NOTICE OF MEETING FORT BEND COUNTY FRESH WATER SUPPLY DISTRICT NO. 1 OF FORT BEND COUNTY, TEXAS

Notice is hereby given that the Board of Supervisors of Fort Bend County Fresh Water Supply District No. 1 will meet in regular session, open to the public, at 6:00 p.m. on Thursday, October 17, 2024, at the Mustang Community Center, 4521 F.M. 521 North, Fresno, Fort Bend County, Texas, 77545, a designated meeting place of the Board inside the boundaries of the District.

Electronic copies of the meeting materials are available at **www.fortbendwater1.com** at such time as the meeting occurs. At the meeting the following items will be considered:

1. Hear from public solely regarding matters on the agenda (limited to 3 minutes per person).

2. Receive update concerning sanitary sewer easements along Trammel Fresno Road.

3. Review Bookkeeper's Report and consider taking action thereon, including:

A. Approval of bills submitted to the District for payment.

B. Review Investment Report and authorize necessary action in connection therewith.

C. Review Collateral Pledge Report and Investment Policy and authorize necessary action in connection therewith including any amendments or changes thereto.

D. Discuss depository institutions and take any necessary related actions.

4. Review Tax Assessor/Collector's Report and consider taking action thereon, including:

A. Approve write-offs as recommended by the Fort Bend County Tax Assessor/Collector.

5. Review Engineer's Report and consider taking action thereon, including:

A. Report on status of projects including: (i) Gateway Acres Subdivision wastewater plumbing contract, (ii) Fresno Ranchos Wastewater Collection System, (iii) Expansion of Teleview Terrace Subdivision Lift Station, and (iv) Teal Gardens Development, and take action related thereto, including authorize advertisement of bids, award of contracts, approval of pay estimates and change orders.

B. Authorize Engineer to prepare plans and specifications for water and wastewater system projects and authorize solicitation/advertisement of bids for construction of water system and wastewater system projects as necessary.

C. Report on status of project funding, and take necessary action related thereto.

D. Report on projections for District Water and Wastewater Projects.

E. Discuss Emergency Preparedness Plan and take any necessary action related thereto.

F. Update concerning status of non-residential connections.

G. Discuss and take action on proposed emergency water interconnect with BC MUD 21.

H. Update of status of City of Arcola water plant.

I. Update on status of WWTP expansion.

J. Update concerning road widening projects within the District.

6. Review Operator's Report and consider taking action thereon, including:

A. Approval of repairs to water and wastewater systems.

B. Approval of requests for water taps.

C. Approval of water termination list.

D. Discuss requests under Private Easement Policy.

7. Attorney's Report and consider taking action thereon, including.

A. Approve minutes of meeting held on September 19, 2024.

B. Discuss and take action on Regional Facilities Contract, including WWTP expansions, capacity requirements and related matters.

C. Consider the use of eminent domain to condemn property at 2822 Naill road for a wastewater treatment plant and declaring public necessity for the construction of facilities for the treatment of wastewater.

D. Consider approving Resolution Authorizing Engagement of Appraiser to Appraise Certain Land, Authorizing Attorney to Negotiate for the Purchase of Certain Land and to Make a Final Offer, and Authorizing Condemnation Proceedings.

E. Discuss and consider Right-of-Entry Agreement for geotechnical surveying and related matters, and take appropriate action.

8. Regional Plant Committee Report and consider taking action thereon.

9. Approve proposal to renew insurance.

10. Hear from public.

Pursuant to V.T.C.A. Government Code §551, the Board of Supervisors may convene in closed session in relation to any agenda item included in this Notice with such closed session to be held at the date, hour, and place given in this Notice any and all subjects for any and all purposes permitted by V.T.C.A Government Code Chapter 551, including but not limited to, private consultation with the District's Attorney's on any or all matters or subjects authorized by law, pending or contemplated litigation, personnel matters, real estate transactions, security devices, economic development negotiations and/or gifts and donations.

FORT BEND COUNTY FRESH WATER **SUPPLY DISTRICT NO. 1**

aria Salihas Parker anford Kuhl Magan Kurio Parker Kahn LLP ttorneys for the District

FORT BEND COUNTY TAX OFFICE TOTAL TAXES DUE - RECAP 52 - FT BEND CTY WATER SUPPLY DIST #1

	BEGINNING	CURRENT	PREVIOUS YR			CURRENT	PREVIOUS YR		2023	
DATE	BALANCE	PAYMENTS	PAYMENTS			LEVY ADJ.	LEVY ADJ.		TAXES	TOTAL
09/03/2024	1,002,554.74		7,639.97				(7,649.40)			1,002,545.31
09/04/2024	1,002,545.31		(3,132.12)				(3,283.49)			996,129.70
09/05/2024	996,129.70		(1,501.15)							994,628.55
09/06/2024	994,628.55		(1,992.44)							992,636.11
09/09/2024	992,636.11		(254.88)							992,381.23
09/10/2024	992,381.23		(615.17)							991,766.06
09/11/2024	991,766.06		(6,187.57)							985,578.49
09/12/2024	985,578.49		(595.00)							984,983.49
09/13/2024	984,983.49		(1,836.12)							983,147.37
09/16/2024	983,147.37		(2,067.13)							981,080.24
09/17/2024	981,080.24		(325.20)							980,755.04
09/18/2024	980,755.04		(558.30)							980,196.74
09/19/2024	980,196.74		(7,294.94)							972,901.80
09/20/2024	972,901.80		(700.70)							972,201.10
09/23/2024	972,201.10		(1,531.37)							970,669.73
09/24/2024	970,669.73		(2,828.31)							967,841.42
09/25/2024	967,841.42		(986.70)							966,854.72
09/26/2024	966,854.72		(313.55)							966,541.17
09/30/2024	966,541.17		(6,814.49)							959,726.68
TOTAL		0.00	(31,895.17)	0.00	0.00	0.00	(10,932.89)	0.00	0.00	

10/01/2024 08:37:01 4647628 TC298-D SELECTION: DEPOSIT RECEIPT DATE: ALL

LOCATION: ALL

TAX COLLECTION SYSTEM DEPOSIT DISTRIBUTION FROM: 09/01/2024 THRU 09/30/2024 JURISDICTION: 0052 FORT BEND FRESH WATER SUPPLY

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INCLUDES AG ROLLBACK

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YEAR	FUND	TAX RATE	LEVY PAID	DISCOUNT GIVEN	PENALTY INTEREST	TIF AMOUNT	DISBURSE TOTAL	ATTORNEY	OTHER FEES	REFUND AMOUNT	PAYMENT AMOUNT
2023	M & O	.500000	13,476.42	.00	2,942.29	.00	16,418.71	6,583.57	.00	.00	23,002.28
	I & S	.500000	13,476.83	.00	2,943.18	.00	16,420.01	.00	.00	.00	16,420.01
	TOTAL	1.000000	26,953.25	.00	5,885.47	.00	32,838.72	6,583.57	.00	.00	39,422.29
2022	M & O	.500000	1,049.42-	.00	1,095.32	.00	45.90	1,823.10	.00	.00	1,869.00
	I & S	.500000	1,049.20-	.00	1,095.55	.00	46.35	.00	.00	.00	46.35
	TOTAL	1.000000	2,098.62-	.00	2,190.87	.00	92.25	1,823.10	.00	.00	1,915.35
2021	M & O	.410000	839.47	.00	353.65	.00	1,193.12	582.04	.00	.00	1,775.16
	I & S	.590000	1,208.03	.00	508.94	.00	1,716.97	.00	.00	.00	1,716.97
	TOTAL	1.000000	2,047.50	.00	862.59	.00	2,910.09	582.04	.00	.00	3,492.13
2020	M & O	.410000	741.37	.00	398.52	.00	1,139.89	556.03	.00	.00	1,695.92
	I & S	.590000	1,066.84	.00	573.45	.00	1,640.29	.00	.00	.00	1,640.29
	TOTAL	1.000000	1,808.21	.00	971.97	.00	2,780.18	556.03	.00	.00	3,336.21
2019	M & O	.430000	545.29	.00	354.43	.00	899.72	418.48	.00	.00	1,318.20
	I & S	.570000	722.81	.00	469.84	.00	1,192.65	.00	.00	.00	1,192.65
	TOTAL	1.000000	1,268.10	.00	824.27	.00	2,092.37	418.48	.00	.00	2,510.85
2018	M & O	.500000	769.46	.00	593.02	.00	1,362.48	408.76	.00	.00	1,771.24
	I & S	.500000	769.49	.00	593.07	.00	1,362.56	.00	.00	.00	1,362.56
	TOTAL	1.000000	1,538.95	.00	1,186.09	.00	2,725.04	408.76	.00	.00	3,133.80
2017	M & O	.500000	164.75	.00	146.62	.00	311.37	93.42	.00	.00	404.79
	I & S	.500000	164.75	.00	146.63	.00	311.38	.00	.00	.00	311.38
	TOTAL	1.000000	329.50	.00	293.25	.00	622.75	93.42	.00	.00	716.17
2016	M & O	.500000	4.65	.00	4.78	.00	9.43	2.83	.00	.00	12.26
	I & S	.500000	4.65	.00	4.78	.00	9.43	.00	.00	.00	9.43
	TOTAL	1.000000	9.30	.00	9.56	.00	18.86	2.83	.00	.00	21.69
2015	M & O	.500000	1.90	.00	2.14	.00	4.04	1.21	.00	.00	5.25
	I & S	.500000	1.90	.00	2.15	.00	4.05	.00	.00	.00	4.05
	TOTAL	1.000000	3.80	.00	4.29	.00	8.09	1.21	.00	.00	9.30
2014	M & O	.500000	1.90	.00	2.37	.00	4.27	1.28	.00	.00	5.55
	I & S	.500000	1.90	.00	2.38	.00	4.28	.00	.00	.00	4.28
	TOTAL	1.000000	3.80	.00	4.75	.00	8.55	1.28	.00	.00	9.83
2013	M & O	.250000	.95	.00	1.30	.00	2.25	1.35	.00	.00	3.60
	I & S	.750000	2.85	.00	3.91	.00	6.76	.00	.00	.00	6.76
	TOTAL	1.000000	3.80	.00	5.21	.00	9.01	1.35	.00	.00	10.36
2012	M & O	.250000	.95	.00	1.41	.00	2.36	1.42	.00	.00	3.78
	I & S	.750000	2.85	.00	4.25	.00	7.10	.00	.00	.00	7.10
	TOTAL	1.000000	3.80	.00	5.66	.00	9.46	1.42	.00	.00	10.88

LOCATION: ALL

DEPOSIT DISTRIBUTION FROM: 09/01/2024 THRU 09/30/2024 JURISDICTION: 0052 FORT BEND FRESH WATER SUPPLY

TAX COLLECTION SYSTEM

PAGE: INCLUDES AG ROLLBACK

YEAR FUND	TAX RATE	LEVY PAID	DISCOUNT GIVEN	PENALTY INTEREST	TIF AMOUNT	DISBURSE TOTAL	ATTORNEY	OTHER FEES	REFUND AMOUNT	PAYMENT AMOUNT
2011 M C 0	250000	05	0.0	1 50	0.0	2.47	1 40	0.0	0.0	2.00
	.250000	.95	.00	1.52	.00	2.47	1.49	.00	.00	3.96
	1 000000	2.05	.00	4.60	.00	7.45	.00	.00	.00	7.45
IOIAL	1.000000	3.80	.00	6.12	.00	9.92	1.49	.00	.00	11.41
2010 M & O	.250000	.95	.00	1.64	.00	2.59	1.56	.00	.00	4.15
I & S	.750000	2.85	.00	4.93	.00	7.78	.00	.00	.00	7.78
TOTAL	1.000000	3.80	.00	6.57	.00	10.37	1.56	.00	.00	11.93
2009 M & O	.250000	.95	.00	1.75	.00	2.70	1.62	.00	.00	4.32
I & S	.750000	2.85	.00	5.28	.00	8.13	.00	.00	.00	8.13
TOTAL	1.000000	3.80	.00	7.03	.00	10.83	1.62	.00	.00	12.45
2008 M & O	.250000	.95	.00	1.87	.00	2.82	1.69	.00	.00	4.51
I & S	.750000	2.85	.00	5.62	.00	8.47	.00	.00	.00	8.47
TOTAL	1.000000	3.80	.00	7.49	.00	11.29	1.69	.00	.00	12.98
2007 M & O	.250000	.95	.00	1.98	.00	2.93	1.76	.00	.00	4.69
I & S	.750000	2.85	.00	5.96	.00	8.81	.00	.00	.00	8.81
TOTAL	1.000000	3.80	.00	7.94	.00	11.74	1.76	.00	.00	13.50
2006 M & O	.250000	.47	.00	1.05	.00	1.52	. 92	.00	.00	2.44
I & S	.750000	1.43	.00	3.15	.00	4.58	.00	.00	.00	4.58
TOTAL	1.000000	1.90	.00	4.20	.00	6.10	.92	.00	.00	7.02
2005 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
2004 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
2003 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
2002 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
2001 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
2000 M & O	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48
I & S	.000000	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.250000	.48	.00	.00	.00	.48	.00	.00	.00	.48

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10/01/2024 08:37:01 4647628 TC298-D SELECTION: DEPOSIT RECEIPT DATE: ALL LOCATION: ALL

TAX COLLECTION SYSTEM DEPOSIT DISTRIBUTION FROM: 09/01/2024 THRU 09/30/2024 JURISDICTION: 0052 FORT BEND FRESH WATER SUPPLY

PAGE:

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INCLUDES AG ROLLBACK

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YEAR	FUND	TAX RATE	LEVY PAID	DISCOUNT GIVEN	PENALTY INTEREST	TIF AMOUNT	DISBURSE TOTAL	ATTORNEY	OTHER FEES	REFUND AMOUNT	PAYMENT AMOUNT
ALL ALL	M & O T & S		15,505.79	.00	5,905.66	.00	21,411.45	10,482.53	.00	.00	31,893.98
ALL	TOTAL		31,895.17	.00	12,283.33	.00	44,178.50	10,482.53	.00	.00	54,661.03
DLQ	M&O		15,505.79	.00	5,905.66	.00	21,411.45	10,482.53	.00	.00	31,893.98
DLQ	TOTAL		31,895.17	.00	12,283.33	.00	44,178.50	.00 10,482.53	.00	.00	54,661.03
CURR	M & O		.00	.00	.00	.00	.00	.00	.00	.00	.00
CURR CURR	I & S TOTAL		.00	.00	.00	.00	.00	.00	.00	.00	.00

rendition_comm_detail.rep v1.29

FORT BEND COUNTY

Rendition Commission Distribution Detail from 09/01/2024 to 09/30/2024

Date: 10/01/2024 14:06:31

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Tax Unit Page: 1 of 1

Tax Unit: 52 FORT BEND FRESH WATER SUPPLY DIST #1

Account No.	Year	Deposit	Levy Collected	Rendition Penalty	P & I Collected	Rendition P & I	Appraisal Commission	Disbursement Amount
9960192220018907	2023	CC440905	35.86	3.26	6.81	0.00	0.16	42.51
Total for 2023			35.86	3.26	6.81	0.00	0.16	42.51
Account No.	Year	Deposit	Levy Collected	Rendition Penalty	P & I Collected	Rendition P & I	Appraisal Commission	Disbursement Amount
9960102110018907	2016	EK240925	5.50	0.50	5.72	0.00	0.03	11.19
Total for 2016			5.50	0.50	5.72	0.00	0.03	11.19
Total for Tax Unit 52 FORT BEND FRESH WATER SUPPLY DIST			41.36	3.76	12.53	0.00	0.19	53.70

10/01, TC168	/2024 09:03:5	4647629	TAX COL TAX COLI FROM 09/01	LLECTION SYSTEM LECTOR MONTHLY REPORT L/2024 TO 09/30/2024	IN	CLUDES AG ROLLBACK	PAGE :	38
FISC	AL START: 10/01/	2023 END: 09/30/2024	JURISDICTION: 0052	2 FORT BEND FRESH WAT	ER SUPPLY D			
	CERT	TAXABLE VALUE	ADJUSTMENTS	ADJ TAX VALUE	TAX RATE	TAX LEVY	PAID	ACCTS
CURREN	NT YEAR	575,040,258	37,559,351	612,599,609 0	01.000000	6,128,720.57	5,49	8
- YEAR	TAXES D	UE MONTH ADJ	ADJUSTMENT YTD	LEVY PAID	PAID YTD	BALANCE	COLL &	YTD UNCOLL
2023	5,750,402.	58 3,283.49	- 378,317.99	26,953.25	5,710,081.07	418,639.50	93.17	0.00
2022	363,138.	41 7,649.40	- 13,124.80-	2,098.62-	153,163.54	196,850.07	43.76	0.00
2021	122,565.	18 .00	162.76-	2,047.50	39,912.81	82,489.61	32.61	0.00
2020	81,802.	96 .00	118.00	1,808.21	18,249.01	63,671.95	22.28	0.00
2019	51,126.	26 .00	52.10	1,268.10	11,763.20	39,415.16	22.98	0.00
2018	41,923.	.00	0.00	1,538.95	8,622.04	33,301.03	20.57	0.00
2017	17,522.	82 .00	0.00	329.50	1,340.82	16,182.00	7.65	0.00
2016	14,032.	85 .00	0.00	9.30	420.08	13,612.77	2.99	0.00
2015	11,991.	92 .00	0.00	3.80	557.20	11,434.72	4.65	0.00
2014	10,735.	.00	0.00	3.80	492.00	10,243.80	4.58	0.00
2013	13,610.	22 .00	369.80-	3.80	480.00	12,760.42	3.63	0.00
2012	12,339.	.00	0.00	3.80	451.90	11,887.30	3.66	0.00
2011	8 073	67 .00	0.00	3.80	438.20	10,854.46	3.88	0.00
2010	8,600	70 .00	0.00	3.80	117 69	7,003.03	2.35	0.00
2008	8 128	69 .00	0.00	3.80	117.00	7 242 42	10.00	0.00
2007	6 625	06 .00	0.00	2 90	000.20	7,242.43	10.90	0.00
2006	5,701	58 00	0.00	1 90	322 60	5 378 09	5 66	0.00
2005	1,217.	68 .00	0.00	0 48	83 49	1 134 19	5.00	0.00
2004	610.	10 .00	0.00	0.48	75 53	534 57	12 38	0.00
2003	595.	97 .00	238.67-	0.48	2 68	354 62	75	0.00
2002	762.	61 .00	0.00	1.44	6.84	755.77	.90	0.00
****	6,542,799.	99 10,932.89	- 364,592.06	31,895.17	5,947,665.37	959,726.68		0.00
CURR	5,750,402.	58 3,283.49	- 378,317.99	26,953,25	5.710.081 07	418.639 50		0.00
DELQ	792,397.	41 7,649.40	- 13,725.93-	4,941.92	237,584.30	541,087.18		0.00

FORT BEND COUNTY PERCENTAGE OF LEVY COLLECTED

Tax Units : ALL From 10/01/2013 To 09/30/2024

52 -FORT BEND FRESH WATER SUPPLY DIST #1

Tax Year	Taxes Due	Adjustments	Levy Paid	Balance	% Collected
2013	2,166,237.16	562,724.83	2,716,201.57	12,760.42	99.53%
2014	2,675,145.70	53,718.69	2,718,620.59	10,243.80	99.62%
2015	2,285,060.55	521,208.09	2,794,833.92	11,434.72	99.59%
2016	2,217,167.94	574,616.30	2,778,171.47	13,612.77	99.51%
2017	3,227,766.67	12,813.11	3,224,397.78	16,182.00	99.50%
2018	3,499,287.44	30,736.71	3,496,723.12	33,301.03	99.06%
2019	3,589,725.83	28,416.75	3,578,727.42	39,415.16	98.91%
2020	4,129,315.70	129,637.95	4,195,281.70	63,671.95	98.50%
2021	4,312,089.78	33,868.29	4,263,468.46	82,489.61	98.10%
2022	5,285,319.87	167,036.94	5,255,506.74	196,850.07	96.39%
2023	5,750,402.58	378,317.99	5,710,081.07	418,639.50	93.17%
2024		0.00	0.00		



October 16, 2024

Board of Directors Fort Bend County Freshwater Supply District #1 c/o Sanford Kuhl Hagan Kugle Parker Kahn LLP 1330 Post Oak Boulevard, Suite 2650 Houston, TX 77056

Re: Fort Bend County Freshwater Supply District #1 – October 2024 Board of Directors Meeting

Dear Board Members:

Following is the status report on Fort Bend County FWSD#1 No. 1 projects:

Agenda Item No. 5 – Engineer's Report:

(a) Report on status of projects:

- i)Gateway Acres Subdivision Wastewater Plumbing Contract (199 properties within original contract)
 - Connection Update:
 - Approximately 100 properties connected to District's WW System...of those, 38 properties are fully complete (including issuance of green door hanger to resident) and the remaining still require some additional work for the property to be considered fully complete)
 - 16 properties were removed from project due to a) properties not securing or properly maintaining water service, b) were not a single-family residential property, c) paid for and installed a wastewater connection prior to the plumbing project, and d) connected to the District's wastewater collection system illegally
 - Request Board's approval of Invoice No. 3 from Terracon for material testing services for \$6,147.50
 - Anticipate project being completed by the end of this year
 - Approximately 12 properties have issues that Inframark and DA need to resolve...Inframark and DA to provide update
 - Discuss with Board properties with house and garage with living above situation
- ii) City of Arcola WWTP Expansion Project (0.675 MGD to 0.95 MGD)...District will have 0.35 MGD of WWTP Capacity
 - Per correspondence from CoA, project supposedly is complete...waiting for final invoice from CoA to process and make payment and correspondence to TCEQ that project has been completed
- iii) Fresno Ranchos Subdivision Wastewater Collection System
 - Project currently under design
- iv) Expansion of Teleview Terrace Subdivision Lift Station
 - Engineering Study Report (included) submitted to TCEQ last month and waiting for their review and approval so project can be advertised for construction...continuing to finalize construction drawings and contract manual for project
- v) Teal Gardens Development
 - DA working on condemnation efforts to secure remaining utility easements for project...Developer needs approval of project from TCEQ, FBC, and City of Houston...once easements have been secured and applicable governmental agencies have approved plans, District will complete their review and approval of the on-site and off-site utility plans
- vi) City of Arcola WWTP Expansion Project (0.95 MGD to 1.4 MGD)
 - Project is currently under design...once construction is completed, the District will have 0.8 MGD of WWTP capacity
 - Received last week "near" 100% complete drawings for District review
 - Per updated schedule from CoA provided last week, it is anticipated that the construction contract will be award at the end of May 2025, construction to start mid-2025, and construction completed by the end of 2026

vii) Water Plant No. 2 Generator

- District had requested to investigate the possibility of constructing a natural gas generator
- Per communications with CenterPoint, there is an existing 8" gas line along Renfrow-Burford Road (south side of street)
- Currently working to provide CenterPoint needed information (generator size in KW, total gas load in CFS, and required delivery pressure) so they can perform a pressure study to determine if they can provide services as is to our facility

viii) Portable Diesel Generator for LS's and Double Walled Diesel Storage Tank

- Inframark to provide update on a) portable generator with metal shed and concrete foundation with bollard and b) double walled diesel storage tank

(b) Authorize Engineer to Prepare Plans and Specifications for Water/Wastewater Projects

- no action items

(c) Report on status of project funding and take necessary action related thereto.

