



SAN JACINTO RIVER AUTHORITY

Woodlands Division MUD Report for January 2019

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.	3.532-6.348	6.0 avg.	4.120-6.615	0.9 avg.	0.527 - 0.809
2-Hour Peak Flow (MGD)	18	16.470	15.56	9.460	3.6	1.360
CBOD5 (30 Day avg.; mg/l)	10	2.4	10	2.2	10	4.5
TSS (30 Day avg.; mg/l)	15	2.1	15	2.0	15	8.2
NH3-N (30 Day avg.; mg/l)	3	0.1	2.6	0.6	3	0.4
pH (min-max)	6.0 - 9.0	6.51-7.31	6.0 - 9.0	6.53-7.98	6.0 - 9.0	6.97 - 7.81
DO (minimum; mg/l)	4.0 (min)	7.23	4.0 (min)	6.62	6.0 (min)	7.92
Disinfection (max Cl2; mg/l)	0.1 mg/l	0.06	NA	NA	1 mg/l (min) 4 mg/l (max)	1.18 3.39
E.coli (max col/100 ml)	200	2.0	200	8.0	399	2.0

* No Excursions

WATER

Parameter	December 2018		January 2019	
	Groundwater	Surface Water	Groundwater	Surface Water
Average (gal/day)	4,981,000	4,435,000	5,567,000	3,586,000
Minimum (gal/day)	1,718,000	3,521,000	3,031,000	2,445,000
Peak-day (gal/day)	7,780,000	5,153,000	8,397,000	4,856,000
Monthly (gallons)	154,418,000	137,477,000	172,590,000	111,152,000
Percentage GW/SW	52%	48%	60%	40%
Average Avail. Capacity	65,524,000	NA	67,951,000	NA
Rainfall (inches)	11.11		6.33	
Total Usage	291,898,000		283,742,000	
Fiscal year-to-date blend	54% GW / 46% SW			

(Total water usage decreased 8.85% compared to January 2018)

Cumulative Total Water Usage: 283,742,000 gallons - January 2019

ENVIRONMENTAL

Parameter	January 2019
Current Total Permits	465
Interceptor Inspections	139
Enforcement Action Taken	12

PROJECT UPDATE
(As of January 31, 2019)

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 December 5, 2018. The contractor has been working to prepare site for building foundation, install valves pipe and piping, and install underground piping and duct banks.	Design \$630,000 Construction \$5,519,000	Design \$585,874 Construction \$5,179,793	\$5,765,667	\$683,347	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			
2	WW1701 – Wastewater Treatment Facility No. 2 Disinfection System Improvements	The Contractor is 95% complete with the installation of all interior components. Startup and testing is tentatively schedule for the middle of February.	Design \$448,000 Construction \$6,500,000	Design \$439,245 Construction \$6,327,404	\$6,766,650	\$5,864,000	Feb 2019

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% 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. Completion of easement acquisition is anticipated to be complete by early summer 2019.	Design \$688,000 Construction \$4,510,000	Design \$527,496 Construction TBD	\$527,496	\$238,233	May 2021
4	WW1603 – Lift Station No. 5 Rehabilitation	Final Completion issued December 31, 2018. Currently archiving items for closeout.	Design \$232,000 Construction \$1,100,000	Design \$50,130 Construction \$1,059,953	\$1,110,083	\$1,094,589	Aug 2018
5	WWBBGM – Rehabilitation of Bear Branch Gravity Main <u>Bond funded</u>	The design consultant provided the 90% design submittal on January 22, 2019. Contractor access routes and construction staging sites have been identified and developed, and are being discussed with landowners. Also, have been coordinating with Cochran’s Crossing Village Association.	Design \$1,882,000 Construction \$16,299,000	Design \$994,459 Construction TBD	\$994,459	\$370,308	Apr 2020
6	WWF3LS – WWTF No. 3 Lift Station Rehabilitation	Electrical change-over is complete and Lift Station was placed into service December 19, 2018. Partial Substantial Completion was also issued the same day and punch list items were generated. Contractor is working on punch list items.	Design \$237,000 Construction \$1,577,000	Design \$126,366 Construction \$543,193	\$669,559	\$622,483	Jan 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
7	WWLS4R – Lift Station No. 4 Replacement (Crystal Lake Lane)	Contractor has completed the deep excavation and the wet well casing is at final elevation. Interior foundation of the wet well is complete. Contractor continues installation of on at- grade foundations, mechanical, and plumbing installations.	Design \$266,000 Construction \$1,459,000	Design \$235,155 Construction \$1,290,827	\$1,525,982	\$946,762	Apr 2019
8	WWLS23 – Lift Station No. 23 Rehabilitation (Baker Hughes)	Diversion pumping is ongoing while contractor completes final electrical installations and SCADA equipment installations. Testing to potentially occur 2 nd week of February.	Design \$68,000 Construction \$372,000	Design \$103,012 Construction \$500,840	\$603,852	\$485,169	Feb 2019
9	WA17WL – Water Distribution – Looping Water Mains	Contractor has completed the installation of the water line along Ken Lakes Drive, Research Forest Drive, and Chipwyck Way/FM2978. Contractor will be addressing all punch list items and submitting documents for closeout. The replacement of the 12-inch water line crossing Panther Branch at Grogan’s Point has been added to this project. Two proposals were received on January 15, 2019. The construction contract is anticipated to go to the SJRA February 2019 Board Meeting for approval.	Design \$198,000 Construction \$972,000	Design \$36,708 Construction \$387,599	\$424,307	\$320,950	May 2019

