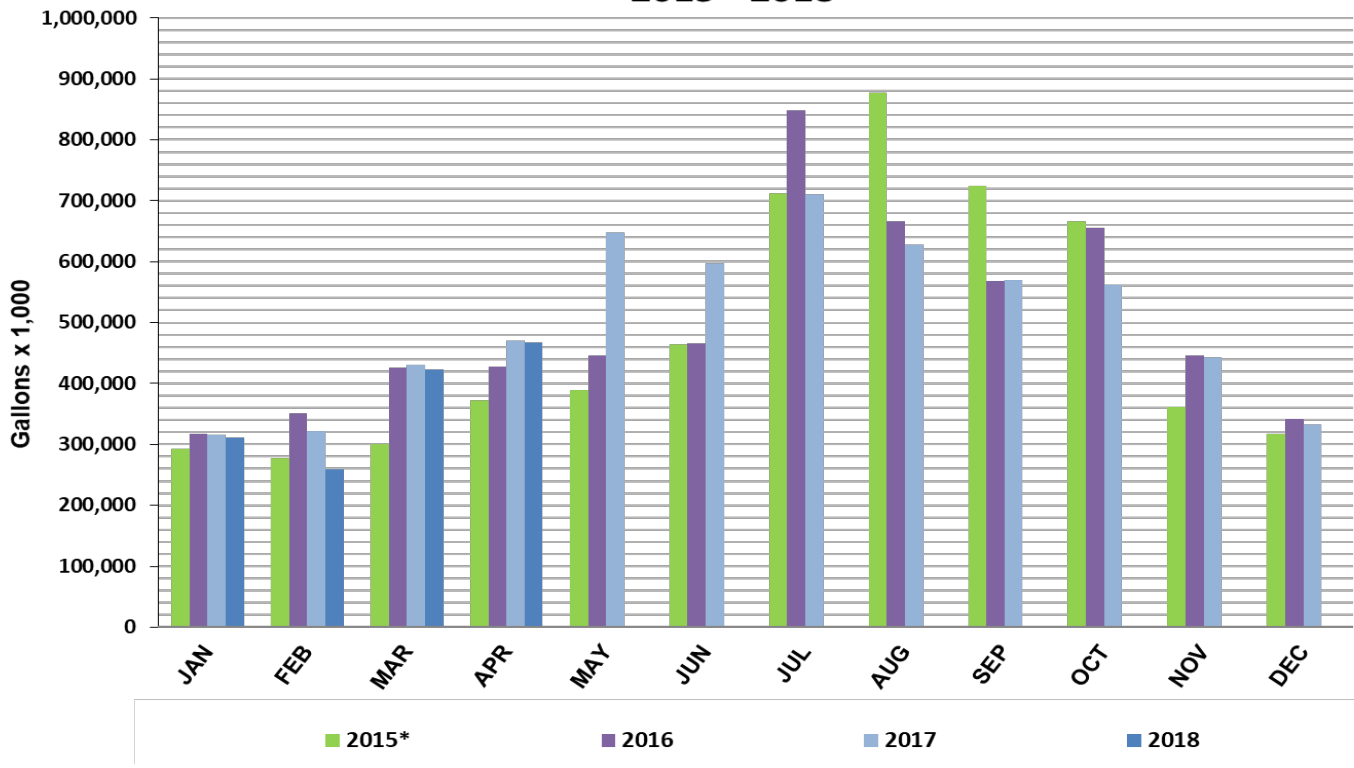
* Note: Total Contract Amount to Date also includes costs of public advertisement for construction bids/proposals.

Project is complete and no further invoices are anticipated.

Woodlands Production, Delivery and Rainfall April 2018



Woodlands Production and Delivery 2015 - 2018



*Introduction of surface water September 2015