- Project One-Year Warranty Expiration Dates

- Gateway Acres Subdivision WW Collection System = 01/31/25
- Fresno Ranchos Subdivision Lift Station and Forcemain = 01/30/25
- <u>2022 TCEQ Loan (\$10.45M)</u> funds from the loan are needed to fund the completion of the CoA WWTP Expansion Project (0.675 MGD to 0.95 MGD)
- FBC CDBG Funds...will pursue funding source for future plumbing projects

(d) Projections for District Water and Wastewater Projects

- request Board approval to update information every January and July

(e) Discuss Emergency Preparedness Plan and take any necessary action related thereto

- review EPP in April each year to determine if any updates are required

(f) Status of Non-Residential Applications for Water Service -

Connected:	
4320 Doreen Avenue (Multi-Family Dwelling)	La Fresno Food Mart
293 Teakwood Avenue (Multi-Family Dwelling)	Lou's Back Porch
297 Teakwood Avenue (Multi-Family Dwelling)	LT No Limits
Church of God of Prophecy	Mustang Community Center
Dollar General	MVP Auto Parts (Domestic & FW)
Enriguez Tire Shop (East Palm)	Nalco Water (FW)
FBC Water Connection at Water Plant	New Quality Life Ministries (Church)
First Baptist Church of Fresno (Domestic &	New Quality Life Ministries (Restaurant)
FW)	
Fresno Fiesta	Papa Nick's BBQ Kitchen – Mobile Food
	Truck
Fresno Gym (3941 FM 521)	PMC International Tire Shop
Fresno Market – FM521 (Domestic & Irrigation)	Quality Paint and Body (Pecan Street)
Fresno Motor	Quality Personal Care
Fresno Mount Corinth Baptist Church	Richard Martini-Rental Livestock Pasture
Fresno Volunteer Fire Department	Robbins Nest for Children (Domestic & FW)
F&R Tax	Sosa Electric (Avenue C)
General Office Space (514 Pecan Street)	St. James Knanaya Church – Fire Tap
Gulf Coast LP Gas Company	St. James Banquet Hall – (Domestic & FW)
HEFCO Enterprises	St. Peters & St. Pauls Orthodox Church of
	Houston
Iglesia Bautista Del Calvario Church	Swingby#3 Gas Station (Domestic &
	Irrigation)
Iglesia Princepe De Paz Church	Teleview Terrace Subdivision Lift Station
Interconnect with City of Arcola	Tiny Toes Academy
Interconnect with FBCMUD23	Tire Shop at 1739A Trammel Fresno
	Valero Gas Station
	Welcome Market

Connections Pending:

Parks Fresno Food Market (FM521)

- District Operator to update regarding service to customer

Processing Application:

St Peter and Paul Church (Illinois St)

- Coordinating with DA with list of remaining items so DA can send letter to customer informing them that all must be successfully provided by or before end of this year or application will be considered expired (have discussed matter with customer on phone)...customer currently receiving District water, but would like to add an additional building on property

Lemark Investments (East Sycamore St)

- request Board's approval of application, contingent upon water meter easement conveyance document being secured and recorded

Duplex (1615 Avenue C)

- request Board's approval of completed application

R&SL Construction (Edie St)

- received application and application fee for water service (only) for their masonry work facility...request Board's approval to start processing application

Status of Non-Residential Applications for Wastewater Service -

Connected:	
4320 Doreen Avenue (Multi-Family Dwelling)	General Office Space (514 Pecan Street)
293 Teakwood Avenue (Multi-Family Dwelling)	La Fresno Food Market (TFR)
297 Teakwood Avenue (Multi-Family Dwelling)	Mustang Comm Center (minus field bathrooms)
Church of God of Prophecy	New Quality Life Ministries (Church)
First Baptist Church of Fresno	New Quality Life Ministries (Restaurant)
Fresno Volunteer Fire Department	Sosa Electric (Avenue C)
	Quality Paint and Body (Pecan Street)

Connections Pending:

Parks Fresno Food Market (FM521)

- District Operator to update regarding service to customer

Processing Application:

Fresno Fiesta (TFR) [previously known as Crossroad Market Store]

- Customer provided plumbing information for review...customer already has District water service Welcome Market (TFR)

- Request Board's approval of complete application...tap letter to include additional costs, in accordance with the District's Rate Order, associated with illegal connection...customer currently has District water service

Duplex (1615 Avenue C)

- request Board's approval of completed application

(g) Potential Emergency Water Interconnect with BCMUD21/22

- BCMUD21/22 agreed to District only having to pay ½ of the construction cost of the interconnect vault, with a NTE value of \$75k...DA is handling completion of agreement between parties
- Submitted to Patrick Newton, Engineer (LJA) for BCMUD21/22, the District's thoughts regarding the potential emergency water interconnect between our Districts (location at end of East Sycamore Road)
 - a. Vault to be located at the District's eastern boundary line.
 - b. Work within the District to upsize the existing 8" waterline to a 12" waterline would consist of predominately trenchless construction (no open cutting driveways).
 - c. BCMUD21/22 to provide District Operator their water quality data and type of disinfection method used.
 - d. BCMUD21/22 to provide District information regarding capacities of their water production facilities.
 - e. BCMUD21/22 would be responsible for all costs associated with this emergency water interconnect project, except for ½ of construction cost of interconnect vault, with a NTE value of \$75k
 - f. BCMUD21/22 would be responsible for completing all efforts associated with this project (design, construction, permitting, agency approvals, etc...).

(h) Status of New CoA WP -

- a. CoA WP is in service and interconnect between the District and CoA is now functioning as an emergency water interconnect
- b. Status of District paying funds owed to CoA regarding take back of 625 connections worth of water service
- c. Status of rework of RFC into a standard emergency water interconnect agreement and a waste disposal agreement...per DA, efforts are currently underway regarding completion of these agreements and are anticipated to be completed by the end of this year

(i) Status of Current and Future WWTP Expansion Projects – South Wastewater Service Area

- See Item A above for status of current projects
- CoA working on securing WWTP Discharge Permit for ultimate capacity of WWTP (4.6 MGD)...permit will also include an interim phase of 1.4 MGD...anticipate permit being secured with TCEQ early 2025
- Ultimate CoA WWTP Expansion Project for District (maximum capacity for District of 1.905 MGD, which is capable of serving 5,442 ESFCs) = District Attorney to document this matter with CoA
- Potentially can increase the District's connection capacity at CoA WWTP by conducting a re-rate study to lower the RFC value of 350 GPD/connection to a lessor value
- Anticipated Timeline for Full Use of WW Connection Capacity (Current 1,000 ESFC Connection Capacity):
 - Current Connections (Actual and Reserved) as of June 2024:
 - Active Residential Connections Per Inframark = 552
 - Vacant Residential Connections Per Inframark = 26
 - o In-Process Residential Connections Per Inframark = 9
 - Residential Connections in GA WW Plumbing Contract = 199
 - Residential Connections in Teal Gardens Development = 107
 - Active Non-Residential Connections, in ESFCs = 19
 - In-Process Non-Residential Connections, in ESFCs = <u>11</u> Total = 923

North Wastewater Service Area

- DA to provide update regarding securing land for District's north WWTP
- (j) Roadway Widening Projects Within District (which will require utility and service line relocations): - South Post Oak Boulevard Widening Project (from W Sycamore to Trammel Fresno Rd):
 - Scope Increased ROW width, with 2 lane road and additional lanes throughout sections, with roadside ditches
 - \circ Schedule
 - County is currently in process of a) clearing ROW and acquiring easements and b) updating drainage design
 - Utility Relocations propose our relocation work to be included in their updated plan set
 - Road Construction FBC to update

Estimated Cost -

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

- FM521 Roadway Widening Project (North of SH6):

- OUtility Relocations at Mustang Bayou Work to be completed at same time that Roadway Contractor is under construction in area of project...work will consist of open cut versus trenchless construction as originally planned...removal of ARV manhole has been completed
 OUtility Relocations from Willow St to Trammel Fresno Road – Work completed...need to review
- final pay estimate with change orders with Inframark so costs can be presented to Board oUtility Relocations from Pecan St to SH6 – investigation still needs to be conducted
- Roadway Project Updates Final roadway plans provided to District on 05/22/23...project let in April 2023...roadway construction underway with Granite Construction as Contractor...per Roadway Team, work within District to start along south bound lanes at the American Canal and Mustang Bayou, with the installation of the storm sewer first, at outfall first and then working outward, then with the installation of concrete pavement
- **Scope –** 4 lane, divided roadway with raised median, curb and gutter, with underground storm sewer lines, side swales, and sidewalk

○Schedule –

- Anticipate coordinating necessary water and wastewater utility relocations by 2024/25
- Anticipate roadway widening project to be completed in 2026

Estimated Cost-

Currently determining extent and cost for utility relocations...later will coordinate with Inframark and Roadway Team so solution and costs can be determined and presented to Board...NORA provided to District

FM521 Roadway Widening Project (South of SH6):

• Scope – 4 lane, divided roadway with raised median, curb and gutter, and side path...proposed detention pond along west side of CoA WWTP and new WWTP entrance roadway...including a proposed overpass at the BNSF RR crossing

o Schedule –

- 30% Utility Coordination meeting was conducted in September 2021
- 60% Utility Coordination meeting was conducted in April 2022
- 90% Utility Coordination meeting was conducted in October 2023
- Anticipate 100% completed construction plans TBD
- Anticipate roadway widening project to start construction in 2026

Estimated Cost –

- NORA provided to District
- Coordinating with Roadway Team so our relocations can be included in their construction plans, which they would design and their contractor construct...assistance would be provided by Jacobs and the District Operator throughout this process...requested that an agreement be provided to the District for this arrangement...currently this relocation effort would need to be paid for by the District, but still investigating the possibility that FBC or TxDOT possibly assist us financially

- West Sycamore Road Widening Project (possibly sanitary sewer work):

 Scope – Proposed 100' ROW, with 4 lane, divided roadway with raised median, curb and gutter, with underground storm sewer lines, and sidewalk

o Schedule –

- Received 95% complete roadway plans for review on August 11, 2022...requested updated plans, as drainage design is still being updated, prior to completing review
- Anticipate 100% complete roadway plans TBD
- Coordinating with Roadway Team to have utility relocations (consider new sanitary sewer) included within their construction plans so relocations can be done by their contractor
- Anticipate roadway widening project to start construction TBD

• Estimated Cost –

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

- Evergreen Road Widening Project (California Rd to Mustang Bayou):

Scope – Proposed 80' ROW, with 2-12' lanes, 6' shoulders, asphalt roadway, with roadside ditches

o Schedule –

- Working on 30% complete roadway plans...no overall schedule provided yet
- Coordinating with Roadway Team to have utility relocations included within their construction plans so relocations can be done by their contractor

Estimated Cost –

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

- Evergreen Road Widening Project (Mustang Bayou to FM521):

Scope – Proposed 80' ROW, with 2-12' lanes, 6' shoulders, asphalt roadway, with roadside ditches

o Schedule –

- Provided 70% complete roadway plans for review and comment...no overall schedule provided yet
- Coordinating with Roadway Team to have utility relocations included within their construction plans so relocations can be done by their contractor

• Estimated Cost –

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

West Sycamore Road and South Post Oak Boulevard Intersection:

- Scope Widening of intersection to accommodate roadway widening projects along West Sycamore Road and South Post Oak Boulevard...Project also includes roadway widening project along West Sycamore Road to the west of this intersection
- Schedule TBD, but should occur prior to roadway widening projects to the east and north of this intersection
- Estimated Cost This project will involve the relocation of the District's waterline at this intersection...it has been communicated multiple times to the roadway team that it is the District's understanding that all costs associated with this relocation will be paid for by FBC...The District should be able to review and approve these relocations and the Roadway Contractor should be coordinating all work with the District Operator
- Other Road Widening Projects Within District (Lake Olympia Pkwy, California Road, Kentucky Road, Linden Street, Kansas St, 3rd Street...consider water and wastewater utility work) – FBC to provide update

Please let me know if you have any questions or comments. Sincerely, David C. Dybala, Jr., P.E. District Engineer 713-855-1917

Jacobs

Engineering Study Report

Version: Final

Fort Bend County Freshwater Supply District No. 1

Teleview Terrace Subdivision Wastewater Lift Station Optimization October 11, 2024



Jacobs

Engineering Study Report

Client name:	Fort Bend County Freshwater Supply District No. 1					
Project name:	Teleview Terrace Subdivision Waster	water Lift Station O	ptimization			
Version:	Final	Project no:	WHXH7530			
Date:	October 11, 2024	Prepared by:	Jayesh Charthal Jingjing Fan			
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1. Executive Summary

The Fort Bend County Freshwater Supply District No. 1 (District) operates a lift station in the Teleview Terrace Subdivision that conveys wastewater flows from the southern region of the District to the City of Arcola's wastewater treatment plant (WWTP). The site vicinity map is shown in Figure 1-1. The District has plans to expand the average daily flow of the City of Arcola's WWTP to provide additional WWTP capacity for the District from its current treatment capacity of 0.35 MGD to 1.905 MGD over time, with the next phase supplying 0.80 MGD of treatment capacity. To accommodate this expansion, upgrades to the Teleview Terrace Lift Station are required. This study focuses on optimizing the existing 8" force main's conveyance capacity through the upgrade of submersible pumps. Additionally, the study explores enhancing the Teleview Terrace Subdivision Wastewater Lift Station's conveyance capacity by adding a future second force main and associated pumps.

1.1 Existing System Optimization

The existing lift station, commissioned in 2015, comprises a wet well and force main with three submersible pumps handling 600-750 gpm. The study aims to optimize the facility's existing 8" force main conveyance capacity by upgrading the existing pumps. A flow test validated that the infrastructure, including existing pumps and force main, are functioning within the originally intended design parameters, indicating their satisfactory condition. A surge analysis was conducted, proposing the upgrade of air release valves along the 8-inch force main to increase the existing conveyance capacity. With the air release valve upgrade, the maximum allowable flow for the existing 8-inch force main will be 1,050 gpm.

Hydraulic modeling for pump selection and control strategy were conducted using Jacobs' software package "ReplicaTM". Flygt NP 3202 SH 3~273 pump model, coupled with a control strategy utilizing variable frequency drives (VFD), were selected for energy efficiency and optimal lift station operation. The chosen pumps meet the maximum flow requirement of 1,050 gpm, aligning with the surge analysis criteria and the District's current WWTP capacity of 0.35 MGD and slightly beyond. The study also verifies that the critical design parameters for the lift station are in compliance with Texas Commission on Environmental Quality 30 TAC 217 requirements.

1.2 Future Teleview Terrace Lift Station System Expansion

The projected ultimate lift station and force main conveyance capacity is 7.62 MGD (5,292 gpm), which would fully utilize the District's ultimate WWTP capacity of 1.905 MGD. To meet the remaining 4,242 gpm capacity, considering the existing 8" PVC force main's maximum capacity of 1,050 gpm, the second force main was sized for 18" diameter and would be constructed with PVC for greater surge protection. Two alternative routes for the future 18" force main were suggested in this study for further investigation (see Figure 2-6). Pump design involved the selection of Flygt NP 3315 MT 3~635 model to accommodate a maximum flow of 4,250 gpm. The control strategy entails operating two sets of three pumps in lead-lag sequence, with lead-lag designation changes for uniform wear. The transition from the next planned phase (0.80 MGD) to the ultimate treatment capacity (1.905 MGD) can be achieved by adjusting water surface level setpoints and pump conveyance using VFDs. Software interlocks ensure system integrity, and a maintenance strategy runs two duty pumps simultaneously at 100% speed twice a day for 30 seconds to prevent settled solids in the force main.

This study also provides a plan for the lift station's electrical requirements, presenting a site layout featuring protective measures like a canopy, and recommending a natural gas/diesel generator as a backup power source for existing and future pumps.



Figure 1-1. Vicinity Map

2. Project Summary

2.1 **Project Background and Objective**

The Fort Bend County Freshwater Supply District No. 1 (District) operates a lift station in the Teleview Terrace Subdivision that conveys wastewater flows from the southern region of the District to the City of Arcola's wastewater treatment plant (WWTP). The District will be expanding the WWTP to provide additional WWTP capacity for the District from its current treatment capacity of 0.35 MGD to 1.905 MGD over time, with the next planned phase of the expansion supplying 0.80 MGD of treatment capacity. Table 2-1 demonstrates the planned District's capacity in phases. Upgrades to the Teleview Terrace Lift Station to achieve the appropriate conveyance capacity is necessary to accommodate the next expansion of the City of Arcola's WWTP and to ultimately utilize the full treatment capacity of the plant.

This study investigates how the existing facility can be upgraded to optimize the capacity of the existing 8" force main and at the same time meet the current District's WWTP capacity. The project is expected to start construction in late 2024.

This study also investigates the ultimate conveyance capacity of the Teleview Terrace Subdivision Wastewater Lift Station through the addition of a future second force main and associated pumps, to increase the conveyance capacity of the facility to fully utilize the District's treatment capacity at the City of Arcola's WWTP. However, the design for the second force main and future pumps installation will take place under a different project.

Table 2-1 summarizes the planned District's WWTP capacity and assumed peak flow for the Teleview Terrace Lift Station to meet the District's WWTP capacity.

Scenario	District's WWTP Capacity, ADF (MGD)	Assumed Teleview Terrace Lift Station Peak Flow (MGD)	Peaking Factor	Project Scope
Current Treatment Capacity	0.35 (243.1 gpm)	1.4 (972.2 gpm)	4	Included in the study and designed for construction.
Next Planned Phase Treatment Capacity	0.80 (555.6 gpm)	3.2 (2,222.2 gpm)	4	Included in the study. Future project for design and construction.
Ultimate Treatment Capacity	1.905 (1,322.9 gpm)	7.62 (5,291.7 gpm)	4	Included in the study. Future project for design and construction.

Table 2-1. Design Criteria

2.2 Existing System

The existing lift station site is located along FM521, behind the Fresno Volunteer Fire Department (see Figure 1-1), and the existing force main extends to the City of Arcola WWTP site, along FM521 approximately 400 feet north of the intersection of Fenn Road and FM521. The existing facility can be found on Fort Bend County Key Map pages 651C, 651D, 651G, and 651L.

The existing wet well and force main of the lift station were constructed in 2014 and commissioned in 2015. The wet well has design dimensions of 16 feet in diameter and 26 feet in depth and contains three submersible pumps. The existing three constant speed submersible pumps, configured for two duty pumps in lead/lag operation and one on standby, collectively handle approximately 600 – 750 gpm. With only one pump under operation, the expected flowrate is approximately 505 - 580 gpm. Three 6" discharge risers from each of the submersible pumps extend to the wet well surface and connect to an 8" discharge force main. This force main, spanning a distance of approximately 9,540 feet, conveys wastewater from the lift station to the City of Arcola's WWTP's headworks. The above ground 8-inch discharge piping at the WWTP was constructed with ductile iron pipe with a total length of approximately 12 ft. The remaining below ground force main (approximately 9,528 ft) was constructed with AWWA C900 PVC DR 18 pipe, which conforms to a pressure rating of 235 psi.

2.3 Requirements for Optimization of Existing System

This task involves the replacement of the facility's existing pumps in order to optimize the conveyance capacity of the facility's existing 8-inch force main. The target conveyance capacity of the upgraded existing facility is 1.4 MGD (972 gpm), which is the assumed peak flow for the Teleview Terrace Lift Station with a peaking factor of 4 for the District's current WWTP capacity of 0.35 MGD.

2.3.1 Existing Lift Station Flow Test and System Calibration

On August 10th, 2023, a flow test was conducted at the Teleview Terrace Lift Station using a Pulsar PTFM 6.1 flowmeter calibrated with 0.25% accuracy, as detailed in Appendix A. The flow test results showed that each pump in the current wet well can individually pump between 510 and 526 gpm. When two pumps operate simultaneously, their combined flow rate can reach 695 gpm. The flow test results confirmed that the lift station is currently operating within its designed range.

In addition, the outcomes of the flow test were utilized as calibration points for the modeling efforts undertaken in this study. Jacobs' software package "Replica[™]" was used for hydraulic modeling of the pumps and the force main. The existing 8" PVC force main and associated pumps (Flygt Model NP3153.095 with a #274 impeller and 23HP, 3,510 RPM explosion proof motor) were modeled and calibrated. Existing pumps are constant speed pumps; thus, pumps were set at 100% speed in Replica[™] for calibration purposes. The hydraulic model in Replica[™] established for the existing lift station system calibration is shown in Figure 2-1. The comparison for flow test and calibration results are summarized in Table 2-2. As shown in Table 2-2, the calibrated flow and total dynamic head (TDH) are within ±10% and ±5%, respectively, as compared with the flow test, indicating that model is calibrated within an acceptable range. The model was used as the basis for the pump selection and pump control strategy development in the following section.



Figure 2-1. ReplicaTM Model of Existing 8" PVC Force Main and Existing Pumps

Scenario	Flow Test Measured Flow ¹	Flow Test Calculated TDH ²	Replica Calculated Flow	Replica Calculated TDH	% Flow Error	% TDH Error
	(gpm)	(ft)	(gpm)	(ft)		
Pump 1	526	98	561	90.8	-6.65%	7.35%
Pump 2	510	101	561	100	-10.00%	0.99%
Pump 3	525	103	561	100	-6.86%	2.91%
Pump 1 & 2	695	134	749	130.8	-7.77%	2.38%

Table 2-2. Flow Test Results and ReplicaTM Calibration Results Summary

1- A Pulsar PTFM 6.1 flow meter calibrated to 0.25% accuracy was used.

2-The TDH mentioned in the test results are based on the pump curve of existing pumps and not measured by a pressure measurement device.

2.3.2 Surge Analysis to Determine the Maximum Conveyance Capacity

To achieve the current peak flow of 1.4 MGD (972 gpm), it was determined that the velocity through the existing 8" force main would be 6.3 ft/s, which exceeds the TCEQ maximum of 6 ft/s. Therefore, a surge analysis was conducted to investigate the existing 8" conveyance system's maximum allowable flow rate. It is also used to determine whether modifications to the air release valves along the length of the force main could enhance the system's capacity with upgraded pumps. Additionally, the analysis aims to summarize the transient pressures that might occur throughout the system in the event of an emergency pump station shutdown or power failure at the Teleview Terrace Lift Station. The hydraulic transient analysis was executed using the Bentley HAMMER computer program. The steady-state model was constructed, and the flow test report generated from Section 2.3.1 was employed for system calibration. The comprehensive modeling criteria and results can be found in Appendix B. According to the surge

analysis results, upgrading the four air release valves downstream of the lift station along the force main to non-slamming CARVs could increase the maximum allowable flow rate for the existing 8" PVC force main to 1,050 gpm. Within the flow rate of 1,050 gpm, the existing force main can withstand high and low negative surge pressures in the event of sudden pump failure.