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
10	WW17GR – Gravity Main Rehabilitation – Segments 35, 50, and 50A	Notice to Proceed was issued to contractor on December 17, 2018. Contractor has started mobilizing materials and equipment. Contractor to start video inspection of Segment 35 (Sawdust and Grogan’s Point) starting at The Woodlands Golf Course for the first phase of work after installation of bypass pumping.	Design \$60,000 Construction \$1,328,000	Design \$61,396 Construction \$1,277,079	\$1,338,475	\$62,672	Jul 2019
11	WWF1AB – WWTF No. 1 Replacement of Aeration Basin Nos. 1 and 2 <u>Bond funded</u>	Preliminary design is ongoing. Options for design were evaluated and discussed, and the design consultant is scheduled to submit a draft Preliminary Engineering Report in early March 2019.	Design \$1,191,000 Construction \$5,279,000	Design \$500,863 Construction TBD	\$500,863	\$379,347	Mar 2022
	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 additional treatment capacity for the project.	Design \$117,000 Construction \$1,920,000	Design TBD Construction TBD	\$0	\$0	
12	WARB34- Water Well No. 34 Inspection	SJRA and their consultant meet with the Contractor at their facility on January 25, 2019 to inspect the well components. The consultant is preparing their final report on recommendations on re-installation of the well components.	Design \$0 Construction \$300,000	Design \$24,240 Construction \$29,115	\$53,355	\$34,344	Feb 2019