2.3.3 Pump Selection

As per Section 2.3.2, the surge analysis determined that the maximum conveyance capacity of the existing 8" PVC force main is 1,050 gpm (velocity at 6.8 ft/s), which not only satisfies the requirements for the current maximum peak flow of 1.4 MGD (972 gpm), but also contributes to meeting the ultimate District's conveyance capacity. Thus, the desired pumps for this project are sized to provide a maximum flow rate of 1,050 gpm.

2.3.3.1 Design Assumptions

The following assumptions were made during the pump selection design:

- The Hazen-Williams friction factor for ductile iron pipe and AWWA C900 PVC DR 18 pipe are 130 and 150, respectively. The existing system calibration model (Section 2.3.1) also confirmed that those numbers are relatively accurate to match the current pump operating condition.
- The diurnal flow pattern was assumed with a peak hour flow peaking factor of 4 and a minimum hour flow peaking factor of 0.2. Figure 2-2 shows the assumed diurnal flow pattern for the current treatment capacity of 0.35 MGD.



Figure 2-2. Assumed Diurnal Flow Pattern for Current Treatment Capacity

2.3.3.2 Pump Selection: Constant Speed Versus Variable Speed Pump Operation

In order to deliver a flow rate of 1,050 gpm to the City of Arcola's WWTP, the necessary TDH for the designated pumps were determined using the calibrated system curve developed in Section 2.3.1. The pump model Flygt NP 3202 SH 3~273 is able to meet the specified TDH and flow requirements.

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Therefore, it was selected to replace the existing pumps and the following pump control philosophy is developed based on this pump model.

The current pumps in the lift station are running at constant speed and set as lead and lag configuration with each pump controlled by one level setpoint. The same control strategy was applied to the selected new pumps (Flygt NP 3202 SH 3~273) with assumed diurnal flow pattern. Figure 2-3 represents the results from the dynamic simulation for a period of one day.

As shown in Figure 2-3, under the assumed diurnal flow pattern (dark blue line), the selected new pumps (light blue line) operating at ~900 gpm will turn on and off approximately 80 times a day (yellow line).



Figure 2-3. Dynamic Simulation Results for Constant Speed Pumps for Current Treatment Capacity

The frequent cycling of the selected pumps raises concerns about energy consumption and pump wear. Additionally, considering the existing wet well dimension of a 16' diameter, the cycle time for the selected new pumps, rated at 72 HP, is approximately 1 minute based on the current operational table. This does not meet the TCEQ 30 TAC 217 minimum cycle time requirement of 10 minutes for pumps in the 50 – 100 HP range (refer to Table 2-8). To address this issue and manage the wet well capacity for accommodating larger pumps, a Variable Frequency Drive (VFD) is necessary to regulate the cycle time.

Moreover, the Teleview Terrace Lift Station serves as the District's lift station that feeds all wastewater flow from the District's southern region into the City of Arcola's WWTP. Ensuring a consistent and stable wastewater flow to the City of Arcola's WWTP not only benefits its operation, but also prevents sudden increases in the load on the WWTP. Therefore, for operational ease, energy conservation, adherence to existing wet well dimensions, and pump protection, a control strategy involving pumps equipped with VFDs were evaluated. The use of VFDs allows pumps to adjust their speed as needed, maintaining a setpoint for the water surface level in the wet well. Results from a dynamic simulation over a one-day period using VFDs are illustrated in Figure 2-4. As demonstrated in Figure 2-4, under the same diurnal flow pattern (dark blue line), the selected pumps (sky blue line) will operate at ~ 490 gpm (60% speed) for most of the operation period except at peak flow conditions, during which they will operate at 1,050 gpm. Under this scenario, the pumps will turn on and off approximately 14 times a day. By operating pumps on VFDs, the pump cycling time is reduced by 82% and pumps are running at slower speeds. This will help save energy costs and prolong pump life with more efficient operation. Thus, VFDs were selected for this lift station's operation.



Figure 2-4. Dynamic Simulation Results for Variable Speed Pumps for Current Treatment Capacity The summarized pump selection criteria are listed in Table 2-3 below.

Pump Model	Flygt NP 3202 SH 3~273
No. of Pumps	2 Duty + 1 Standby
Equipment Name	Pump No. 1, Pump No. 2, Pump No. 3
VFD Rated	Yes
Maximum Flow Condition	1,050 gpm at 225.9 ft TDH with 2 duty pumps in operation
Normal Flow Condition (60% speed)	490 gpm with 74.5 ft TDH with 1 duty pump in operation
Maximum Horsepower	72 HP
Minimum Diameter of Solids Passing Through Pump	3 inches

Table 2-3. Pump Selection Summary

Figure 2-5 shows the system curve for the existing 8" PVC force main and pump curves for Flygt NP 3202 SH 3~273 model. As indicated in Figure 2-5, the new selected pumps can meet a maximum flow rate of

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1,050 gpm. Even though the selected pumps are capable of pumping more than 1,050 gpm, a software interlock on pump speed will be implemented so that pumps will not pump more than 1,050 gpm when both pumps are operating for surge protection purpose.



Figure 2-5. System Curve for Existing 8" PVC Force Main and Associated Pump Curves for Selected Pumps

2.3.4 Lift Station Pump Control Strategy

The pump control strategy is summarized in Tables 2-4 through 2-7. Overall, three pumps will be operating on VFDs and pump speed will be controlled using the pump manufacturer supplied 'Multismart' controller, which will operate based on water surface elevations in the wet well.

As summarized in Table 2-4, the lead pump initiates when the water level reaches the 'Lead Start' set point at the maximum speed to resuspend any settled and accumulated solids in the pump discharge piping and the force main and reduces to minimum speed after 10 seconds of operation at maximum speed (the recommended time setting shall be verified at the startup with staff input). The pump speed varies, increasing as the water surface level rises and decreasing as it falls until reaching the 'Lead Max' set point. After reaching the 'Lead Max' water surface level, the lead pump operates at its maximum speed (100% VFD speed) until the water surface reaches the 'Lag Start' set point.

At 'Lag Start,' the lag pump begins at its minimum speed, and the lead pump decreases to its minimum speed. Both pumps then simultaneously adjust their speeds, increasing with rising water levels and decreasing with falling water levels, until reaching the 'Lead and Lag Max' set point. At this point, both pumps operate at maximum speed, ensuring a flow rate of \leq 1,050 gpm to prevent surge issues. During a falling water surface cycle, when the water level drops to or remains below the 'Lag Stop' set point for 15 seconds (recommended time setting shall be verified at the startup with staff input), the lag pump turns off, and the lead pump accelerates to its maximum speed (100% VFD speed). The lead pump continues at maximum speed until the water surface falls below the 'Lead Max' set point. Below this point, the lead pump's speed varies until the water surface drops to or remains below the 'All Duty Pumps Off' set point for 15 seconds (recommended time setting shall be verified at the startup with staff input), prompting the lead pump to turn off.

This control strategy will try to maintain a relatively stable flow of wastewater to the City of Arcola's WWTP and avoid sudden increases in flow to the City of Arcola's WWTP. This will help optimize the WWTP's operation as it does not have equalization basins. It is recommended that lead-lag designation of pumps be changed after predetermined hours of pump operation for equal wear and tear on all the pumps to prolong pump life.

With the designed control strategy, the selected pumps will have the flexibility to operate within the District's current WWTP treatment capacity of 0.35 MGD with a peak flow of 1.4 MGD utilizing the existing 8" PVC force main. Appendix C shows the Replica[™] hydraulic model used for control strategy analysis and development. The pump speed for the software interlock will be established during the lift station startup, considering potential variables such as diurnal flow patterns, water surface levels at the wet well, and discharge location. During the startup, it is also recommended to vary the water surface elevation in the wet well to determine the appropriate pump speed for the software interlock.

DESCRIPTION	LEVEL SETPOINT (FT)	DESIRED FLOW RATE (GPM)	REMARKS
HIGH WATER ALARM	57.5	972	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT

Table 2-4. Pumj	o Operation for	Current Treatment	Capacity
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			FLOW DOES NOT EXCEED 972 GPM
LEAD AND LAG MAX	47.5*	972	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED 972 GPM
LAG START	47.0*	465	LAG PUMP STARTS AT MINIMUM POSSIBLE SPEED AND LEAD PUMP TURNS DOWN TO MINIMUM POSSIBLE SPEED
LAG STOP	46.8*	910	LAG PUMP STOPS AND LEAD PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD MAX	46.5*	910	PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD START	45.5*	375	PUMP STARTS AT MAXIMUM SPEED AND REDUCES TO MINIMUM POSSIBLE SPEED AFTER 10 SECONDS OF OPERATION AT MAXIMUM SPEED (TIME SHALL BE VERIFIED AT STARTUP)
ALL DUTY PUMPS OFF	44.75*	0	-
LOW WATER ALARM	44.0	0	-

*VALUES ARE OPERATOR ADJUSTABLE

Table 2-5.	Rising	Level	Cycle	Hardware	Interlock
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RISING LEVEL CYCLE HARDWARE INTERLOCK				
INTERLOCK WATER LEVEL (FT) ACTION				
		LEAD & LAG "ON" AT MAXIMUM POSSIBLE SPEED SO THAT		
HIGH-HIGH	57.50	FLOW IS NOT EXCEEDING 972 GPM		

Table 2-6.	Fallino	Level C	vcle I	Hardware I	Interlock
	i accing		yete i	iaiaiaic	neercoen

FALLING LEVEL CYCLE HARDWARE INTERLOCK				
INTERLOCK	WATER LEVEL (FT)	ACTION		
LOW-LOW	44.00	ALL PUMPS "OFF"		

Table 2-7. Software Interlock

SURGE PROTECTION SOFTWARE INTERLOCK			
MAXIMUM FLOWRATE	ACTION		
(GPM)			
≥ 1,050 FOR MORE THAN	LOCK LEAD AND LAG PUMP SPEED TO NOT EXCEED FLOW*		
2 MIN			

*PUMP SPEED TO BE DETERMINED AT START UP BY VARYING WATER LEVEL IN WET WELL

2.3.4.1 Lift Station Maintenance

To reduce the solids settling within the pipe, lift station controls include a control strategy to run the maximum allowable flow rate of 1,050 gpm two times a day for 30 seconds. This will reduce the presence of settled solids within the force main by achieving flushing velocity of more than 5 feet per second. The timing of this sequence should be pre-established in collaboration with the operating staff and must remain adjustable by the operator.

2.3.5 Conformance to Texas Commission on Environmental Quality (TCEQ)

TCEQ, Title 30, Part 1, Chapter 217, Subchapter C, Rule 217.51 to Rule 217.71 provides requirements for a lift station design. The important requirements applicable to the upgrades are discussed below.

• Per Rule 217.60, a gravity pipe discharging to a wet well must be located so that the invert elevation is above the liquid level of a pump's "on" setting.

<u>Response:</u> The existing gravity pipe has an invert elevation of 46.5 ft and lift station controls described in Section 2.3.4 uses pump "on" setting at 45.5 ft. Thus, the design is in compliance with the TCEQ requirements.

• Per Rule 217.60 (b) (7), a pump must run continuously during the pump cycle time, which begins when the pump is activated by the pump controls. Pump cycle time, based on peak flow, must equal or exceed those in Table 2-8.

Pump Horsepower	Minimum Cycle Times (Minutes)
<50	6
50 – 100	10
>100	15

Table 2-8. Minimum Cycle Times Per TCEQ

<u>Response:</u> In the current design, VFDs are selected to avoid frequent pump on/off cycling. The pump speed will increase/decrease to maintain the design surface water level. By implementing

the VFDs, the pump will cycle approximately 14 times a day, which is equivalent to a 102 minute cycle time. Therefore, this design is in compliance with the TCEQ requirements.

• Per Rule 217.61 (a) (2), a raw wastewater pump, with the exception of a grinder pump, must be capable of passing a sphere of 2.5 inches in diameter or greater.

<u>Response:</u> As detailed in Section 2.3.3.2, pumps will be specified to pass a sphere of 3 inches. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (a) (3) (A), for a lift station with three or more pumps, the minimum velocity in a force main is 2.0 feet per second with only the smallest pump operating at full speed.

<u>Response:</u> For the existing 8" PVC force main, with one pump operating at 50% speed (minimum possible VFD speed) and a flowrate of 375 gpm, the velocity is 2.4 feet per second. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (a) (3) (B), for a lift station with three or more pumps, a minimum flushing velocity of 5.0 feet per second or greater must occur in a force main at least twice daily.

<u>Response</u>: For the existing 8" PVC force main, based on assumed diurnal flow pattern and pump controls, dynamic analysis confirms that the force main will be pumping flow more than 800 gpm at least two times a day during which velocity will be more than 5 feet per second. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (a) (4), the engineering report must certify that a pipeline with a velocity greater than 6.0 feet per second can withstand high and low negative surge pressures in the event of sudden pump failure.

<u>Response:</u> For the existing 8" PVC force main, Section 2.3.2 provides surge analysis recommendations that have been incorporated in the design. The existing 8" pipeline can withstand high and low negative surge pressures in the event of sudden pump failure for the flowrate of 1,050 gpm. Thus, the lift station is in compliance with the TCEQ.

• Per Rule 217.67 (b), force main detention time calculations must be included in the engineering report. Force main detention time calculations must be performed using a range of flow rates that represent the flows expected to be delivered to a force main by an upstream pump station during any 24-hour period.

<u>Response:</u> For the existing 8" PVC force main, the minimum pumping capacity with a single pump is 375 gpm and the maximum pumping capacity of two duty pumps is 1,050 gpm. Thus, for approximately 9,546 feet of force main, the maximum detention time is approximately 67 minutes and minimum detention time is approximately 24 minutes.

2.4 Next Planned Phase and Ultimate Teleview Terrace Lift Station System Expansion

To fully utilize the District's ultimate treatment capacity at the City of Arcola's WWTP, which is 1.905 MGD, this study also aims to determine the ultimate conveyance capacity of the Teleview Terrace Subdivision Wastewater Lift Station, including the addition of a future second force main and associated pumps.

2.4.1 Ultimate Conveyance Capacity

The District's ultimate treatment capacity at the City of Arcola's WWTP will be 1.905 MGD (1,323 gpm), and with a peaking factor of 4, the ultimate required lift station and force main conveyance capacity will be 7.62 MGD (5,292 gpm). As mentioned above, the existing 8" PVC force main has a maximum conveyance capacity of 1,050 gpm with the new selected pumps sized to accommodate that flow rate; thus, the remaining conveyance capacity of 4,242 gpm will need to be provided by an additional force main and a future set of associated pumps.

2.4.2 Future Force Main Size and Proposed Route Alternatives

The required conveyance capacity of the future force main is 4,242 gpm. It is assumed that this force main will be composed of AWWA C905, DR 18 PVC pipe, which is the same material as the existing 8" PVC force main. Additionally, in order to keep the maximum velocity less than 6 ft/s to avoid potential surge issues, the minimum required size for the force main is 18" PVC.

As shown in Figure 2-6, two alternatives are proposed for the future 18" force main route from the Teleview Terrace Lift Station to the City of Arcola WWTP. Alternative 1 will utilize FM 521's right-of-way, railroad right-of-way, and other possible utility easements. Alternative 2 will utilize right-of-way within the District (City of Pearland ETJ), right-of-way within the City of Arcola, and other possible utility easements. A detailed study for the proposed 18" force main route will be conducted by a future project.



Figure 2-6. Future 18" Force Main Proposed Alternative Routes

2.4.3 Pump Selection

2.4.3.1 Design Assumptions

The following assumptions were made during the pump selection design:

- Hazen-William friction factor for ductile iron pipe and AWWA C905 PVC DR 18 pipe are 130 and 150, respectively. The existing system calibration model (Section 2.3.1) confirmed that those numbers are relatively accurate to match the current pump operating condition, therefore, they were used for the future pump operating conditions since similar pipe material will be used.
- The diurnal flow pattern was assumed with a peak hour flow peaking factor of 4 and a minimum hour flow peaking factor of 0.2. Figure 2-7 shows the assumed diurnal flow pattern for the ultimate treatment capacity of 1.905 MGD.



Figure 2-7. Assumed Diurnal Flow Pattern for Ultimate Treatment Capacity

As discussed above, the future set of pumps associated with the future force main will need to provide a peak flow capacity of 4,242 gpm to meet the District's ultimate treatment capacity at the City of Arcola's WWTP. Also, the lift station will have to meet the average flow requirement of 1.905 MGD (1,323 gpm) once the District's ultimate treatment capacity is in place at the City of Arcola's WWTP. The following design criteria was used for pump selection. Being raw sewage, the pumps are specified to pass minimum 3" diameter spherical solids. The pump selection design criteria are summarized in Table 2-9 below.

No. of Pumps	2 Duty + 1 Standby
Equipment Name	Pump No. 4, Pump No. 5, Pump No. 6
VFD Rated	Yes

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Maximum Flow Condition	4,250 gpm at 109.1 ft TDH with 2 duty pumps in operation
Normal Flow Scenario	2,125 gpm at 59 ft TDH with 1 duty pump in operation
Maximum Horsepower	140 HP
Minimum Diameter of Solids Passing Through Pump	3 inches

Based on the design criteria, Flygt NP 3315 MT 3~635 model was selected. Figure 2-8 shows the system curve for the future 18" PVC force main and the pump curves for the Flygt NP 3315 MT 3~635 model. As shown in Figure 2-8, the new selected pumps can meet the maximum flow rate of 4,250 gpm.



Figure 2-8. System Curve for Future 18" PVC Force Main and Associated Pump Curves for Selected Pumps (During two duty pump and one standby pump scenario, one pump [lead pump] is under
operation until the total flow rate reaches 2,125 gpm. When two pumps are operating, each pump has a separate riser resulting in a lower frictional headloss. Thus, a reduction in system curve headloss can be observed after 2,125 gpm.)

2.4.4 Hydraulic Modeling and Lift Station Pump Control for Next Planned Phase Expansion

To meet the next planned phase of providing the District wastewater treatment capacity with an average daily flow of 0.8 MGD (3.2 MGD peak), there will be three pumps (Pump No.1, Pump No. 2, Pump No. 3) associated with the existing 8" PVC force main and two future pumps (Pump No. 4, Pump No. 5) associated with the future 18" PVC force main. All the pumps will be operating on VFDs and the pump speeds will be controlled using pump manufacturer supplied 'Multismart' controller, which will operate based on water surface elevations in the wet well. As there are two different force mains, and each force main has an associated set of pumps, the two different sized pumps will be controlled separately for each force main. The control strategy for Pump No. 1, Pump No. 2 and Pump No. 3 will be the same as the control strategy provided in Section 2.3.4 and the future Pump No. 4 and Pump No. 5 will be operated at different water surface levels. The control strategy is shown in Table 2-10 and 2-11. With a total of 5 pumps operating, the lift station will be able to handle the flow range from 0.54 MGD - 3.2 MGD.

CONTROL FOR PUMP NO. 1, PUMP NO. 2, AND PUMP NO. 3			
DESCRIPTION	LEVEL SETPOINT (FT)	DESIRED FLOW RATE (GPM)	REMARKS
HIGH WATER ALARM	57.5	1,050	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED 1,050 GPM
LEAD AND LAG MAX	47.5*	1,050	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED 1,050 GPM
LAG START	47.0*	465	LAG PUMP STARTS AT MINIMUM POSSIBLE SPEED AND LEAD PUMP TURNS DOWN TO MINIMUM POSSIBLE SPEED
LAG STOP	46.8*	910	LAG PUMP STOPS AND LEAD PUMP RUNS AT

Table 2-10. Pump Operation for Next Planned Phase Treatment Capacity (0.8 MGD Average & 3.2 MGD Peak) for Pump No. 1 to No. 3

			MAXIMUM SPEED (VFD AT 100%)
LEAD MAX	46.5*	910	PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD START	45.5*	375	PUMP STARTS AT MAXIMUM SPEED AND REDUCES TO MINIMUM POSSIBLE SPEED AFTER 10 SECONDS OF OPERATION AT MAXIMUM SPEED (TIME SHALL BE VERIFIED AT STARTUP)
ALL DUTY PUMPS OFF	44.75*	0	_
LOW WATER ALARM	44.0	0	-

*VALUES ARE OPERATOR ADJUSTABLE

Table 2-11. Pump Operation for Next Planned Phase Treatment Capacity (0.8 MGD Average & 3.2 MGD Peak) for Pump No. 4 and Pump No. 5

CONTROL FOR FUTURE PUMP NO. 4 AND PUMP NO. 5			
DESCRIPTION	LEVEL SETPOINT (FT)	DESIRED FLOW RATE (GPM)	REMARKS
HIGH WATER ALARM	57.5	1,172	PUMP'S MAXIMUM SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED DISTRICT'S WWTP CAPACITY
PUMP MAX	51.5*	1,172	PUMP'S MAXIMUM SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED DISTRICT'S WWTP CAPACITY
PUMP START	50.0*	875	PUMP STARTS AT MAXIMUM SPEED AND REDUCES TO MINIMUM POSSIBLE SPEED AFTER 10 SECONDS OF

			OPERATION AT MAXIMUM SPEED (TIME SHALL BE VERIFIED AT STARTUP)
ALL DUTY PUMPS OFF	48.50*	0	-
LOW WATER ALARM	44.0	0	-

* VALUES ARE OPERATOR ADJUSTABLE

2.4.5 Hydraulic Modeling and Lift Station Pump Control for Ultimate Expansion

To provide the conveyance capacity of the lift station to fully utilize the District's ultimate wastewater treatment capacity at the City of Arcola's WWTP (1.905 MGD average and 7.62 MGD peak), one additional pump (Pump No. 6) will need to be installed that is associated with the future 18" PVC force main. All the pumps will be operating on VFDs and the pump speeds will be controlled using pump manufacturer supplied 'Multismart' controller, which will operate based on water surface elevations in the wet well. The control strategy is shown in Table 2-12 and Table 2-13. Table 2-14 and Table 2-15 summarizes hardware interlocks that shall be applicable to all the pumps in both the next planned phase of expansion and the ultimate phase.

The lift station pump capacity transition from the next planned phase treatment capacity of 0.8 MGD to the ultimate treatment capacity of 1.905 MGD will be done by two actions: (1) Install Pump No. 6 and (2) change water surface level setpoints.

CONTROL FOR PUMP NO. 1, PUMP NO. 2, AND PUMP NO. 3			
DESCRIPTION	LEVEL SETPOINT (FT)	DESIRED FLOW RATE (GPM)	REMARKS
HIGH WATER ALARM	57.5	1,050	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED 1,050 GPM
LEAD AND LAG MAX	55.0*	1,050	PUMPS' MAXIMUM POSSIBLE SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED 1,050 GPM

Table 2-12. Pump Operation for Ultimate Treatment Capacity (1.905 MGD Average – 7.62 MGD Peak) for Pump No. 1 to No. 3

LAG START	53.0*	465	LAG PUMP STARTS AT MINIMUM POSSIBLE SPEED AND LEAD PUMP TURNS DOWN TO MINIMUM POSSIBLE SPEED
LAG STOP	52.8*	910	LAG PUMP STOPS AND LEAD PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD MAX	51.5*	910	PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD START	50.0*	375	PUMP STARTS AT MAXIMUM SPEED AND REDUCES TO MINIMUM POSSIBLE SPEED AFTER 10 SECONDS OF OPERATION AT MAXIMUM SPEED (TIME SHALL BE VERIFIED AT STARTUP)
ALL DUTY PUMPS OFF	48.50*	0	_
LOW WATER ALARM	44.0	0	_

*VALUES ARE OPERATOR ADJUSTABLE

Table 2-13. Pump Operation for Ultimate	e Treatment Capacity for Pump No. 4 to No. 6

CONTROL FOR FUTURE PUMP NO. 4, FUTURE PUMP NO. 5, AND FUTURE PUMP NO. 6			
DESCRIPTION	LEVEL SETPOINT (FT)	DESIRED FLOW RATE	REMARKS
		(GPM)	
HIGH WATER ALARM	57.5	4,242	PUMPS' MAXIMUM SPEED IS MAINTAINED SO THAT FLOW DOES NOT EXCEED DISTRICT'S WWTP CAPACITY
LEAD AND LAG MAX	47.5*	4,242	PUMPS' MAXIMUM SPEED IS MAINTAINED

			SO THAT FLOW DOES NOT EXCEED DISTRICT'S WWTP CAPACITY
LAG START	46.5*	1,125	LAG PUMP STARTS AT MINIMUM POSSIBLE SPEED AND LEAD PUMP TURNS DOWN TO MINIMUM POSSIBLE SPEED
LAG STOP	46.3*	3,900	LAG PUMP STOPS AND LEAD PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD MAX	46.0*	3,900	PUMP RUNS AT MAXIMUM SPEED (VFD AT 100%)
LEAD START	45.5*	875	PUMP STARTS AT MAXIMUM SPEED AND REDUCES TO MINIMUM POSSIBLE SPEED AFTER 10 SECONDS OF OPERATION AT MAXIMUM SPEED (TIME SHALL BE VERIFIED AT STARTUP)
ALL DUTY PUMPS OFF	44.75*	0	_
LOW WATER ALARM	44.0	0	-

*VALUES ARE OPERATOR ADJUSTABLE

Table 2-14. R	lising Level	Cycle Hardware	Interlock
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RISING LEV	RISING LEVEL CYCLE HARDWARE INTERLOCK FOR NEXT PLANNED PHASE AND ULTIMATE EXPANSION		
INTERLOCK	WATER LEVEL (FT)	ACTION	
HIGH-HIGH			
(NEXT		PUMP "ON" AT MAXIMUM SPEED SO	
PLANNED		THAT FLOW IS NOT EXCEEDING 1,172 GPM FOR 18" FORCE	
PHASE)	57.50	MAIN AT DISTRICT'S NEXT PLANNED WWTP CAPACITY	
		LEAD & LAG "ON" AT MAXIMUM SPEED SO	
HIGH-HIGH		THAT FLOW IS NOT EXCEEDING 4,242 GPM FOR 18" FORCE	
(ULTIMATE)	57.50	MAIN	

FALLING LEVEL CYCLE HARDWARE INTERLOCK		
INTERLOCK	WATER LEVEL (FT)	ACTION
LOW-LOW	44.00	ALL PUMPS "OFF" FOR NEXT PLANNED PHASE AND
		ULTIMATE EXPANSION

Table 2-15. Falling Level Cycle Hardware Interlock

As discussed in Section 2.4.3, the maximum conveyance capacity of 4,242 gpm for the future Pumps 4 to 6 are required to meet the peak flow of the District's ultimate wastewater treatment capacity. Therefore, a software interlock on pump speed will be implemented so that pumps are not pumping more than 4,242 gpm when both pumps are operating. This approach will not only provide sufficient pumping capacity, but also will keep the velocity within the 18" PVC force main below 6 ft/s for surge protection purposes.

For lift station maintenance, a control strategy will be implemented to run two duty pumps simultaneously associated with each of the force mains at 100% speed two times a day for 30 seconds to keep the force mains free of any settled solids. The timing of this sequence should be pre-established in collaboration with the operating staff and must remain adjustable by the operator.

2.4.6 Conformance to Texas Commission on Environmental Quality (TCEQ)

TCEQ, Title 30, Part 1, Chapter 217, Subchapter C, Rule 217.51 to Rule 217.71 provides requirements for lift station design. The important requirements applicable to the upgrades are discussed below.

• Per Rule 217.60, a gravity pipe discharging to a wet well must be located so that the invert elevation is above the liquid level of a pump's "on" setting.

<u>Response</u>: The existing gravity pipe has an invert elevation of 46.5 ft and lift station controls described in Sections 2.4.4 and 2.4.5 use pump "on" settings at 45.5 ft. Thus, the design is in compliance with the TCEQ requirements.

• Per Rule 217.60 (b) (7), a pump must run continuously during the pump cycle time, which begins when the pump is activated by the pump controls. Pump cycle time, based on peak flow, must equal or exceed those in the Table 2-16.

Pump Horsepower	Minimum Cycle Times (Minutes)
<50	6
50 – 100	10
>100	15

Table 2-16. Minimum Cycle Times Per TCEQ

<u>Response</u>: In the current design, VFDs are selected to avoid frequent pump on/off cycling. The pump speed will increase/decrease to maintain the design surface water level. Therefore, this design is in compliance with the TCEQ requirements.

• Per Rule 217.61 (a) (2), a raw wastewater pump, with the exception of a grinder pump, must be capable of passing a sphere of 2.5 inches in diameter or greater.

<u>Response</u>: As detailed in Section 2.4.3.1, pumps will be specified to pass a sphere of 3 inches. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (a) (3) (A), for a lift station with three or more pumps, the minimum velocity in a force main is 2.0 feet per second with only the smallest pump operating at full speed.

<u>Response</u>: For the future 18" PVC force main, with one pump operating at full speed of 3,900 gpm, the velocity is 4.92 feet per second. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (a) (3) (B), for a lift station with three or more pumps, a minimum flushing velocity of 5.0 feet per second or greater must occur in a force main at least twice daily.

<u>Response</u>: For the future 18" PVC force main, based on assumed diurnal flow pattern and pump controls, dynamic analysis confirms that the force main will be pumping flow more than 3,680 gpm at least two times a day during which velocity will be more than 5 feet per second. Additionally, as described in Section 2.4.5, control strategy includes an operational sequence to run two duty pumps at 100% speed two times a day for 30 seconds. This will keep each force main free of any settled solids by achieving flushing velocity of more than 5 feet per second two times a day. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67(a) (4), the engineering report must certify that a pipeline with a velocity greater than 6.0 feet per second can withstand high and low negative surge pressures in the event of sudden pump failure.

<u>Response</u>: The future 18" PVC force main has been designed to keep maximum velocities below 6 feet per second as discussed in Section 2.4.2. Thus, the lift station is in compliance with the TCEQ requirements.

• Per Rule 217.67 (b), force main detention time calculations must be included in the engineering report. Force main detention time calculations must be performed using a range of flow rates that represent the flows expected to be delivered to a force main by an upstream pump station during any 24-hour period.

<u>Response</u>: For the future 18" PVC force main, the minimum pumping capacity with a single pump is 875 gpm and the maximum pumping capacity of two duty pumps is 4,242 gpm. Thus, for approximately 9,546 feet (assumed Alternative 1 route) of force main, the maximum detention time is approximately 145 minutes and minimum detention time is approximately 30 minutes.

2.5 Electrical Upgrades

This study takes into account the overall electrical service, electrical loads, and electrical facilities needed for the existing system upgrades, next planned phase, and the ultimate expansion phase. Figure 2-9 illustrates the suggested ultimate site layout, incorporating current electrical equipment, proposed electrical equipment necessary for the existing system upgrade, and future equipment for the next planned phase and for the ultimate lift station expansion. As shown in Figure 2-9, a canopy will be provided for coverage of a portion of the existing and future electrical equipment. This protective measure will be implemented to shield the equipment from sun exposure, thereby prolonging the lifespan of the electrical equipment.

Additionally, a future natural gas/diesel generator is proposed for the next planned expansion phase, intended as a dedicated backup power source capable of supporting two upgraded pumps at 72 HP and

two future pumps at 140 HP. The dimensions of the proposed generator are shown in Figure 2-9. The proposed generator size is based on a natural gas generator. A new service disconnect was designed during the existing system upgrade project for easy replacement with an automatic transfer switch during the installation of the future generator.



Figure 2-9. Proposed Site Layout

Appendix A. Lift Station Flow Test



HAHN EQUIPMENT CO., INC.

5636 KANSAS • HOUSTON, TX 77007 • PHONE # 713-868-3255 • FAX # 868-9725

8/14/2023

Jacobs Jingjing Fan, Ph.D, P.E. 818 Town and Country Blvd Suite 500 Houston, TX 77024

Re: Teleview Terrace Lift Station Flow Test Report Hahn Job: CP-2861

A flow test was run at the Teleview Terrace lift station on August 10, 2023.

A Pulsar PTFM 6.1 flow meter calibrated to .25% accuracy was used on a horizontal 8" ductile iron pipe at the lift station.

The maximum static head from the pump volute centerline to the centerline of the 8" pipe is 28'.

Installed pumps are Flygt model NP3153.095 with a #274 impeller 23HP, 3510RPM explosion proof motor.

FLOW READINGS

Pump 1	526GPM	20' static	98' head
Pump 2	510GPM	22' static	101' head
Pump 3	525GPM	23' static	103' head
Pumps 1&2	695GPM	22' static	134' head

The attached pump curve shows all four of projected system curves superimposed over the pump curve, based on reading at the site flow test.

Thank you for the opportunity to work with you on this project.

Sincerely,

Charlie G

Charlie Gioielli 281 546-0860.

Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



Technical specification



		(ft) Hez 200 200 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 0 00 0 00 0	id	61.2%	600 70 Cu mance from th	274 176mm 0 [US g.p.m.] rve: ISO 9906 nis data should
Configuration Motor number	Installation type	Pleas	e consult your local Flyg	representative for p	erformance gu	arantees.
N3153.185 21-18-2BB-W 23hp	P - Semi permanent, Wet					
Impeller diameter 176 mm	Discharge diameter 3 inch	Configura	tion			
Pump information		Material				
Impeller diameter 176 mm		Impeller Hard-Iron ™				
Discharge diameter 3 inch						
Inlet diameter 150 mm						
Maximum operating speed 3510 rpm						
Number of blades 2						
Max. fluid temperature 40 °C						
Project Xylect-2099 Block	4575	Created by	Charlie Gioielli 8/14/2023 Jactim	ndate	8/14/2023	
		created on	3/14/2023 Last u	Judie	5/ 14/ 2023	

Curves according to: Water, pure Water, pure [100%], 39.2 °F, 62.42 lb/ft³, 1.6891E-5 ft²/s

Technical specification

Motor - General

Motor number	Phases	Rated speed	Rated power
N3153.185 21-18-2BB-W 23hp	3~	3510 rpm	23 hp
ATEX approved	Number of poles	Rated current	Stator variant
No	2	26 A	4
Frequency	Rated voltage	Insulation class	Type of Duty
60 Hz	460 V	н	S1
Version code			
185			
Motor - Technical			
Power factor - 1/1 Load	Motor efficiency - 1/1 Load	Total moment of inertia	Starts per hour max.
0.91	91.0 %	0.759 lb ft²	30
Power factor - 3/4 Load	Motor efficiency - 3/4 Load	Starting current, direct starting	
0.87	91.5 %	207 A	
Power factor - 1/2 Load	Motor efficiency - 1/2 Load	Starting current, star-delta	
0.79	91.5 %	69 A	

Project Block

Xylect-20994575

Created by Charlie Gioielli Created on 8/14/2023 Last update

8/14/2023



a **xylem** brand

Program version 69.0 - 5/15/2023 (Build 33)

Usergroup(s) Xylem:USA-EXT



Data version 7/20/2023 9:39 A7 P7



Duty Analysis





Duty Analysis





Duty Analysis



Appendix B. Surge Analysis

Jacobs

Technical Memorandum

Jacobs

1100 NE Circle Blvd, Suite 300 Corvallis, OR 97330 (541) 752-4271 www.jacobs.com

Subject	Surge Analysis Report
Project Name	Teleview Terrace Lift Station and Force Main
Attention	
From	Jacobs Engineering
Date	22 October 2023

1. Introduction

The Client has contracted with Jacobs to assist with engineering services for this project. The purpose of this Technical Memorandum (TM) is to determine the maximum allowable flow rate would be for the system as currently designed, find if changes to the air release valves would help increase the conveyance capacity of the system with new pump units, and summarize the transient pressures that may be experienced along the system resulting from an emergency pump station shutdown or power failure at Teleview Terrace Lift Station.

2. Modeling Criteria

The hydraulic transient analysis was conducted using the Bentley HAMMER computer program. HAMMER uses the method of characteristics as described in Wylie and Streeter (1993).¹ HAMMER allows engineers to analyze the pressure effects of a wide range of operating conditions such as pump startup, pump shutdown, valve opening and valve closure, and surge protection devices to control pressures to acceptable limits.

The steady state model was initially built using available as-built drawings and information available about the existing air release valves and pump units. An available flow test report was also used to calibrate the system. Slightly adjusting the Hazen-Williams C factor for the PVC pipes from a regular 150 to 146.5 was enough to match the maximum single pump flow rate for the system as specified in the flow test report.

Figure 1 provided in the Attachment to this TM shows the model layout. The model consisted of the force main, the Teleview Terrace pump station, discharge at the Wastewater Treatment Plant (WWTP), and air release valves. Table 1 summarizes the assumed characteristics of the pipes in addition to the following assumptions made for all pipes:

- Material: PVC and Ductile Iron (DI)
- Hazen-Williams C: 146.5 for PVC and 130 for DI

¹ Wylie and Streeter. 1993. *Fluid Transients in Systems*.

Nominal Diameter (inches)	Wave Speed (ft/s)
7.98 (PVC)	1,585
6 (DI)	4,291
8 (DI)	4,142

Table 1. Summary of Characteristics of the Pipes

ft/s = feet per second

Table 2 summarizes the Teleview Terrace pumps characteristics:

Table 2. Summary of Characteristics of the Teleview Terrace LS Pumps

Pump	Design Flow (gpm)	Design Head (feet)	Pump Efficiency (%)	Motor Efficiency (%)	Inertia (lb ft²)	Speed (rpm)
(original)	349	135	57.9	90	0.759	3,510
(upgraded)	524	202.5	60	90	3.067	3,510

gpm = gallons per minute

lb ft² = pounds per square foot

rpm = revolution(s) per minute

The scenarios considered in this model evaluation are summarized in Table 3.

Boundaries applied to the model included hydraulic grade line at the Teleview Terrace Wet Well and at the WWTP. The following are the values:

- HGL at Teleview Terrace Wet Well: 46 feet
- HGL at WWTP: 74 feet

The vapor pressure was assumed to be -14.2 psi. Negative pressures of -14.2 psi will result in vaporization, or cavitation, of the water in the pipes. This is also referred to as column separation. This is a serious condition that has been shown to degrade pipe linings, damage fittings and joints, and can have more severe consequences, including pipe collapse if the pipe is not able to withstand the full vapor pressure. To reduce the risk of these potential damaging consequences, the recommended minimum pressure is typically 50% of the vapor pressure which is -7.1 psi.

The maximum flow rate condition with current pumps on was set at 900 gpm for Scenario 1 below.

Table 3. Summary of Scenarios

Scenario	Pumps in Service	Trigger Event	Description	Assumed Surge Mitigation for Model
1	3	Power Failure	Includes originally selected air	None
			release valves along the system.	

Scenario	Pumps in Service	Trigger Event	Description	Assumed Surge Mitigation for Model
2	2	Power Failure	Upgraded pump units. The four air release valves downstream of the lift station along the force main are upgraded to non-slamming CARVs.	Non-slamming CARVs

3. Results

- Scenario 1 indicates that negative surge pressures drop below the minimum recommended by Jacobs of -7.1 psi reaching -11.8 psi. The upsurge only produces a mild increase in pressure. See Table 4 for pressure values. Refer to Figures 2 and 3 for results. Note that these are envelop plots showing maximum and minimum surge pressures observed along the system for the entire simulation, and not at a single specific moment in time.
- Scenario 2 shows that by upgrading the four air release valves installed along the force main to nonslamming combination air release vacuum valves, negative surge pressures drop below the minimum recommended by Jacobs of -7.1 psi reaching -12.5 psi. See Table 4 for pressure values. Refer to Figures 4 and 5 for results.

Scenario	Flow Rate (gpm)	Minimum Pressure (psi)	Maximum Pressure (psi)
1	900	-11.8	74
2	1,050	-12.5	90

Table 4. Summary of Surge Analysis Results

4. Conclusions and Recommendations

This section summarizes the primary conclusions and recommendations of the surge analysis.

 For PVC pipes it is allowable to permit surge pressures to drop below the normal limit set by Jacobs of half the vapor pressure, which in this case is -7.1 psi. As PVC pipes are not lined with any material, the risk to the pipe is not significant, and the collapse pressure is below the vapor pressure. Even then we are not allowing for cavitation to occur by staying above -14.2 psi. **Attachment: Figures and Model Output**

Attachment Figures

Figure 1. Model Outline	2
Figure 2. Minimum and Maximum HGL Profiles for Scenario 1 – Teleview LS Sudden Shutdown	3
Figure 3. Minimum and Maximum Pressure Profiles for Scenario 1 - Teleview LS Sudden Shutdown	3
Figure 4. Minimum and Maximum HGL Profiles for Scenario 2 - LS Sudden Shutdown + CARVs	4
Figure 5. Minimum and Maximum Pressure Profiles for Scenario 2 - LS Sudden Shutdown + CARVs	4



Figure 1. Model Outline



Figure 2. Minimum and Maximum HGL Profiles for Scenario 1 – Teleview LS Sudden Shutdown



Figure 3. Minimum and Maximum Pressure Profiles for Scenario 1 - Teleview LS Sudden Shutdown



Figure 4. Minimum and Maximum HGL Profiles for Scenario 2 - LS Sudden Shutdown + CARVs



Figure 5. Minimum and Maximum Pressure Profiles for Scenario 2 - LS Sudden Shutdown + CARVs

Appendix C. Replica [™] Model

Replica[™] Model for Pump No. 1, Pump No. 2 and Pump No. 3. (Page 1/2)



Replica[™] Model for Pump No. 1, Pump No. 2 and Pump No. 3. (Page 2/2)



Replica[™] Model for Pump No. 1, Pump No.2 and Pump No. 3, Pump No. 4, Pump No. 5, and Pump No. 6.







Fort Bend County FWSD No. 1 Operations Report

Board Meeting 10/17/24

Robert Cardenas

Robert Cardenas Account Manager

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FWSD1 EXECUTIVE SUMMARY

Previous Meeting Action Item Status

Item	Location	Description	Status
Delinquents	District area	Past due accounts	Disconnected (13)
Smoke Testing	District area	Testing for infiltration issue; Private and public	Being quoted
Sanitary Manhole Survey	District area	\$55 per manhole- 175 manholes total; Est cost \$9,625.00	Approved; In progress
FM 521 Road Widening	District area	Relocation plan Est of \$53,233.70	Complete

Current Items Requiring Board Approval

Item	Location	Description	Status
Delinquent Accounts	District area	Past due accounts	Review
Portable Generator	Lift stations	Portable generator with chords and receptacles for lift stations; Est cost - \$95,050.00	Review
Diesel Reserve Tank System	Water Plant 1	1,000-gallon fuel reserve tank plus added plumbing work for current generator; Est cost- \$15,000.00	Review

Operations Expenses:

Total Amount Invoiced: \$47,895.43

Financial Recap:

Total Receivables: \$ 162,931.37

Compliance Summary:

Water Production Report:

• Water accountability for the month of September is at 92.4% with 12-month average of 92.5%.