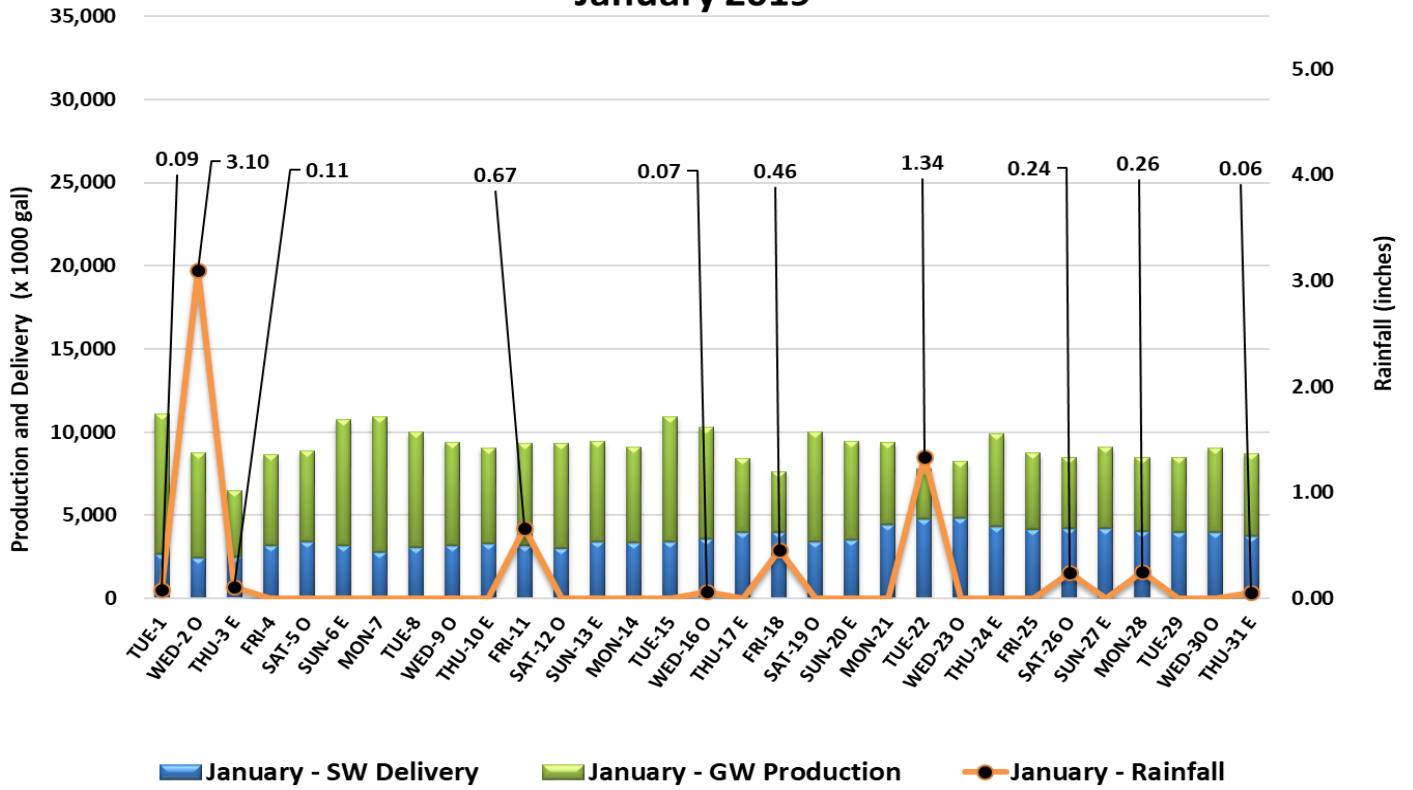
Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
13	WA17SI – Water System Security Improvements	This project will enhance security for the Woodlands Division water facilities. Work at the water facilities is on-going and should be completed by early 2019.	Design \$0 Construction \$673,000	Design \$0 Construction \$673,401	\$673,401	\$535,051	Mar 2019
14	WWSES – Sanitary Sewer Transmission Assessment and Renewal (SSTAR) Program – Phase I Project	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. The consultant completed field investigation to verify locations for flow monitoring equipment in January. The consultant will conduct installation of rain gauges and flow monitoring equipment starting the week of February 4, 2019.	Planning \$1,510,000	Planning \$1,758,675	\$1,758,675	\$49,549	Aug 2020
15	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. The Consultant provided the 60% submittal package for SJRA review and comments in mid-December 2018. The 90% submittal package is due on February 8, 2019.	Design \$64,000 Construction \$322,000	Design \$52,151 Construction TBD	\$52,151	\$29,095	Mar 2020

Item	Project Description	Project Highlights	Budget	Contract Amount	Total Contract Amount to Date *	Invoiced to Date	Estimated Completion Date
16	WA4GT2 - Water Plant No. 4 Ground Storage Tank No. 2 <u>Capacity Funded</u>	This project is for the construction of a second ground storage tank at Water Plant No. 4. Comments were provided by SJRA on the 30% design submittal in December. The 60% design submittal is due on February 19, 2019.	Design \$620,000 Construction \$3,413,000	Design \$244,436 Construction TBD	\$244,436	\$0	Dec 2020
17	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 on December 5, 2018. A kickoff meeting was held on December 8, 2018. Consultant provided a draft Preliminary Engineering Report (PER) on December 31, 2018. The final PER is to be submitted in February 2019.	Design \$266,000 Construction \$1,460,000	Design \$74,633 Construction TBD	\$74,633	\$4,166	Sep 2020
18	WA19WR – Rehabilitation of Water Well Nos. 25 and 31	This project was designed in-house by SJRA to rehabilitate two water wells. This project will not increase the capacity of the wells, but repair and replace worn or damaged components. Also, the well pump assemblies will be lowered by 100 feet at both locations. Two proposals were received on January 22, 2019. The construction contract is anticipated to go to the SJRA February 2019 Board Meeting for approval.	Design \$20,000 Construction \$440,000	Design \$75,987 Construction TBD	\$75,987	\$0	Oct 2019

* 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 January 2019



Woodlands Production and Delivery 2016 - 2019