Operations Summary:

- Delinquent Letters
 - 159 delinquent letters were mailed in advance of today's meeting.
- Collections
 - There are no accounts to be sent to collections for September 2024.
- Write Offs
 - There are no accounts to be written off for September 2024.
- Customer Care
 - There were 17 service calls received. 2 water quality calls, 8 high usage calls, 2 leaks, and 5 issues for no water. 1 district issue found (hydrant).
 - There are 4 customer appeals

Substantial Repairs & Maintenance

1219 Avenue B Repairs to leaking hydrant.	\$2,808.93
• 3306 Maryland St Installed New hydrant at location.	\$7,723.38
• 4439 Tulip Ln Installed 5/8 x 3/4 water tap.	\$2,593.26
• 228 Willow St Install 5/8 x 3/4 water tap.	\$2,000.60

Fort Bend FWSD No. 1 Utility Billing Summary



Fort Bend FWSD No. 1 Utility Billing Detail Report

	August 13, 2024		July 13, 2024		August 13, 2023		
Beginning Date		08/20/24		07/20/24		08/17/23	
Closing Date		09/19/24		08/19/24		09/19/23	
No. of Days		30		30	_	30	
Beginning Balance	\$	235,490.90	\$	220,461.95	\$	210,402.56	
Adjustments	-				-		
Back Charge	\$	248.00	\$	248.00	\$	744.00	
Collections	\$	-	\$	-	\$	(6,444.72)	
Credit Refund	\$	362.69	\$	1,017.25	\$	412.72	
Deposits	\$	3,174.00	\$	2,685.00	\$	2,250.00	
Disconnection	\$	1,200.00	\$	1,125.00	\$	1,125.00	
Inspections	\$	650.00	\$	1,175.00	\$	375.00	
Letter Fee	\$	2,325.00	\$	3,180.00	\$	2,175.00	
NFBWA	\$	19.28	\$	-	\$	19.28	
NSF Fee	\$	120.00	\$	120.00	\$	150.00	
Penalty	\$	3,585.03	\$	3,317.70	\$	3,720.01	
Return Check	\$	713.42	\$	520.72	\$	487.36	
Tap Fee	\$	15,000.00	\$	29,820.00	\$	9,389.11	
Transfer	\$	390.00	\$	300.00	\$	210.00	
Unapplied	\$	(256.54)	\$	(571.89)	\$	-	
Water	\$	54.00	\$	-	\$	23.50	
Well Permit Fee	\$	-	\$	-	\$	200.00	
Door Hanger Fee	\$	320.00	\$	1,620.00	\$	1,180.00	
Total Adjustments	\$	27,904.88	\$	44,556.78	\$	16,016.26	
Collected Amounts							
Back Charge	\$	(248.00)	\$	(248.00)	\$	(546.10)	
Credit Refund	\$	(552.61)	\$	-	\$	-	
Deposits	\$	(3,014.00)	\$	(3,050.00)	\$	(2,081.33)	
Disconnection	\$	(1,019.25)	\$	(996.67)	\$	(986.32)	
Door Hanger Fee	\$	(1,327.64)	\$	(1,350.04)	\$	(1,404.97)	
Grease Trap Inspection	\$	(75.00)	\$	(75.00)	\$	(75.00)	
Inspections	\$	(450.00)	\$	(1.208.20)	\$	(460.00)	
NFBWA	\$	(49,277,94)	\$	(45,246,46)	\$	(52,205,55)	
NSF Fee	\$	(171.00)	\$	(33.10)	\$	(120.00)	
Penalty	\$	(2.529.06)	\$	(1.545.29)	\$	(4.623.43)	
Sewer	\$	(20,559,80)	\$	(19,781,12)	\$	(20,523,45)	
Sewer - COA	\$	(5,250.37)	\$	(5,592.68)	\$	(5,913.16)	
Tap Fee	\$	(13,740.64)	\$	(27,589.21)	\$	(9,186.94)	
Transfer	\$	(420.00)	\$	(300.00)	\$	(180.00)	
Water	\$	(59,290.92)	\$	(56,190.07)	\$	(61,365.57)	
Letter Fee	\$	(2,579.33)	\$	(3,111.67)	\$	(2,096.32)	
Total Collected	\$	(160,505.56)	\$	(166,317.51)	\$	(161,768.14)	
Overpayments	\$	(2,425.81)	\$	(2,870.43)	\$	(3,067.53)	
Total Collected	\$	(162,931.37)	\$	(169,187.94)	\$	(164,835.67)	
Deposits Applied] [\$	(2,800.00)	\$	(1,837.00)	\$	(1,551.00)	
Billed Amounts	-			i		,	
NFBWA] [\$	52,422,32	\$	52,128,30	\$	54,914,26	
Sewer	\$	21,264,50	\$	20.665.75	\$	20,472.00	
Sewer - COA	\$	5.526.00	\$	5.526.00	\$	5.526.00	
Water	\$	62.901.19	\$	63,102.06	\$	63.852.69	
Grease Trap Inspection	\$	75.00	\$	75.00	\$	75.00	
Total Billed	\$	142,189.01	\$	141,497.11	\$	144,839.95	
Aged Receivable							
Total 90 Day Arrears	\$	25.726.49	\$	18.088.14	\$	14.788.62	
Total 60 Day Arrears	\$	17,151 40	\$	14,411,96	\$	9.573.80	
Total 30 Day Arrears	\$	63.071.88	\$	69,535,63	\$	44,166.36	
Unapplied Credits	\$	(139.52)	\$	(188.94)	\$	(452.78)	
Total Aged Receivable	\$	105.810.25	\$	101.846.79	\$	68.076.00	
Current Receivable		124 042 47	¢	122 644 44	¢	126 706 10	
Total Receivable	⇒ \$	239 853 42	э \$	235 490 90	э \$	204 872 10	
	- <u> </u>			alandar Marth	.	207,012.10	
		Electronic Payment 3	วเสเร - (

	Aug-24	<u>Jul-24</u>	Aug-23
Check Consolidation	84	91	61
Lockbox/ Remote Deposit	190	199	0
Credit Card	1,007	937	946
ACH	317	308	296
Total	1598	1535	1303

Fort Bend FWSD No. 1 Connection/Active Accounts

Connection Count	August 13, 2024	July 13, 2024	August 13, 2023
Residential Water Only	1068	1068	1056
Vacant Residential Water Only	77	78	67
Residential Full Service	565	564	544
Vacant Residential Full Service	25	25	24
Residential Water Only (Arcola sewer)	101	101	101
Vacant Residential Water Only (Arcola sewer)	10	10	8
Fire Line Non - Profit/Tax	5	5	4
Multi-Family	3	3	3
Builder-10A	1	1	1
Builder Connection	0	0	0
Builder- Full Service	0	0	0
Builder Deposit	16	16	14
Commercial Water Only	18	19	18
Commercial Water Only (Arcola sewer)	2	2	2
Commercial w/GT	3	2	2
Commercial Water Only w/ GT	1	1	1
Commercial- Full Service	0	0	0
3rd Party Backcharge	1	1	1
Com Mfg & Industrial Full Service	1	1	1
Com Mfg & Industrial- Full Service	0	0	0
Non-Profit - Fresno VFD	0	0	0
HOA Irrigation	0	0	0
Commerical Irrigation	3	3	3
Ft Bend City. Water Only	1	1	1
Ft Bend Co. Full Service	2	2	2
Ft Bend Co. Water Only	0	0	0
Churches - Water Only	5	5	5
Churches - Full Service	3	3	3
District Meter	1	1	1
Interconnect - No Bill Arcola	1	1	1
Total	1913	1913	1863
Water use per ESFC	338	336	370

Tap Activity

Month		Month	
Sep-24	2	Sep-23	5
Aug-24	1	Aug-23	0
Jul-24	12	Jul-23	0
Jun-24	9	Jun-23	4
May-24	9	May-23	7
Apr-24	1	Apr-23	0
Mar-24	1	Mar-23	3
Feb-24	3	Feb-23	16
Jan-24	1	Jan-23	9
Dec-23	4	Dec-22	0
Nov-23	5	Nov-22	0
Oct-23	0	Oct-22	9
Total	48		53
Fort Bend FWSD No. 1 Water Quality Monitoring Report

Disinfection Monitoring



Maximum Residual Disinfectant Level (MRDL)

Month	Sep-24	Aug-24	Jul-24
# TCR Samples	5	5	5
# Disinfectant Samples	35	36	36
Average Disinfection Res.	1.56	1.71	1.40
Highest Reading	2.10	2.15	2.10
Lowest Reading	1.12	1.39	1.04
# Below Limit	0	0	0
# With None Detected	0	0	0

Fort Bend FWSD No. 1 Water Production Report

	*Purchased Interconnect usage is estimated.									
								L 4	Accountability	1
Period	Production	Billed	Water	Water	Total Billed	Maintenance	Water	Without	One Month	12 Month
Ending	(MG)	(MG)	Sold (MG)	Purchased	(MG)	(MG)	Loss	Maintenance	(%)	Avg.
Sep-5-24	12.178	10.910	0.000	0.000	10.910	0.345	1.268	89.6%	92.4%	92.5%
Aug-5-24	12.079	10.843	0.000	0.000	10.843	0.023	1.236	89.8%	90.0%	92.4%
Jul-3-24	10.157	9.032	0.000	0.000	9.032	0.025	1.125	88.9%	89.2%	93.0%
Jun-5-24	10.987	9.541	0.000	0.000	9.541	0.510	1.446	86.8%	91.5%	93.3%
May-6-24	10.404	8.878	0.000	0.000	8.878	0.633	1.526	85.3%	91.4%	93.5%
Apr-8-24	11.542	10.176	0.007	0.000	10.183	0.322	1.359	88.2%	91.0%	93.6%
Mar-4-24	8.767	8.039	0.000	0.000	8.039	0.586	0.728	91.7%	98.4%	93.8%
Feb-5-24	9.411	8.992	0.000	0.000	8.992	0.600	0.419	95.5%	101.9%	93.4%
Jan-9-24	10.450	9.350	0.000	0.000	9.350	0.010	1.100	89.5%	89.6%	92.9%
Dec-6-23	10.014	8.897	0.028	0.000	8.925	0.093	1.089	89.1%	90.0%	91.5%
Nov-6-23	9.709	8.759	0.423	0.000	9.182	0.075	0.527	94.6%	95.4%	91.9%
Oct-9-23	12.154	10.844	0.000	0.000	10.844	0.016	1.310	89.2%	89.2%	91.5%
Sep-7-23	12.544	11.395	0.000	0.000	11.395	0.016	1.149	90.8%	91.3%	92.1%
Aug-8-23	11.490	11.100	0.001	0.000	11.101	0.015	0.389	96.6%	96.7%	91.7%
Jul-10-23	12.209	11.329	0.000	0.000	11.329	0.045	0.880	92.8%	93.2%	91.1%
Jun-7-23	11.168	10.094	0.329	0.000	10.423	0.045	0.745	93.3%	93.7%	91.2%
May-5-23	12.341	8.393	2.773	0.000	11.166	0.215	1.175	90.5%	92.2%	91.2%
Apr-6-23	13.167	8.693	3.609	0.000	12.302	0.050	0.865	93.4%	93.8%	91.2%
Mar-7-23	12.320	7.843	3.642	0.000	11.485	0.045	0.835	93.2%	93.6%	91.1%
Feb-7-23	12.545	8.184	3.827	0.000	12.011	0.000	0.534	95.7%	95.7%	91.0%
Jan-9-23	17.697	9.915	2.955	0.000	12.870	0.000	4.827	72.7%	72.7%	90.8%
Dec-7-22	11.907	8.164	3.211	0.000	11.375	0.000	0.532	95.5%	95.5%	92.1%
Nov-7-22	13.662	9.166	3.172	0.000	12.338	0.000	1.324	90.3%	90.3%	90.4%
Oct-6-22	13.483	9.872	3.053	0.000	12.925	0.000	0.558	95.9%	95.9%	90.5%





ər	Production

Fort Bend FWSD No. 1 Customer Service Report

September-24

Customer Name	Call Date	Address	Description of Call
Water Quality Complain	ts		
	9-Sep-24		Customer reported discolored water. Flushed hydrant until water ran clear with no odor.
	9-Sep-24		Customer reported discolored water. Flushed hydrant until water ran clear with no odor.
Problems Reported			
	6-Sep-24		Customer reported a possible water leak. Found no evidence of a leak.
	9-Sep-24		Customer reported a possible water leak. Found leak on hydrant. Blackbagged hydrant and scheduled for repairs.
	10-Sep-24		Customer reported no water. Found main valve off. Turned valve on and water services were restored. Made customer contact.
	10-Sep-24		Customer reported no water. Found main valve off. Turned valve on and water services were restored. Made customer contact.
	13-Sep-24		Customer reported no water. Found meter off. Turned meter on and water services were restored.
	18-Sep-24		Customer reported no water. Upon arrival, water services were restored. Made customer contact.
	20-Sep-24		Customer reported low pressure. Found curbstop partially closed. Fully opened curbstop and found normal water pressure.
Billing Disputes			
	5-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found movement on leak indicator. Made customer contact.
	6-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
	13-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found movement on leak indicator.
	13-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
	16-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
	20-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
	30-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
	30-Sep-24		Customer requested a meter re-read due to high consumption. Meter read was in-line with previous reads. Found no movement on leak indicator.
Customer Corresponde	nce		
None			

Fort Bend FWSD No. 1 Delinquent Notice/Service Disconnect Report

Date	Delinquent Letters	Date Mailed	Door Hangers	Date Hung	Disconnects	Date of Disconnect
October-24	159	10/07/24		01/00/00		01/00/00
September-24	156	09/06/24	35	09/23/24	13	10/09/24
August-24	212	08/05/24	65	08/19/24	12	08/26/24
July-24	154	07/09/24	50	07/22/24	15	07/29/24
June-24	159	06/10/24	46	06/24/24	9	07/01/24
May-24	180	05/06/24	54	05/20/24	12	05/29/24
April-24	182	04/05/24	43	04/22/24	15	04/30/24
March-24	163	03/08/24	41	03/22/24	5	04/01/24
February-24	209	02/01/24	55	02/19/24	10	02/26/24
January-24	176	01/08/24	56	01/24/24	15	01/30/24
December-23	212	12/04/23	38	12/28/23	16	01/02/24
November-23	199	11/03/23	44	11/21/23	16	11/29/23
October-23	164	10/06/23	35	10/31/23	23	11/07/23
September-23	145	09/11/23	53	09/25/23	14	10/02/23
August-23	180	08/04/23	44	08/22/23	15	08/28/23
July-23	161	07/10/23	45	07/24/23	10	07/31/23
June-23	170	06/05/23	67	06/19/23	9	06/27/23
May-23	165	05/05/23	61	05/19/23	18	05/25/23
April-23	157	04/10/23	55	04/24/23	11	05/04/23
March-23	188	03/06/23	43	03/23/23	13	03/29/23
February-23	182	02/06/23	61	02/21/23	18	02/27/23
January-23	190	01/09/23	62	01/23/23	16	01/30/23
December-22	228	11/06/22	67	12/22/22	9	01/05/23
November-22	173	11/07/22	41	11/30/22	7	12/06/22

	Current Month Terminations								
Account	Name	Address	Total Due	Deposit	Turn-Off Date	Turn-On Date			
248230			\$1,786.00	\$150.00	9-Oct-24	LOCKED			
251706			\$1,045.47	\$100.00	9-Oct-24	LOCKED			
215220			\$602.69	\$100.00	9-Oct-24	9-Oct-24			
80798			\$518.01	\$1.00	9-Oct-24	10-Oct-24			
159005			\$418.86	\$100.00	9-Oct-24	LOCKED			
81790			\$413.03	\$201.00	9-Oct-24	9-Oct-24			
191593			\$400.57	\$100.00	9-Oct-24	9-Oct-24			
250882			\$393.20	\$100.00	9-Oct-24	LOCKED			
250883			\$393.20	\$100.00	9-Oct-24	LOCKED			
250880			\$393.20	\$100.00	9-Oct-24	LOCKED			
194123			\$366.90	\$100.00	9-Oct-24	9-Oct-24			
80937			\$366.90	\$101.00	9-Oct-24	10-Oct-24			
231963			\$328.05	\$150.00	9-Oct-24	LOCKED			

Current Payment Arrangements								
Account	Name	Address	Balance	Deposit	Most Recent Pymt.	Date Last Paid		
251241			\$10,847.00	\$150.00	\$615.00	9-Oct-24		
80868			\$8,953.06	\$351.00	\$200.00	8-Oct-24		
248504			\$5,448.00	\$100.00	\$351.00	12-Sep-24		
248022			\$3,605.10	\$100.00	\$374.53	8-Oct-24		
245598			\$2,514.80	\$100.00	\$171.00	4-Oct-24		
240728			\$2,251.79	\$100.00	\$210.18	13-Sep-24		
248323			\$2,050.74	\$100.00	\$351.00	4-Sep-24		
250707			\$1,803.06	\$100.00	\$200.10	10-Sep-24		
244140			\$1,530.65	\$100.00	\$171.00	9-Oct-24		
239717			\$1,330.00	\$100.00	\$200.00	30-Sep-24		
241866			\$1,000.00	\$100.00	\$242.78	20-Sep-24		

Fort Bend FWSD No. 1 30 Day Delinquent Report October-24

233089

080537

61 62

Updated as of	ed as of October 7, 2024					
						Most
ACCOUNT NO.	CUSTOMER NAME	SERVICE ADDRESS	DEPOSIT	ARREARS	BALANCE	Recent
						Paymen
122558			75.00	404.41	818.13	100.
081128			176.00	560.94	733.17	200.
080533			100.00	245.41	478.07	176.
081515			326.00	186.11	382.13	171.
174312			150.00	180.71	381.34	303.

Payment Date

						,	
1	122558		75.00	404.41	818.13	100.00	09/13/24
2	081128		176.00	560.94	733.17	200.00	10/03/24
3	080533		100.00	245 41	478.07	176.09	09/13/24
4	001515		226.00	106 11	202.12	171.26	00/17/24
4	474040		320.00	100.11	302.13	171.20	09/11/24
5	174312		150.00	180.71	381.34	303.97	09/30/24
6	081367		175.00	119.62	377.33	42.78	08/15/24
7	080462		100.00	202.88	372.80	207.62	09/12/24
8	080595		1,000.00	209.25	355.76	272.92	08/15/24
9	131690		201.00	150.31	353.08	239.99	09/17/24
10	081126		176.00	156 72	351 59	100.00	09/13/24
11	205565		200.00	146.01	240.59	165.00	00/10/24
	205565		200.00	140.01	349.50	105.02	09/19/24
12	080614		1.00	153.45	324.12	120.74	09/17/24
13	081117		1.00	156.79	322.74	119.68	09/18/24
14	081286		101.00	158.13	312.89	104.00	09/20/24
15	081030		101.00	138.95	306.80	300.65	07/25/24
16	158621		300.00	118 55	299.36	150.00	09/13/24
17	153608		100.00	118.03	206.00	08.60	00/18/24
10	153606		FE0.00	156.00	200.40	160.00	00/10/24
10	153000		550.00	150.03	295.70	160.00	09/19/24
19	080647		1.00	117.44	294.20	150.00	08/21/24
20	081320		175.00	42.78	293.24	112.16	08/12/24
21	081848		101.00	115.34	290.85	131.12	09/14/24
22	122845		150.00	148.78	285.97	111.78	09/17/24
23	163575		100.00	126 60	283 79	100.00	09/20/24
24	080582		76.00	127.88	283 55	116 31	08/17/2/
24	000302		70.00	127.00	203.33	110.31	00/17/24
25	214230		150.00	132.06	283.01	113.42	08/13/24
26	135063		350.00	128.78	282.61	96.78	09/18/24
27	081560		526.00	95.68	277.05	125.00	09/09/24
28	080528		75.00	140.44	276.81	102.38	09/19/24
29	120726		201.00	85.00	266.80	128.05	09/13/24
30	123524		101.00	87.38	263 74	133 84	08/12/24
21	080604		75.00	117 12	262.33	80.53	00/12/24
	000004		75.00	117.12	202.33	09.00	09/12/24
32	080652		151.00	110.01	260.30	104.14	09/04/24
33	212372		150.00	105.74	259.19	74.53	07/20/24
34	080654		101.00	126.05	259.08	54.53	09/20/24
35	202255		200.00	116.81	249.23	140.67	08/20/24
36	081148		1.00	104.10	242.93	113.42	08/13/24
37	081072		601.00	150.02	240.66	156 23	08/15/24
38	215751		100.00	106.02	230.00	83.60	00/13/2/
20	091101		1.00	100.30	239.33	104.10	09/00/24
39	001194		1.00	122.74	239.47	104.10	06/09/24
40	214596		100.00	104.83	237.86	100.00	09/14/24
41	121888		175.00	90.56	237.36	120.00	09/05/24
42	121873		350.00	100.68	237.11	61.56	09/12/24
43	080828		175.00	100.80	236.53	113.42	09/09/24
44	154760		100.00	112.89	235.19	68.74	08/15/24
45	101188		100.00	115 21	232.90	114 00	08/20/24
46	080513		1.00	00.88	230.61	110.00	08/20/24
40	000010		1.00	99.00	230.01	110.00	00/29/24
47	132482		175.00	109.67	228.81	189.34	08/13/24
48	134675		200.00	106.68	227.45	150.00	09/13/24
49	231959		150.00	105.15	227.11	80.46	09/11/24
50	080680		351.00	110.19	226.99	93.06	09/13/24
51	080805		825.00	105.74	225.98	184.20	08/13/24
52	081464		375.00	95.28	224 38	288.09	08/14/24
52	206015		200.00	100 59	222 54	100.00	00/10/24
55	004704		200.00	100.00	222.04	100.00	09/19/24
54	001/21		101.00	124.00	220.87	189.76	00/12/24
55	080744		341.45	106.96	219.85	110.25	09/17/24
56	080686		1.00	26.02	215.51	130.00	09/19/24
57	080492		1.00	83.60	212.70	94.67	08/11/24
58	080483		75.00	67.52	211.62	120.00	09/16/24
59	081056		1.00	94.67	210.31	210.56	08/21/24
60	080611		1.00	75.25	209.39	100.00	09/19/24
	000011			10.20	_00.00		00,10,24

0.00

76.00

105.44

87.38

208.17

207.82

189.76

87.38

08/14/24

08/12/24

Fort Bend FWSD No. 1 30 Day Delinquent Report October-24

Updated as of October 7, 2024

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							Most	Deumeent
	ACCOUNT NO.	CUSTOMER NAME	SERVICE ADDRESS	DEPOSIT	ARREARS	BALANCE	Recent	Payment
							Payment	Date
63	188/77			500.00	03 50	207 30	80.82	08/22/24
0.0	100417			000.00	33.30	201.50	405.02	00/22/24
64	080445			200.00	90.11	204.54	105.10	09/25/24
65	080624			101.00	78.06	203.25	96.12	09/13/24
66	147111			75.00	94.67	202.74	102.50	08/10/24
67	081469			1.00	115.34	201.29	78.06	08/13/24
68	080501			101.00	97.89	200.80	83.60	09/09/24
69	155797			400.00	96.23	100 14	75.00	09/19/24
70	091622			1.00	07.20	100.14	202.46	00/10/24
70	001023			1.00	07.30	196.50	303.40	00/19/24
71	081566			175.00	87.38	198.50	158.12	08/05/24
72	081414			625.00	62.06	198.43	100.00	09/17/24
73	081489			75.00	78.06	197.57	78.06	08/06/24
74	081652			1.00	80.37	192.35	100.00	09/15/24
75	081373			284 53	85.02	189 70	119.63	09/16/24
76	080037			101.00	80.84	186.00	50.10	07/13/24
70	1000937			101.00	70.00	100.90	100.00	07/13/24
11	164201			250.00	78.29	184.84	100.00	09/18/24
78	106108			101.00	83.60	181.49	74.53	08/13/24
79	248056			200.00	83.60	181.49	634.16	07/29/24
80	081607			176.00	74.53	180.58	182.23	08/11/24
81	081818			276.00	88.65	179.12	35 46	10/02/24
82	080036			76.00	78.06	178.03	50.10	08/13/24
02	000330			10.00	70.00	170.33	30.10	00/10/24
83	099887			1.00	11.98	178.84	75.69	08/19/24
84	081358			350.00	68.74	177.99	47.06	08/22/24
85	148630			100.00	87.91	175.46	129.29	09/20/24
86	215223			100.00	83.60	172.42	147.00	07/22/24
87	207469			200.00	74 53	171.51	83 60	08/13/24
88	150261			100.00	65.46	170.61	148 16	08/13/24
00	100201			500.00	07.20	170.01	161.00	00/10/24
09	121322			500.00	07.30	170.34	101.00	00/12/24
90	236936			100.00	78.06	169.61	51.50	08/19/24
91	151465			100.00	78.06	169.61	169.61	08/12/24
92	081033			76.00	76.40	167.80	70.82	09/18/24
93	120723			76.00	56.58	167.50	55.82	09/25/24
94	081800			75.00	78 70	164 74	57 78	09/19/24
05	125004			675.00	74.53	162.44	443.00	07/31/24
90	123094			073.00	74.33	102.44	443.00	07/31/24
96	080673			1.00	08.74	159.35	59.42	08/13/24
97	239722			100.00	68.74	159.35	138.83	08/16/24
98	080877			717.00	71.10	157.20	66.00	09/19/24
99	081923			250.00	32.62	156.90	200.00	05/30/24
100	081503			275.00	48.26	155.47	139.19	12/12/23
101	212364			200.00	67 19	153 71	154 99	08/14/24
102	236077			100.00	50.15	152.00	01.00	00/13/24
102	230977			100.00	39.13	152.99	91.00	09/13/24
103	081013			1.00	05.40	152.47	05.40	08/12/24
104	125091			450.00	65.46	150.97	96.98	08/26/24
105	194789			500.00	54.01	150.34	55.46	10/07/24
106	132658			75.00	60.64	147.16	163.10	08/16/24
107	157298			101.00	60.64	147.16	65.46	08/13/24
108	081582			936.00	47 79	144 85	50 10	09/30/24
100	081301			425.00	85.87	1// 69	107.80	00/06/24
140	001591			420.00	00.07	144.00	107.00	09/14/04
110	081583			100.00	63.70	144.06	100.56	08/14/24
111	081001			1.00	60.64	143.66	111.40	08/22/24
112	081617			76.00	54.01	143.02	50.46	09/23/24
113	154463			200.00	60.64	142.34	65.46	08/13/24
114	080823			101.00	35.53	141.57	100.00	09/21/24
115	220420			100.00	59 42	139 78	50 10	08/09/24
116	081025			1.00	50.42	120.70	115.20	08/00/24
110	001920			1.00	59.42	139.70	113.20	00/09/24
117	080640			1.00	59.42	139.78	141.79	08/12/24
118	081595			1.00	47.16	132.34	85.00	08/22/24
119	081081			1.00	55.82	132.22	135.17	08/04/24
120	081594			101.00	47.06	131.44	63.78	09/19/24
121	199587			200.00	42 78	130 80	141 50	08/06/24
122	196674			150.00	59.42	130.46	67 11	08/30/24
100	080770			0.00	50.42	120 52	1/2 16	08/12/24
120	000772			0.00	50.10	129.00	143.10	00/12/24
124	080706			1.00	50.10	121.20	51,001	08/14/24

Fort Bend FWSD No. 1 30 Day Delinquent Report October-24

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231061

081697

081772

081510

090938

	Updated as of October 7, 2024				159			
	ACCOUNT NO.	CUSTOMER NAME	SERVICE ADDRESS	DEPOSIT	ARREARS	BALANCE	Most Recent Payment	Payment Date
125	081169			1.00	51.00	126.92	46.18	08/13/24
126	080820			101.00	59.42	123.14	132.16	08/16/24
127	120714			301.00	35.46	122.75	96.79	08/15/24
128	081087			101.00	51.00	122.10	136.28	08/12/24
129	249406			150.00	68.74	121.25	21.00	08/10/24
130	081222			101.00	54.38	117.17	112.16	08/14/24
131	081533			1.00	42.78	112.16	50.10	08/08/24
132	080696			101.00	42.78	112.16	93.24	08/08/24
133	080467			75.00	33.17	110.91	255.00	09/08/23
134	164714			100.00	47.06	109.12	85.56	08/14/24
135	192988			100.00	39.01	108.02	35.46	09/17/24
136	080685			1.00	50.10	105.57	99.34	08/16/24
137	124776			100.00	42.78	104.84	35.46	08/07/24
138	146495			250.00	42.78	104.84	42.78	08/08/24
139	081269			1.00	42.78	104.84	115.56	08/08/24
140	080728			1.00	42.78	104.84	100.56	08/12/24
141	081440			75.00	40.00	101.78	41.79	08/20/24
142	241408			150.00	42.78	97.52	154.48	08/12/24
143	176947			100.00	42.78	97.52	39.01	08/19/24
144	155798			200.00	35.46	96.79	35.46	08/13/24
145	081771			76.00	35.46	89.47	76.28	08/12/24
146	081889			151.00	35.46	89.47	81.10	08/12/24
147	081528			76.00	35.30	89.29	23.00	08/20/24
148	199217			400.00	29.63	89.00	60.01	09/20/24
149	081425			175.00	35.46	85.97	109.47	08/19/24
150	081349			75.00	35.46	84.65	81.10	08/11/24
151	080687			101.00	35.46	84.65	94.88	07/25/24
152	081725			1.00	35.46	81.15	104.16	08/23/24
153	081713			1.00	30.64	79.34	25.82	08/13/24
154	081836			101.00	30.64	79.34	71.46	08/07/24

200.00

76.00

75.00

75.00

1.00

25.82

25.82

25.82

25.82

25.82

26,024.98 13,959.82 31,567.50 18,559.85

74.04

69.22

69.22

69.22

69.22

333.52

25.82

61.82

61.82

28.40

07/30/24

08/13/24

08/12/24

08/13/24

08/22/24

FWSD#1 Daily Production Report

Day	Well Reads @ WP 1	Daily Flow	Well Reads @ WP 2	Daily Flow
9/1/2024	92576	0	145599	241
9/2/2024	92576	0	145840	539
9/3/2024	92576	0	146379	252
9/4/2024	92576	0	146631	375
9/5/2024	92576	0	147006	463
9/6/2024	92576	0	147469	426
9/7/2024	92576	0	147895	338
9/8/2024	92576	0	148233	528
9/9/2024	92576	0	148761	329
9/10/2024	92576	0	149090	364
9/11/2024	92576	0	149454	508
9/12/2024	92576	0	149962	393
9/13/2024	92576	0	150355	311
9/14/2024	92576	0	150666	359
9/15/2024	92576	0	151025	437
9/16/2024	92576	0	151462	343
9/17/2024	92576	0	151805	408
9/18/2024	92576	0	152213	336
9/19/2024	92576	0	152549	426
9/20/2024	92576	0	152975	335
9/21/2024	92576	0	153310	402
9/22/2024	92576	0	153712	380
9/23/2024	92576	0	154092	419
9/24/2024	92576	0	154511	375
9/25/2024	92576	0	154886	415
9/26/2024	92576	0	155301	387
9/27/2024	92576	0	155688	369
9/28/2024	92576	0	156057	437
9/29/2024	92576	0	156494	366
9/30/2024	92576	0	156860	416

Day	COA Sewer Reads	Daily Flow (in GPD)
9/1/2024	37788	123,000
9/2/2024	37911	114,000
9/3/2024	38025	123,000
9/4/2024	38148	119,000
9/5/2024	38267	109,000
9/6/2024	38376	116,000
9/7/2024	38492	113,000
9/8/2024	38605	108,000
9/9/2024	38713	112,000
9/10/2024	38825	106,000
9/11/2024	38931	111,000
9/12/2024	39042	108,000
9/13/2024	39150	112,000
9/14/2024	39262	124,000
9/15/2024	39386	112,000
9/16/2024	39498	114,000
9/17/2024	39612	111,000
9/18/2024	39723	105,000
9/19/2024	39828	122,000
9/20/2024	39950	122,000
9/21/2024	40072	132,000
9/22/2024	40204	110,000
9/23/2024	40314	109,000
9/24/2024	40423	105,000
9/25/2024	40528	101,000
9/26/2024	40629	105,000
9/27/2024	40734	109,000
9/28/2024	40843	118,000
9/29/2024	40961	104,000
9/30/2024	41065	101,000
		112,600
% based on alloted capac	ity 350,000 gpd	32%

2024 COA Sewer Meter Reads

MINUTES OF THE MEETING OF FORT BEND COUNTY FRESH WATER SUPPLY DISTRICT NO. 1

September 19, 2024

STATE OF TEXAS

COUNTY OF FORT BEND

The Board of Supervisors (the "Board") of Fort Bend County Fresh Water Supply District No. 1 of Fort Bend County, Texas (the "District"), met in regular session, open to the public, at 6:00 p.m. on Thursday, September 19, 2024, at 4521 F.M. 521 North, Fresno, Fort Bend County, Texas 77545, a designated meeting place inside the boundaries of the District, and the roll was called of the members of the Board, to wit:

Paul Hamilton Rosa Linda Medina Calvin Casher Rodrigo Carreon Erasto Vallejo President Vice-President Secretary Assistant Secretary Assistant Secretary

All members of the Board were present, thus constituting a quorum.

Also present at the meeting were: Cindy Grimes with Municipal Accounts & Consulting, LP, the District's Bookkeeper ("MAC"); David Dybala with Jacobs Engineering Group, Inc. ("Jacobs"), the District's Engineer; Robert Cardenas with Inframark, LLC ("Inframark"), the District's Operator; and Christopher Cunningham and Michael R. Willis of Sanford Kuhl Hagan Kugle Parker Kahn LLP ("SK Law"), the District's Attorney.

The meeting was called to order at 10:33 a.m. and the following business was transacted.

1. HEAR FROM PUBLIC (MATTERS ON THE AGENDA)

At this time, the Board opened the meeting to comments from the public.

2. CONDUCT PUBLIC HEARING ON PROPOSED 2024 TAX LEVY

The Board noted that notice of the public hearing and the tax rate was published pursuant to Chapter 49, Texas Water Code, as required, and the public hearing was opened at 6:05 p.m. The Board noted that no members of the public present wished to discuss the tax rate. The Board closed the public hearing at 6:07 p.m.

3. ADOPT ORDER SETTING TAX RATE AND LEVYING TAX FOR 2024

The Board then considered adoption of the proposed Order Setting Tax Rate and Levying Tax for 2024. Having conducted the public hearing as required by law and publishing notice thereof, the Board deemed it appropriate to proceed with setting the 2024 tax rate.

Upon a motion made by Supervisor Casher, seconded by Supervisor Vallejo, and after full discussion, the Board voted unanimously to (1) set and levy (i) a debt service tax rate for 2024 in the amount

of \$0.50 per \$100 of assessed valuation, and (ii) an operation and maintenance tax of \$0.50 per \$100 of assessed valuation for a total tax rate of \$1.00 per \$100 of assessed valuation, and (2) adopt the Order Setting Tax Rate and Levying Tax for 2024, a copy of which is on file in the Official Records of the District.

4. AMENDED NOTICE TO SELLERS AND PURCHASERS

Consideration was then given to the proposed Amended Notice to Sellers and Purchasers, which notice sets forth the 2024 tax rate.

Upon a motion duly made by Supervisor Casher, seconded by Supervisor Vallejo, the Board voted unanimously to approve the Amended Notice to Sellers and Purchasers, a copy of which is on file in the Official Records of the District.

5. UPDATE ON SANITARY SEWER EASEMENTS ALONG TRAMMEL FRESNO ROAD

Mr. Willis then updated the Board on the pending sanitary sewer easements. Mr. Willis advised that McFarland PLLC was in the process of preparing condemnation petitions. Mr. Willis further advised making a counter offer concerning the property located at 1843 Trammel Fresno Road.

Upon motion duly made by Supervisor Casher, seconded by Supervisor Medina, the Board voted unanimously to make a counter offer on 1843 Trammel Fresno Road.

6. BOOKKEEPER'S REPORT AND TAX ASSESSOR/COLLECTOR'S REPORT

The Board then considered the Bookkeeper's Report presented by Ms. Grimes, a copy of which is on file in the official records of the District, and the invoices and checks presented for payment as follows:

A. Approval of Bills.

The Board reviewed the bills presented for payment, including the invoices discussed in more detail under the Engineer's Report.

B. <u>Review Investment Report.</u>

The Board reviewed the investment report.

C. Review Collateral Pledge Report.

The Board reviewed the Collateral Pledge report.

Ms. Grimes then presented the Tax Report from the Fort Bend County Tax Office, noting that the District's taxes are 92.08 percent collected for 2023.

Upon motion duly made by Supervisor Vallejo, seconded by Supervisor Medina, the Board voted unanimously (i) to approve the Bookkeeper's Report; (ii) to authorize the payment of the checks and invoices listed therein; and (3) to approve the Tax Report.

7. ENGINEER'S REPORT

(a) Report on status of projects:

i)Gateway Acres Subdivision Wastewater Plumbing Contract (199 properties within original

contract)

- Connection Update:
 - Approximately 45 properties connected to District's WW System (additional work still required on these properties)
 - 12 properties were removed from project due to properties not securing or properly maintaining water service or were not a single-family residential property
- Anticipate project being completed by the end of this year
- Request Board's approval of Invoices No. 1 and 2 from Terracon for material testing services for \$3,688.75 and \$5,110.63, respectively
- Multiple property issues presented to Inframark and DA to resolve and present to Board for resolution
- ii) City of Arcola WWTP Expansion Project (0.675 MGD to 0.95 MGD)
 - Project under construction and anticipated to be fully complete September 2024...once completed, the District will have 0.35 MGD of WWTP capacity (on paper and on ground)
 - Waiting for final invoices from CoA for payment
- iii) Fresno Ranchos Subdivision Wastewater Collection System
 - Project currently under design
- iv) Expansion of Teleview Terrace Subdivision Lift Station
 - Project currently under design...Engineering Study Report is complete and will be submitted to the TCEQ this month for review/approval
- v) Teal Gardens Development

- DA working on condemnation efforts to secure remaining utility easements for project...Developer needs approval of project from TCEQ, FBC, and City of Houston...once easements have been secured and applicable governmental agencies have approved plans, District will complete their review and approval of the on-site and off-site utility plans

vi) City of Arcola WWTP Expansion Project (0.95 MGD to 1.4 MGD)

- Project is currently under design...once completed, the District will have 0.8 MGD of WWTP capacity
- Per latest correspondence from CoA, construction documents should be completed, have full agency approval, and be under advertisement 1st Q of next year
- vii) Water Plant No. 2 Generator
 - District had requested to investigate the possibility of constructing a natural gas generator
 - Per communications with CenterPoint, there is an existing 8" gas line along Renfrow-Burford Road (south side of street)
 - Currently working to provide CenterPoint needed information (generator size in KW, total gas load in CFS, and required delivery pressure) so they can perform a pressure study to determine if they can provide services as is to our facility
- viii) Portable Diesel Generator for LS's and Double Walled Diesel Storage Tank
 - Inframark to provide update on a) portable generator with metal shed and concrete foundation with bollard and b) double walled diesel storage tank

(b) Authorize Engineer to Prepare Plans and Specifications for Water/Wastewater Projects

no action items

(c) Report on status of project funding and take necessary action related thereto.

- <u>Project One-Year Warranty Expiration Dates</u>
 - Gateway Acres Subdivision WW Collection System = 01/31/25
 - Fresno Ranchos Subdivision Lift Station and Forcemain = 01/30/25

- <u>2022 TCEQ Loan (\$10.45M)</u> – funds from the loan are needed to fund the completion of the CoA WWTP Expansion Project (0.675 MGD to 0.95 MGD)

- <u>FBC CDBG Funds</u>...will pursue funding source for future plumbing projects

(d) Projections for District Water and Wastewater Projects

- request Board approval to update information every January and July
- (e) Discuss Emergency Preparedness Plan and take any necessary action related thereto - review EPP in April each year to determine if any updates are required

(f) Status of Non-Residential Applications for Water Service -

Connected:	
4320 Doreen Avenue (Multi-Family Dwelling)	La Fresno Food Mart
293 Teakwood Avenue (Multi-Family Dwelling)	Lou's Back Porch
297 Teakwood Avenue (Multi-Family Dwelling)	LT No Limits
Church of God of Prophecy	Mustang Community Center
Dollar General	MVP Auto Parts (Domestic & FW)
Enriguez Tire Shop (East Palm)	Nalco Water (FW)
FBC Water Connection at Water Plant	New Quality Life Ministries (Church)
First Baptist Church of Fresno (Domestic & FW)	New Quality Life Ministries (Restaurant)
Fresno Fiesta	Papa Nick's BBQ Kitchen – Mobile Food Truck
Fresno Gym (3941 FM 521)	PMC International Tire Shop
Fresno Market – FM521 (Domestic & Irrigation)	Quality Paint and Body (Pecan Street)
Fresno Motor	Quality Personal Care
Fresno Mount Corinth Baptist Church	Richard Martini-Rental Livestock Pasture
Fresno Volunteer Fire Department	Robbins Nest for Children (Domestic & FW)
F&R Tax	Sosa Electric (Avenue C)
General Office Space (514 Pecan Street)	St. James Knanaya Church – Fire Tap
Gulf Coast LP Gas Company	St. James Banquet Hall – (Domestic & FW)
HEFCO Enterprises	St. Peters & St. Pauls Orthodox Church of
	Houston
Iglesia Bautista Del Calvario Church	Swingby#3 Gas Station (Domestic & Irrigation)
Iglesia Princepe De Paz Church	Teleview Terrace Subdivision Lift Station
Interconnect with City of Arcola	Tiny Toes Academy
Interconnect with FBCMUD23	Tire Shop at 1739A Trammel Fresno
	Valero Gas Station
	Welcome Market

Connections Pending:

Parks Fresno Food Market (FM521)

– District Operator to update regarding service to customer

Processing Application:

St Peter and Paul Church (Illinois St)

- application process started on 02/07/23...received new information from customer on 05/14/24 for review...customer currently receiving District water, but would like to add an additional building on property – Coordinating with DA with list of remaining items so DA can send letter to customer informing them that all must be successfully provided by or before end of this year or application will be considered expired

Lemark Investments (East Sycamore St)

- application process started on 10/12/23...received new information from customer last week for review

Duplex (1615 Avenue C)

- waiting for customer to provide plumbing info

*** Purolite investigating possibility of needing District water service for a potential new facility that would be constructed to the west of their existing facility

Status of Non-Residential Applications for Wastewater Service -

Connected:	
4320 Doreen Avenue (Multi-Family Dwelling)	General Office Space (514 Pecan Street)
293 Teakwood Avenue (Multi-Family Dwelling)	Mustang Comm Center (minus field bathrooms)
297 Teakwood Avenue (Multi-Family Dwelling)	New Quality Life Ministries (Church)
Church of God of Prophecy	New Quality Life Ministries (Restaurant)
First Baptist Church of Fresno	Sosa Electric (Avenue C)
Fresno Volunteer Fire Department	Quality Paint and Body (Pecan Street)

Connections Pending:

Parks Fresno Food Market (FM521)

– District Operator to update regarding service to customer

La Fresno Food Market (TFR)

- District Operator to update regarding service to customer...customer currently has District water service

Processing Application:

Fresno Fiesta (TFR) [previously known as Crossroad Market Store]

- Waiting for customer to provide plumbing info...customer already has District water service

Welcome Market (TFR)

- District Operator to provide update regarding illegal connection made by customer (connected to District's system without completing application process and paying applicable tap fee)

- Customer currently has District water service...customer recently submitted plumbing info for review

Duplex (1615 Avenue C)

- waiting for customer to provide plumbing info

(g) Potential Emergency Water Interconnect with BCMUD21/22

- BCMUD21/22 agreed to District only having to pay $\frac{1}{2}$ of the construction cost of the interconnect vault, with a NTE value of 75k...DA is handling completion of agreement between parties

- Submitted to Patrick Newton, Engineer (LJA) for BCMUD21/22, the District's thoughts regarding the potential emergency water interconnect between our Districts (location at end of East Sycamore Road)

a. Vault to be located at the District's eastern boundary line.

b. Work within the District to upsize the existing 8" waterline to a 12" waterline would consist of predominately trenchless construction (no open cutting driveways).

c. BCMUD21/22 to provide District Operator their water quality data and type of disinfection method used.

d. BCMUD21/22 to provide District information regarding capacities of their water production facilities.

e. BCMUD21/22 would be responsible for all costs associated with this emergency water interconnect project, except for $\frac{1}{2}$ of construction cost of interconnect vault, with a NTE value of 75k

f. BCMUD21/22 would be responsible for completing all efforts associated with this project (design, construction, permitting, agency approvals, etc...).

(h) Status of New CoA WP -

- a. CoA WP is in service and interconnect between the District and CoA is now functioning as an emergency water interconnect
- b. Status of District paying funds owed to CoA regarding take back of 625 connections worth of water service
- c. Status of rework of RFC into a standard emergency water interconnect agreement and a waste disposal agreement...per DA, efforts are underway regarding completion of these agreements and are anticipated to be completed by the end of this year

(i) Status of Current and Future WWTP Expansion Projects -

South Wastewater Service Area

- See Item A above for status of current projects
- CoA working on securing WWTP Discharge Permit for ultimate capacity of WWTP (4.6 MGD)...permit will also include an interim phase of 1.4 MGD...anticipate permit being secured with TCEQ early 2025
- Ultimate CoA WWTP Expansion Project for District (maximum capacity for District of 1.905 MGD, which is capable of serving 5,442 ESFCs) = District Attorney to document this matter with CoA
- Potentially can increase the District's connection capacity at CoA WWTP by conducting a re-rate study to lower the RFC value of 350 GPD/connection to a lessor value
- <u>Anticipated Timeline for Full Use of WW Connection Capacity (Current 1,000 ESFC</u> <u>Connection Capacity):</u>

Current Connections (Actual and Reserved) as of June 2024:

- \circ Active Residential Connections Per Inframark = 552
- \circ Vacant Residential Connections Per Inframark = 26
- o In-Process Residential Connections Per Inframark = 9
- Residential Connections in GA WW Plumbing Contract = 199
- Residential Connections in Teal Gardens Development = 107
- \circ Active Non-Residential Connections, in ESFCs = 19
- \circ In-Process Non-Residential Connections, in ESFCs = <u>11</u>

Total = 923

North Wastewater Service Area

- DA to provide update regarding securing land for District's north WWTP
- (j) Roadway Widening Projects Within District (which will require utility and service line relocations):
 - South Post Oak Boulevard Widening Project (from W Sycamore to Trammel Fresno Rd):
 - **Scope** Increased ROW width, with 2 lane road and additional lanes throughout sections, with roadside ditches

○Schedule –

- County is currently in process of a) clearing ROW and acquiring easements and b) updating drainage design
- Utility Relocations propose our relocation work to be included in their updated plan set
- Road Construction FBC to update

• Estimated Cost -

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

FM521 Roadway Widening Project (North of SH6):

- Ottility Relocations at Mustang Bayou Work to be completed at same time that Roadway Contractor is under construction in area of project...work will consist of open cut versus trenchless construction as originally planned...removal of ARV manhole has been completed
- Ottility Relocations from Willow St to Trammel Fresno Road Work was awarded to Tackle Construction for \$429,100.00 and TxDOT permit has been secured...relocation efforts are underway and anticipated to be completed September 2024
- oUtility Relocations from Pecan St to SH6 investigation still needs to be conducted
- •Roadway Project Updates Final roadway plans provided to District on 05/22/23...project let in April 2023...roadway construction underway with Granite Construction as Contractor...per Roadway Team, work within District to start along south bound lanes at the American Canal and Mustang Bayou, with the installation of the storm sewer first, at outfall first and then working outward, then with the installation of concrete pavement
- \circ Scope 4 lane, divided roadway with raised median, curb and gutter, with underground storm sewer lines, side swales, and sidewalk
- Schedule
 - Anticipate coordinating necessary water and wastewater utility relocations by 2024
 - Anticipate roadway widening project to be completed in 2026

$\circ \textbf{Estimated Cost-}$

Currently determining extent and cost for utility relocations...later will coordinate with Inframark and Roadway Team so solution and costs can be determined and presented to Board...NORA provided to District

FM521 Roadway Widening Project (South of SH6):

○ Scope – 4 lane, divided roadway with raised median, curb and gutter, and side path...proposed detention pond along west side of CoA WWTP and new WWTP entrance roadway...including a proposed overpass at the BNSF RR crossing

• Schedule –

- 30% Utility Coordination meeting was conducted in September 2021
- 60% Utility Coordination meeting was conducted in April 2022
- 90% Utility Coordination meeting was conducted in October 2023
- Anticipate 100% completed construction plans TBD
- Anticipate roadway widening project to start construction in 2026

\circ Estimated Cost –

- NORA provided to District
- Coordinating with Roadway Team so our relocations can be included in their construction plans, which they would design and their contractor construct...assistance would be provided by Jacobs and the District Operator throughout this process...requested that an agreement be provided to the District for this arrangement...currently this relocation effort would need to be paid for by the District, but still investigating the possibility that FBC or TxDOT possibly assist us financially

West Sycamore Road Widening Project (possibly sanitary sewer work):

• **Scope** – Proposed 100' ROW, with 4 lane, divided roadway with raised median, curb and gutter, with underground storm sewer lines, and sidewalk

○ Schedule –

- Received 95% complete roadway plans for review on August 11, 2022...requested updated plans, as drainage design is still being updated, prior to completing review
- Anticipate 100% complete roadway plans TBD
- Coordinating with Roadway Team to have utility relocations (consider new sanitary sewer) included within their construction plans so relocations can be done by their contractor
- Anticipate roadway widening project to start construction TBD

• Estimated Cost -

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

Evergreen Road Widening Project (California Rd to Mustang Bayou):

• **Scope** – Proposed 80' ROW, with 2-12' lanes, 6' shoulders, asphalt roadway, with roadside ditches

○ Schedule –

- Working on 30% complete roadway plans...no overall schedule provided yet
- Coordinating with Roadway Team to have utility relocations included within their construction plans so relocations can be done by their contractor

• Estimated Cost -

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

- Evergreen Road Widening Project (Mustang Bayou to FM521):

• **Scope** – Proposed 80' ROW, with 2-12' lanes, 6' shoulders, asphalt roadway, with roadside ditches

○ Schedule –

- Provided 70% complete roadway plans for review and comment...no overall schedule provided yet
- Coordinating with Roadway Team to have utility relocations included within their construction plans so relocations can be done by their contractor

• Estimated Cost -

 Per communications with FBC Commissioner, all relocation costs will be paid for by the County

West Sycamore Road and South Post Oak Boulevard Intersection:

- Scope Widening of intersection to accommodate roadway widening projects along West Sycamore Road and South Post Oak Boulevard...Project also includes roadway widening project along West Sycamore Road to the west of this intersection
- \circ Schedule TBD, but should occur prior to roadway widening projects to the east and north of this intersection
- Estimated Cost This project will involve the relocation of the District's waterline at this intersection...it has been communicated multiple times to the roadway team that it is the District's understanding that all costs associated with this relocation will be paid for by FBC...The District should be able to review

and approve these relocations and the Roadway Contractor should be coordinating all work with the District Operator

Other Road Widening Projects Within District (Lake Olympia Pkwy, California Road, Kentucky Road, Linden Street, Kansas St, 3rd Street...consider water and wastewater utility work) – FBC to provide update

Upon motion made by Supervisor Casher, seconded by Supervisor Vallejo, and after full discussion, the Board voted unanimously to approve the interconnect with BC MUD 21/22, subject to final attorney review of the agreement, and the Engineer's Report, as presented.

8. OPERATOR'S REPORT/TERMINATION OF SERVICE

Next the Board recognized Mr. Cardenas, who submitted to and reviewed with the Board the Operator's Report, a copy of which is on file in the official records of the District.

A. <u>Repairs to Water and Wastewater systems</u>

Mr. Cardenas reported substantial system repairs and maintenance as follows:

- Inframark installed a 4" sewer tap at 1200 Avenue A and 1505 Avenue D.
- Inframark installed a sewer tap and bored a new lateral tie in at 214 Cresent.
- Inframark installed a sewer tap at 4439 Tulip.
- Inframark completed an emergency long tap leak repair at 1436 Avenue A.
- Inframark completed a tap repair at 620 E. Sycamore.
- Well motor repair with rental motor totalled \$43,731.
- Inframark completed booster pump repairs at Water Plant 2.
- Inframark installed a 1" tap and meter at 1402 Avenue C.

Mr. Cardenas then updated the Board on the following:

- 1. <u>Smoke Testing</u>: Inframark is quoting smoke testing for the infiltration issue.
- 2. <u>Diesel Reserve Tank:</u> Mr. Cardenas is seeking quotes for a diesel reserve tank at Water Plant.
- 3. <u>Portable Generator:</u> Mr. Cardenas is seeking quotes for a portable generator for the District's lift stations.
- 4. <u>FM 521 Road Widening Relocation</u>: The Board authorized the relocation plan proposed by Texas Hot Taps at the October meeting for the estimated amount of \$70,956.36. Subsequently, the estimate was amended to \$53,233.70. This is in progress.

B. <u>Requests for Water Taps</u>

Mr. Cardenas did not report any requests at this time.

C. Delinquent Water Accounts and Service Terminations

Mr. Cardenas provided a confidential list of customers that received a delinquent letter by mail and are subject to disconnection of service.

Upon a motion duly made by Supervisor Casher, seconded by Supervisor Carreon, and after full discussion, the Board voted unanimously to approve the Operator's Report, the recommended write-offs, the repairs to the water and wastewater system, the leak adjustment requests, and the termination list.

9. ATTORNEY'S REPORT

The Board recognized Mr. Willis, who presented the Attorney's report as follows:

A. Approval of Minutes

The proposed minutes of the meetings held on August 15 and 20, 2024, were presented for approval.

Upon motion duly made by Supervisor Medina, seconded by Supervisor Vallejo, the Board voted unanimously to approve the minutes of August 15 and 20, 2024, as presented.

B. Regional Facilities Contract

The Board noted there was no action necessary in connection with the Regional Facilities Contract.

10. REGIONAL PLANT COMMITTEE REPORT

The Board then considered the Regional Plant Committee Report.

Upon a motion made by Supervisor Casher, seconded by Supervisor Carreon, and after full discussion, the Board voted unanimously to approve the Regional Plant Committee Report.

<u>11. HEAR FROM THE PUBLIC.</u>

The Board then opened the meeting to comments from the public.

There being no further business to come before the Board, upon a motion duly made and seconded, the Board voted unanimously to adjourn.

[THE REMAINDER OF THIS PAGE LEFT INTENTIONALLY BLANK.]

PASSED, ADOPTED, and APPROVED this _____.

Secretary

[SEAL]

Fort Bend County Freshwater Supply District 1 Regional Facilities Wastewater Treatment Plant Summary October 17, 2024

The treatment plant operation information was received by Paul Hamilton from Municipal Operations & Consultants.

WWTP Operations Report:

During the period of July 31, 2024 through August 31, 2024, per the attached MOC monthly report, the WWTP was operating at 44% of the 0.675 MGD permit capacity and was operating within permit parameters. Arcola had 27% inflow and Freshwater-1 had 17% inflow. During the same period as above, the plant average daily flow was 292,323 gallons of which Freshwater 1 was 112,665 gallons. The plant total flow for the month was 3,492,000 gallons. The report reflected total rainfall was 1.45 inches for the month.

WWTP Discharge Monitoring Report:

The August 2024 Discharge Monitoring Report (DMR) did not reflect any parameter exceedances. A copy of the DMR is attached.

WWTP Operations Expenses

The WWTP total expenses for June 27, 2024 through September 18, 2024 was \$ 7,091.22. \$1,000 for MOC monthly services plus \$ 6,091.22 for ancillary supplies and activities. See the various expenses on pages 8 through 13 of the Bookkeepers Invoice Report.

Paul Hamilton

FBFWSD1 Supervisor & Treatment Plant Liaison

Municipal Operations & Consulting, Inc.

MONTHLY OPERATIONS REPORT FOR THE CITY OF ARCOLA

September, 2024

Wa	ter Connectio	ons			Se	ewer Connectio	ns		
Apts			96		Apts			46	
Builder			83		Builder			83	
Commercial			29		Commercial			29	
District Meter			3		Commercial Vacant			4	
Irrigation			5	N/C	District Meter			3	
No Bill			2		Commercial sewer o	nlv		12	
Residential	idential 678 Commercial sever vacant only						6		
Residential wa	ater only		5		Residential			678	
Tomp Motor	ater only		2	N/C	Residential vacant			14	
Vecent with C	oncumption		2	N/C	Residential vacant			207	
Vacant with C	onsumption		14		Residential sewer on	lly hyvecent		207	
Vacant			14		Residential sewer on	ny vacant		80	
New Taps paid	a by COA resi	dents	0					2	
Not installed a	as of today 9/2	20/24			vacant with consum		0		
			_		New taps paid by Dr.	Horton		1	
New taps paid	by Dr. Horton	n	7		Not installed as of to	day 9/20/24			
Not installed a	as of today 9/2	20/24			FS #1 & COA AGREE	MENT SEWER	ONLY	110	
					FS #1 SEWER CONN	ECTIONS TO W	WTP	578	
TOTAL WATE	R CONNECTIO	ONS	917		TOTAL SEWER CON	NECTION COUI	NT:	1865	
N/C = not cou	nted								
BILLING PERIOD: 08/19/24 - 09/20/24 Sep. Delinquent Accounts for Arcola									
FWSD 1 - Prev	/ious Read	233.231.000			Water & Sewer Accou	nts - 90			
Read Date: 10	/20/23	233 231 000			Sewer Only Accounts	- 56			
Total Gallons	Pumped:	0			Sewer Plugged Accou	ints - 0			
Arcola Well #1	l	8 500 000			eener ragged rooted				
Water received	d from EB 1/1	0,000,000							
Water cupplic	d to ED 141	. 0							
	U 10 FB 141.	0							
Gallons Billed		8,184,000							
Leaks and Flu	sning	5,000							
Pumped vs. A	ccounted	96%							
Notes:									
	Penalty	Tap Fee	Sewer	Water	NFBWA	TCEQ	Misc.	Deposit	TOTAL
REVENUE:	\$2,885.07	\$0.00	\$38,131.82	\$41,432.73	\$26,252.84	\$0.00	\$5,420.59	\$8,515.62	\$122,638.67
WASTEWATE	R TREATMEN	IT PLANT							
T.C.E.Q. Perm	it Number:		TX0102385						
Permit expiration	on date:		March, 2029						
			,						
			August, 2024						Measured by:
Average daily f	low		202 323		Permitted Daily Flow			675.000	dal per dav
	101		252,020					10	lbe/day
Average Total	- Suspended So	lide	5.5		Pormitted T S S			15	mal
Average Total Suspended Solids 5.5 Permitted 1.S.S.					itrogon		2	mg/l	
	sina Nilioyen		0.10		Permitted Ammonia Nitrogen 3				
Average PH			1.2		Permitted PH 6.00 - 9.00 STD U				
Average Disso	ived Oxygen		5.7		Permitted Dissolved Oxygen 4.0 mg				mg/i
E. COli			1.00		Permitted E. coli 126.0 mpn/100 n				
I otal Rainfall			1.45"						
Average daily f	low - FS #1		112,665						
FS #1 Flow			17%						
Aroolo Flow			27%						

Sewer Treatment plant is currently operating at $\mathbf{43\%}$ of the permitted capacity

Sewer Treatment Plant/Lift Station - Notes

City of Arcola Sewage Treatment Plant

	Flow	Total Gallons					Bleach Total	%Solids	Sludge	Waste	Rainfall	Sample		Gallons from
Date	Reading	x1000	2hr Peak	CL₂ Res.	Mag. Res.	Final CL ₂	Used	SV - 30	Blanket	Time	(Inches)	Temp	Inflow From FS1	FS1
7/31/2024	291475		50	1.4	0.06	1.34	20			30	0	3	34107	#VALUE!
8/1/2024	291834	359	57	3.6	0.09	3.51	80	270	15	25	0	3	34242.3	135.3
8/2/2024	292295	461	76	3.7	0.08	3.62	100	260	12	20	0	3	34354.8	112.5
8/3/2024	292747	452	45	3.4	0.14	3.26	60				0	3.1	34463.5	108.7
8/4/2024	293149	402	40	3	0.12	2.88	60				0	3.1	34583.9	120.4
8/5/2024	293534	385	28	3.2	0.1	3.1	40	280	14	45	0	3.1	34707.9	124
8/6/2024	293814	280	50	3.6	0.12	3.48	70	260	12	30	0	3.1	34827.7	119.8
8/7/2024	294088	274	39	3.5	0.09	3.41	60	220	15	30	0	3.1	34938.9	111.2
8/8/2024	294304	216	38	3.4	0.11	3.29	80	200	12	30	0	3.1	35055.6	116.7
8/9/2024	294580	276	43	1.5	0.11	1.39	90	200	18	20	0	3.1	35154.3	98.7
8/10/2024	294808	228	48	4	0.12	3.88	0				0	3.1	35263.8	109.5
8/11/2024	295095	287	43	3.7	0.09	3.61	80				0	3.1	35395.7	131.9
8/12/2024	295402	307	53	4	0.12	3.88	100	300	8	20	0	3.1	35498.4	102.7
8/13/2024	295688	286	43	4	0.11	3.89	120	280	6	10	0	3.1	35624.4	126
8/14/2024	295939	251	35	3.8	0.21	3.59	100	230	4	20	0	3.2	35723.6	99.2
8/15/2024	296160	221	48	4	0.09	3.91	150	400	8	20	0	3.2	35829.6	106
8/16/2024	296453	293	53	3.9	0.11	3.79	100	300	6	10	0	3.2	35957.3	127.7
8/17/2024	296675	222	42	3.9	0.13	3.77	100			0	0	3.2	36040.4	83.1
8/18/2024	296976	301	24	3.8	0.15	3.65	100			0	0	3.2	36163.7	123.3
8/19/2024	297296	320	24	3.6	0.11	3.49	100			30	0	3.1	36300.4	136.7
8/20/2024	297517	221	38	3.9	0.1	3.8	130	300	11	25	0	3.1	36396.2	95.8
8/21/2024	297841	324	37	3	0.08	2.92	70	280	10	25	0	3.1	36524.7	128.5
8/22/2024	298054	213	47	3.9	0.09	3.81	100	240	8	20	0	3.1	36610.7	86
8/23/2024	298320	266	44	3.8	0.07	3.73	100	220	6	15	0	3.1	36731.1	120.4
8/24/2024	298561	241	37	3.9	0.08	3.82	140				0	3.1	36827.6	96.5
8/25/2024	298833	272	39	3.8	0.07	3.73	60				0	3.2	36931.8	104.2
8/26/2024	299102	269	41	3.6	0.09	3.51	70	380	8	25	0	3.2	37038.5	106.7
8/27/2024	299465	363	30	2.8	0.07	2.73	50	270	6	20	0.35	3.2	37188	149.5
8/28/2024	299693	228	26	3	0.1	2.9	50				0	3.2	37285.5	97.5
8/29/2024	299985	292	20	2.8	0.07	2.73	50		6	20	0.35	3.2	37413.8	128.3
8/30/2024	300268	283	38	3.8	0.06	3.74	0	360	8	15	0.25	3.2	37507.2	93.4
8/31/2024	300537	269	49	3.8	0.04	3.76	110			0	0.5	3.2	37599.6	92.4
		Permit	Monthly Data				4.00				Takalol	0500	Total Flow FS1	3,492,600
Total Flow Gallons		675 000	9,062,000	420/			1.39			То	Total CL ₂ : 2520			
Daily Avgerage		0/0,000	292,323 461 000	43% 8/2/2021		Wax. 012	2.91			10		81	Average Daily FS1	112,665
2 Hour Peak in GPM		1389	792	<u>57</u> %						T	otal Rainfall:	1.45	Billing Ratio	38.54%
Supervising Operator:			Ro	bland Leal				Superviso	or Signatur	(
Supervisor License #:			WW	0061943 (B)				Date:						

August-24

DMR Copy of Record

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk for further guidance. Please note that EPA may contact you after you submit this report for more information.

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations 40 CFR 122.41(I)(4)(i). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 2 hours per outfall. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit																																																						
Permit	#:	TX0102385				P	Permittee:		ARCOLA, C	ARCOLA, CITY OF				Facility:	Facility: C			CITY OF ARCOLA WWTP																																				
Major:		No				Р	Permittee Address:		13222 HWY ARCOLA, T	13222 HWY 6 ARCOLA, TX 77583			Facility L	Facility Location:		5925 FM 521 ARCOLA, TX 77583																																						
Permitt	ed Feature:	001 External Outfal	II			C	ischarge:			001-A DOMESTIC	C FACILIT	'Y - 001																																										
Report	Dates & Status																																																					
Monito	Ionitoring Period: From 08/01/24 to 08/31/24			D	MR Due D	Date:		09/20/24					Status:			NetDMR Va	lidated																																					
Consid	erations for Form Completion					•									'																																							
INTERI	M PHASE EFFECTIVE UPON THE	DATE OF ISSU	JANCE AND	LASTIN	G THROUGH	THE CON	IPLETION	OF EXPANSION	TO THE 0.	.95 MGD FACILI	TY.																																											
Princip	al Executive Officer																																																					
First Na	ame:					Т	itle:								Telephor	ne:																																						
Last Na	ime:																																																					
No Data	a Indicator (NODI)					I																																																
Form N																																																						
	Parameter	Monito	oring Location	Season #	Param. NODI			Quai	ntity or Load	ing					Quality or Con	centration			# of Ex	. Frequency of Analysis	Sample Type																																	
Code	Name		0				Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	3 Value 3	Units																																				
						Sample						=	5.7					19 - mg/L	_	01/07 - Weekly	GR - GRAB																																	
00300	Oxygen, dissolved [DO]	1 - Effl	luent Gross	0				Permit Keq.						>=						19 - mg/L	0	01/07 - Weekiy	GR - GRAB																															
						value NODI															0.																																	
						Sample Permit Reg.						=	7.2 6.0 MINIMUM			=	7.5 9.0 MAXIMUM	12 - SU 12 - SU	_	02/30 - Twice Per Month 02/30 - Twice Per Month	GR - GRAB GR - GRAB																																	
00400	рН	1 - Effi	luent Gross	0	\	Value NODI													0																																			
						Sample	_	14.0			26 - lb/d			_	5.5	_	7.6	19 - mg/l		01/07 - Weekly	CP - COMPOS																																	
00530	Solids, total suspended	1 ₋ Effl	luont Gross	0		Permit Req.	- <=	84.0 DAILY AV			26 - lb/d			<=	15.0 DAILY AV	<=	40.0 DAILY MX	19 - mg/L	0	01/07 - Weekly	CP - COMPOS																																	
00000	oonus, total suspended	1 - Em	dent 01033	0		1																							,					-				-		Value NODI													0	
						Sample	=	0.405			26 - lb/d			=	0.16	=	0.3	19 - mg/L		01/07 - Weekly	CP - COMPOS																																	
00610	Nitrogen, ammonia total [as N]	1 - Effl	luent Gross	0		Permit Req.	<=	17.0 DAILY AV			26 - Ib/d			<=	3.0 DAILY AV	<=	10.0 DAILY MX	19 - mg/L	0	01/07 - Weekly	CP - COMPOS																																	
						Value NODI																																																
						Sample	=	0.292323	= ().461	03 - MGD									99/99 - Continuous	TM - TOTALZ																																	
50050	Flow, in conduit or thru treatment p	olant 1 - Effl	luent Gross	0		Permit Req.	<=	0.675 DAILY AV	F	Req Mon DAILY MX	03 - MGD								0	99/99 - Continuous	TM - TOTALZ																																	
						Value NODI																																																
						Sample						=	1.39			=	3.91	19 - mg/L	_	01/01 - Daily	GR - GRAB																																	
50060	Chlorine, total residual	1 - Effl	luent Gross	0		Permit Req.						>=	1.0 MO MIN			<=	4.0 MO MAX	19 - mg/L	0	01/01 - Daily	GR - GRAB																																	
						Value NODI																																																
						Sample								=	1.0	=	1.0	30 - MPN/100mL		02/30 - Twice Per Month	GR - GRAB																																	
51040	E. coli	1 - Effl	luent Gross	0		Permit Req.								<=	126.0 DAILY AV	<=	399.0 DAILY MX	30 - MPN/100ML	0	02/30 - Twice Per Month	GR - GRAB																																	
						value NODI																																																
						Sample Permit Reg	=	14.0 Reg Mon DAll Y AV			26 - lb/d			=	5.5 Reg Mon DAll Y AV	-	7.16 Reg Mon DAILY MX	19 - mg/L	_	01/07 - Weekly	CP - COMPOS																																	
70295	Solids, total dissolved	1 - Effl	luent Gross	0		Value NODI					20 10/0				Nor BALLT AV			.0 mg/L	0	chor trookly	0011100																																	
						Sampla	_	6.48			26 - lb/d				2.52	_	3.5	19 - mg/l		01/07 - Weekly																																		
00000	BOD corbonaccio 15 day 20 01	4 54	luont Grace	0		Permit Reg.	- <=	56.0 DAILY AV			26 - lb/d			<=	10.0 DAILY AV	= <=	25.0 DAILY MX	19 - mg/L	0	01/07 - Weekly	CP - COMPOS																																	
00002	Col, carbonaceous [5 day, 20 C]	I - EIII	IUCHI GIUSS	0		Value NODI													U																																			

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.



CITY OF ARCOLA BOOKKEEPER INVOICE LOG

SEPTEMBER 2024

INVOICE DATE	INVOICE #	VENDOR	SERVICE/MDSE	USED AT	INVOICE TOTAL
5/21/2024	15730	Hydro Clear Services	Repairs/Maintenance	District	\$2,140.00
8/2/2024	46365	Chlorinator Maintenance	Repairs/Maintenance	SP	\$566.60
8/6/2024	44174	Accurate Meter & Backflow, LLC	Repairs/Maintenance	District	\$395.00
8/13/2024	32052	STP Services	Repairs/Maintenance	WP	\$350.00
8/23/2024	253388	BMI-Biosolids Management	Liquid Haul	District	\$6,435.00
8/28/2024	3281	Enviro Services, LLC	Repairs/Maintenance	District	\$800.00
8/29/2024	6850686	Hawkins, Inc.	Chemicals	SP	\$4,048.88
8/29/2024	89632	Magna Flow Environmental, Inc.	Dewatering	SP	\$1,858.92
8/29/2024	92349	Water Utility Services INC	Lab Fees	District	\$800.00
8/29/2024	92389	Water Utility Services INC	Lab Fees	District	\$140.00
8/31/2024	90175	Magna Flow Environmental, Inc.	Repairs/Maintenance	LS	\$4,299.75
8/31/2024	DE05007271-24	PVS DX, Inc	Chemical Rentals	WP	\$45.00
9/16/2024	057016881-24	PVS DX, Inc	Chemicals	WP	\$586.68
10/1/2024	IN-15910	Municipal Operations & Consulting, Inc.	Monthly Operations	District	\$62,978.79





Hydro Clear Services, LLC 350 Neidigk Sawmill Magnolia, TX 77354 281-255-2575 accounting@hydroclearservices.com



Date	Invoice #
5/21/2024	15730

Bill	То
------	----

Municipal Operations & Consulting Inc. 20141 Schiel Rd. Cypress, TX 77433

_			Terms		
	P.O. #		W.	O. #	
	111856				

Item	Description	Quantity	Ra	ite	Amount
Item Camera Van Vactor Hourly Disposal	City of Arcola Manor Ave Jetted 58' of sewer line, Vacuumed sand and sewer water Camera Van Hours Vactor Hours with crew Disposal Gallons	Quantity 4 200	Ra	180.00 325.00 0.60	Amount 720.00 1,300.00 120.00
					-

Total \$2,140.00

CHLORINATOR MAINT.CO.,INC.

P. O. Box 1313 PASADENA, TEXAS 77501 phone fax

QTY

M 20 Ac Cy

INVOICE DATE INVOICE

e (713) 472-1201				BATE	INVOICE #
(713) 472-7717				8/2/2024	46365
BILL TO			SHIP TO		
unicipal Operations Co. 141 Schiel Road ecounts Payable press, Texas 77433			Arcola WWTP		
P.O. NO.	TERMS	SHIP VIA	PLUS TAX	TAX EXEMPT	TAXES DIRECT
116844	Net 30	Our service		yes	DIVLO DIVLOT
ITEM		DESC	RIPTION	PRICE	AMOUNT
	Not pu	umping CL2		TRICE	AMOUNT
Calibration	Calibr	ate flowmeter & cha	art recorder		
Labor & milea 1 pump tubes	PROR Pump Total Tax Ex Thanks	ATED tubes for Blue Whit 566.60 cempt s for the Order	te Pump A2 SNEE	486.60 80.00	486.60 80.00





Invoice

Date	Invoice #
8/6/2024	44174

Customer		Job Location		
Municipal Operations C/O City of Arcola PO Box 1689 Spring, Texas 77383-	s & Consulting 1689	CITY OF ARCOL 13246.5 SW HWY	A ′ 6 S #B	
		Customer #	Terms	Our Order #
		PO116870	Net 30	48146
QUANTITY	DESCRIPTION	U/M	RATE	AMOUNT
DI EASE NOTE				
			Total	\$395.00
			Payments/Cre	dits \$0.00
			Balance D	ue \$395.00



STP SERVICES 10029 Market Street Houston, TX 77029 713-8825278 stpservices@aol.com Invoice

Date	3	08/13/24	
Invo	ice No.	32052	
P.O.		116891	
Loca	tion	WP	

14. m. Mar.

Bill To Arcola

C/O Municipal Operations & Con 20141 Schiel Rd Cypress, TX 77433 08/13/24

Description Job done 8/3/24	1	Quan	tity	Price	Amount
Well tripping evert three day adjust parameters to preven tripping	s, check soft s t nuissance	start,		350.00 Schiel Rd	350.00 08/13/24
Job		:, 23 7		Price	Annount
				Schiel Rd	08/13/28
Job				lence.	Amonio
				Schiel Rd	08713724
Regulated by the Texas Department P.O. Box 12157 Austin, TX 78711 Phone Number 1–800–803–9202, (of Licensing and	Regulation		Total	\$350.00 Amaggr

BMI - Biosolids Management a division of K-3 Resources, LP 9458 FM 362 Road Brookshire, TX 77423

(281) 375-5778

BILL TO

Municipal Operations & Consulting City of Arcola 20141 Schiel Road Cypress, TX 77433

			P.O. NO.	TERMS	PLA	NT
				Net 30	CITY OF /	ARCOLA
Date	Manifest		Description	QTY/HRS	Rate	Amount
8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024 8/5/2024	345259 345260 345262 345360 345361 345362 345363 345664 345661 345662 345663	Liqı Liqı Liqı Liqı Liqı Liqı Liqı Liqı	uid Haul Jid Haul	6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 6,500 5,850	0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075 0.075	487.50 487.50 487.50 487.50 487.50 487.50 487.50 487.50 487.50 487.50 585.00
				Total		\$6,435.00
				Paymer	nts/Credits	\$0.00
				Balan	ce Due	\$6,435.00

Invoice

DATE	INVOICE NO.
8/23/2024	253388

SEND PAYMENT TO

Brookshire, TX 77423

K-3BMI

9458 FM 362



ESENVIROSERVICES@OUTLOOK.COM

Bill To:

Municipal Operations and Consulting 20141 Schiel Road Cypress, Tx 77433

Invoice #:	3281				
Date:	8/28/2024				
Payable within 30 days					

Ordered by:	Fernando
P.O. No.:	117941
District:	City of Arcola
Address:	307 Masterson

Date	Quantity	Descriptio	'n			Amount
8/20/2024	2.00 2.00 2.00	Routine sewer problems Repaired by Waterworks Jet Machine @ 125 Camera (Video Inspection) @ 200 Locate @ 75				250.00 400.00 150.00
ТТ1 1	(Subtotal	\$800.00
тпапк у	ou ior y	your dusiness!		Sa	ales Tax (0.0%)	\$0.00
			ТО	ΓΑΙ		\$800.00

Please make checks payable to ES ENVIRO SERVICES, LLC

For an updated W-9, email ESENVIROSERVICES@OUTLOOK.COM. THANK YOU!





Hawkins, Inc. 2381 Rosegate Roseville, MN 55113 Phone: (612) 331-6910

INVOICE

Original

Total Invoice	\$4,048.88	
Invoice Number	6850686	
Invoice Date	8/29/24	
Sales Order Number/Type	4605997	SO
Branch Plant	88	
Shipment Number	5487891	

Sold To: 456659 ACCOUNTS PAYABLE MUNICIPAL OPERATIONS & CONSULTING INC PO BOX 1689 Spring TX 77383-1700 Ship To: 457483

MOC CITY OF ARCOLA STP 5921 FM 521 ARCOLA TX 77583

Net Due	Date Terms	FOB Description	Ship Via		С	ustomer F	P.O.#	P.	O. Release	Sales Agent #
10/28/24	Net 60	PPD Origin	HAWKINS	TEXAS FLE	ET 1'	8109		28	31.780.9686	434
Line #	Item Number	Item Name/ Description		Тах	Qty Shipped	Trans UOM	Unit Price	Price UOM	Weight Net/Gross	Extended Price
1.000	41245	Azone 15 - EPA Reg. No. 7	870-5	Ν	1,760.0000	GA	\$2.3005	GA	17,758.4 LB	\$4,048.88
		1 LB BLK (Mini-Bulk)			1760.0000	GA			17,758.4 GW	

********** Receive Your Invoice Via Email *********

Please contact our Accounts Receivable Department via email at Credit.Dept@HawkinsInc.com or call 612-331-6910 to get it setup on your account.

Page 1 of 1 T		ax Rate Sales Tax			Invoice Tete	1 ¢4.049.9
	0 9	6	\$0.00		invoice rota	1 \$4,040.00
No Discounts on Freight IMPORTANT: All products are sold without warrant any kind and purchasers will, by their own to determine suitability of such products for their own Seller warrants that all goods covered by this invoice v produced in compliance with the requirements of the Labor Standards Act of 1938, as amended. S specifically disclaims and excludes any warranty merchantability and any warranty of fitness for a partic purpose. NO CLAIMS FOR LOSS, DAMAGE OR LEAKAGE ALLOWED AFTER DELIVERY IS MADE IN GOOD CONDITION.	y of ests, use. vere Fair eller of ular	CHECK REMITT/ Hawkins, Inc. P.O. Box 86026; Minneapolis, M WIRING CONTA Email: Credit.D Phone Number: Fax Number:	ANCE: 3 N 55486-0263 ICT INFORMATION: ept@Hawkinsinc.com (612) 617-8581 (612) 225-6702	FINANCIAL INSTITU US Bank 800 Nicollet Mall Minneapolis, MN S Account Name: Account #: ABA/Routing #: Swift Code#: Type of Account:	JTION: 55402 Hawkins, Inc. 180120759469 091000022 USBKUS44IIMT Corporate Checking	ACH PAYMENTS: CTX (Corporate Trade Exchange) is our preferred method. Please remember to include in the addendum the document numbers pertaining to the payment. For other than CTX, the remit to information may be emailed to Credit.Dept@Hawkinsinc.com CASH IN ADVANCE/EFT PAYMENTS: Please list the Hawkins, Inc. sales order number or your purchase order number if the invoice has not been processed yet.

This contractor and subcontractor shall abide by the requirements of 41 CFR §§60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

www.hawkinsinc.com





Magna Flow Environmental, Inc.

P.O. Box 60709 Houston, Texas 77205

	Invoice
Date	Invoice #
8/29/2024	89632

Municipal Operations & Consulting City of Arcola 20141 Schiel Rd Cypress, TX 77433

Project / Job #		P.O. No.	Terms	Rep		Location		Due Date	
64194			Net 60	VRS		City of Arcol		10/28/2024	
Qty	lt	em	Description					Rate	Amount
12	In Out Sewer T Fuel Su Manifes	Fransfer Ircharge st - L	City of Arcola 8/2/2024 8/5/2024 Sewer Transfer - Fuel Surcharge (8/2/2024: 35435 8/5/2024: 35496	12 Hour(s) 10.65% 9, 354360, 35436 3, 354964, 35497	51 70			140.00 10.65%	1,680.00 178.92
Phone #		Fax #	Thank you	or your Business!		Balance Di	Ie	\$1,858.92	
281-448-8585 281-397-719			1-397-7195		, 2 wome			ase Remit To:	,000002

Please Remit 10: Magna Flow International Inc P.O. Box 679764 Dallas, TX 75267-9764



WATER UTILITY SERVICES INC

PO Box 2628 Spring, TX 77383 US +1 2812900704 acct@waterutilityservice.com

INVOICE

BILL TO

City of Arcola c/o MOC PO Box 1689 Spring, TX 77383

P.O. NUMBER

117164

INVOICE # 92349 DATE 08/29/2024 DUE DATE 09/28/2024 TERMS Net 30

DATE	DESCRIPTION	QTY	AMOUNT
08/05/2024	Special Bacteriological Sampling and Analysis Rush	2	200.00
08/14/2024	Special Bacteriological Sampling and Analysis Rush	2	200.00
08/19/2024	Special Bacteriological Sampling and Analysis Rush	2	200.00
08/24/2024	Special Bacteriological Sampling and Analysis Rush	2	200.00

5050 Natchez

4918 Edgewood Dr

BALANCE DUE

\$800.00



WATER UTILITY SERVICES INC

PO Box 2628 Spring, TX 77383 US +1 2812900704 acct@waterutilityservice.com



BILL TO

City of Arcola c/o MOC PO Box 1689 Spring, TX 77383

INVOICE # 92389 DATE 08/29/2024 DUE DATE 09/28/2024 TERMS Net 30

COLLECTION MONTH August 2024

	BALANCE DUE	\$	140.00	
Bacteriological Sampling and Analysis		4	140.00	
DESCRIPTION		QTY	AMOUNT	





Magna Flow Environmental, Inc.

P.O. Box 60709 Houston, Texas 77205

	Invoice
Date	Invoice #
8/31/2024	90175

Municipal Operations & Consulting City of Arcola 20141 Schiel Rd Cypress, TX 77433

Project / Job #		P.O. No.	Terms	Terms Rep Location			Due Date		
64024			Net 60	VRS		City of Arcol		11/19/2024	
Qty	I	tem		Description			Rate	Amount	
6 6 24 12	In Out Job De Vactor Suppor Helper Dispos Fuel St	scription Hourly rt Truck (s) al @ L/F urcharge	City of Arcola 8/5/2024 8/5/2024 Set up equipmer Amar 281-229-2 Vactor - 6 Hour Support Truck - Helper - 24 Hou Disposal @ (L/F Fuel Surcharge (tt and bottom clea 246 (s) 6 Hour(s) r(s) () - 12 Yard(s) @ 10.65%	n lift station at	13222 Sta	te Highway 6	205.00 45.00 130.00 159.75	1,230.00 270.00 1,080.00 1,560.00 159.75
Phone #		Fax #	Thank you	for your Busine	ess!	Balance D)ue	\$4,299.75	
281-448	8-8585	28	1-397-7195					Dassa Damit To-	

Please Remit To: Magna Flow International Inc P.O. Box 679764 Dallas, TX 75267-9764
CEIVED y Auberry at 9:36 am, 9/924			antal lavaiss	IMPORTANT - I MUST APPEAR	NVOICE NUMBER ON YOUR
TO	PVS DX, INC PO BOX 674938 DALLAS,TX 75267-4938	K	ental involce	REMITTANCE Invoice No.	
Customer No.	Salesperson	ΡΟΝο		DE05007271-2	4
05014300	Bakk, Janel	1.0.10	PAYMENT DUE ON RECEIPT	8/31/2024	
B I CITY L MUN L 2014 T CYPI O	OF ARCOLA-WP ICIPAL OPERATIONS & CON 1 SCHIEL RD RESS,TX 77433	SULTING, INC.	Direct In PVS DX, INC 1919 JACINTOPORT BLVD. HOUSTON,TX 77015 281-457-4848	quiries to:	
PRODUCT #	TYPE	PURCHASE PREVIOUS CURRENT	BALANCES		CHARGE
138004	CHLORINE, 150# CYL	ORDER BALANCE SHIPMENT	s RETURNED BALANCE SHIPMENTS CF		.5000 45.00
				TAX	
Where allowat	ble by law, credit card paymer	nts will be	PLEASE PAY THIS AMOUNT PLEASE INCLUDE INVOICE NUMBEF	R ON CHECK	\$45.00
IMPORTAN VENDEE, N ON DEMAN WHATSOEN OURS. IF W	T NOTICE: THE CYLINDE IOT SOLD, AND ARE TO ID THE VALUE OF ANY C VER. PLEASE CHECK YC /E DO NOT HEAR FROM	ERS AND FITTINGS COVERI BE RETURNED TO THE VER CYLINDER OR FITTING LOS OUR CYLINDER BALANCES YOU WITHIN 10 DAYS WE	ED BY THIS INVOICE ARE LOAN NDOR IN GOOD REPAIR. OTHEF T, DESTROYED OR DAMAGED T SHOWN ABOVE TO SEE IF YOU ASSUME WE ARE CORRECT.	ED BY THE VENI RWISE VENDOR S HROUGH ANY C R RECORDS AGI	DOR TO THE SHALL BE PAID AUSE REE WITH

RE T	MIT O	PVS DX, INC PO BOX 6749 DALLAS,TX 7)38 75267-4938		D PVS DX, INC 1919 JACINT HOUSTON,TX 281-457-4848	0P0	CT INQUIRII ORT BLVD. 015	ES	TO:			VOICE NUMBER IST APPEAR ON JR REMITTANCE
Custom	ner No.		Date ordered	Salesperson			Bill of Lading N	lo.			Invoice a	and Ship Date
050 Ordered	014300 d By		9/4/2024	Bakk, Jar	nel		7005-24-0	023	644-1		9/16 Ship To	5/2024
RY	AN @ 28	1-780-9686					Net 30				0501	14301
S O L D T O	CITY O MUNIC 20141 S CYPRE	F ARCOLA-WP IPAL OPERATIO SCHIEL RD SS,TX 77433	NS & CONSULTING,	INC.	S H P T O	CITY MUN 1322 ARC	Y OF ARCOL NICIPAL OPI 22 HWY 6 OLA,TX 775	LA-' ER/ 583	WP ATIONS &	CONSUL	.TING, I	INC.
		F.O.B. TERMS FOB DESTINA			TERMS OF DELIVER	Y BSC	DRBED	CA	RRIER Smart			
Qty s	shipped		Descriptio	on	1		Quantity		Units	Unit P	rice	Amount
-	3	CHLORINE, 150#	# CYL				4	50	lb		1.2258	551.61
		SUPERFUND EX	CISE TAX									1.22
		HAZARDOUS M	ATERIAL FEE									0.75
									FUEL S	URCHAR	RGE	33.10
									FREIGH	IT	.GL	0.00
									ТАХ			0.00
									SUBTO	TAL		586.68
Retur	rnable Co	ontainer Deposit (Charges									
Less	Deposit	Charges on Conta	ainers Returned									
	3	CHLORINE,150#	EMPTY CYL									0.00
Whe	ere allowa	able by law, credi	t card payments will be	e subject to 3	.00% surcharge re	esult	ting in a new	inv	voice total c	of \$604.28	3	
					PLEASE PLEASE	PAY INCL	THIS AMOUN UDE INVOICE	IT E NI	UMBER ON	CHECK		\$586.68

CUSTOMER

PLEASE SHIP EMPTY RETURNABLE CONTAINERS PROMPTLY - NO MERCHANDISE RETURNABLE WITHOUT WRITTEN CONSENT

RECEIVED

WATER UTILITY OPERATIONS

Invoice: IN-15910

District: City of Arcola Billing Period: SEPTEMBER 2024

27316 Spectrum Way Oak Ridge, TX 77385 PO Box 1689 Spring, TX 77383-1689 Phone: (281) 367-5511 Fax: (281) 367-5517

1825 N Mason Rd Katy, TX 77449 Phone: (281) 347-8686

Date	Service Location	Work Description	Material/Labor Cost					Job Total	
			Labor/Equip	Qty		Rate	An	nount	
		<u>Operations</u>							
Sep		Meter Reading		663	\$	1.48	\$	981.24	\$ 981.24
		Water Plant Operations		1	\$	1,000.00	\$ 1	,000.00	\$ 1,000.00
		Wastewater Plant Operations		1	\$	1,400.00	\$ 1	,400.00	\$ 1,400.00
		Lift Station Operations		1	\$	500.00	\$	500.00	\$ 500.00
		Sewage Collection System Operations		1	\$	200.00	\$	200.00	\$ 200.00
		Storm System Operations		1	\$	100.00	\$	100.00	\$ 100.00
		Transfer of Accounts		15	\$	10.00	\$	150.00	\$ 150.00
		Delinquent Letters		47	\$	10.00	\$	470.00	\$ 470.00
		Door Tags		1	\$	10.00	\$	10.00	\$ 10.00
		Total Operations \$4,811.24							
		Administration							
Sep		Postage		1	\$	571.07	\$	571.07	\$ 571.07
		Facsimiles		68	\$	2.00	\$	136.00	\$ 136.00
		Photocopies		447	\$	0.15	\$	67.05	\$ 67.05
		One Page Billing Stationary		650	\$	2.81	\$ 1	,826.50	\$ 1,826.50
		Messenger Service		1	\$	2.22	\$	2.22	\$ 2.22
		Scanned Bank Processing Fee		1	\$	33.00	\$	33.00	\$ 33.00
		Online Access (Customer access to bill view, bill print & bill pay)		1	\$	220.00	\$	220.00	\$ 220.00

Date	Service Location	Work Description		Material	/Labor Cost	Job Total	
			Labor/Equip	Qty	Rate	Amount	
Aug		Test call to auto dialer.	Plant Operator Level II	4.5	\$ 51.00	\$ 229.50	\$ 229.50
Aug	4911 Edgewood Dr 4955 Natchez Trace 5050 Natchez Trace 507 Coen 6820 Greg-e	Additional time spent with customers regarding billing.	Clerical	3.0	\$ 55.00	\$ 165.00	
			Clerical-OT	1.0	\$ 82.50	\$ 82.50	\$ 247.50
Sep		Paperless Billing (e-bill)		323	\$ 0.80	\$ 258.40	\$ 258.40
08/01		Report RWA Pumpage	Clerical	0.5	\$ 55.00	\$ 27.50	\$ 27.50
08/12		Met with board member regarding teams meeting work shop with mayor and council.	Supervisor	1.5	\$ 55.00	\$ 82.50	\$ 82.50
08/16		Met with general manager regarding sewer line on 207 manor.	Supervisor	1.0	\$ 55.00	\$ 55.00	
			Supervisor-OT	1.0	\$ 82.50	\$ 82.50	
			1-Ton Utility Truck	2.0	\$ 35.00	\$ 70.00	\$ 207.50
08/19		Completed monitoring plan for district.	Plant Operator Level III	5.0	\$ 55.00	\$ 275.00	
			Utility Truck	5.0	\$ 22.00	\$ 110.00	\$ 385.00
08/21		Downloaded and filed dead end flushing reports for the month of September 2024 per TCEQ.	Supervisor	0.5	\$ 55.00	\$ 27.50	\$ 27.50
09/20		Prepared and submitted September DMR on behalf of district.	Clerical	1.0	\$ 55.00	\$ 55.00	
			CO Officer	0.5	\$ 80.00	\$ 40.00	\$ 95.00
		Total Administration \$4,416.24					
		<u>Conn/Disconnect</u>					

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
Sep		Finals and Connects		31	\$ 10.00	\$ 310.00	\$ 310.00
		Total Conn/Disconnect \$310.00					
		Lift Station					
08/01	13222 State Highway 6	Used crane truck to pull pumps 1 and 2 and checked for rags. Sent pictures to operator. Pump 1 left in auto per operator request.	CraneTruck Crew	4.0	\$ 125.00	\$ 500.00	
			Skilled Laborer	4.0	\$ 39.00	\$ 156.00	
			Utility Truck	4.0	\$ 22.00	\$ 88.00	\$ 744.00
08/06	402 Masterson	Used crane truck to pull pump 1 and 2 and checked for rags. Left pump 1 in auto.	CraneTruck Crew	4.0	\$ 125.00	\$ 500.00	
			Plant Operator Level I	3.0	\$ 47.00	\$ 141.00	
			Utility Truck	3.0	\$ 22.00	\$ 66.00	
			Materials			\$ 21.42	\$ 728.42
08/06	22018.5 S Post Oak Dr	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/07	402 Masterson	Came back to set pump 2 back into the wet well but when testing the pump propeller would not spin. Informed Supervisor and left pump out.	CraneTruck Crew	3.0	\$ 125.00	\$ 375.00	
			Plant Operator Level I	3.0	\$ 47.00	\$ 141.00	
			Utility Truck	3.0	\$ 22.00	\$ 66.00	\$ 582.00
08/13	22018.5 S Post Oak Dr	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/20	22018.5 S Post Oak Dr	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	

Date	Service Location	Work Description		Material/Labor Cost			Job Total	
			Labor/Equip	Qty	Rate)	Amount	
			Plant Operator Level II-OT	0.5	\$ 70	6.50	\$ 38.25	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 85.75
08/22	22018.5 S Post Oak Dr	Cleaned rags off floats and transducer.	Plant Operator Level III	1.0	\$ 5	5.00	\$ 55.00	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 77.00
08/22	402 Masterson	Cleaned rags off floats and transducer.	Plant Operator Level III	1.0	\$ 5	5.00	\$ 55.00	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 77.00
08/22	22018.5 S Post Oak Dr	Responded to call out for no power, found power on auto dailer not working properly called supervisor.	Plant Operator Level III-OT	1.0	\$ 82	2.50	\$ 82.50	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 104.50
08/23	22018.5 S Post Oak Dr	Looked into operator report of autodialer not calling out occasionally. Diagnosed as faulty power brick for cell card. Replaced and tested functionality.	Skilled Laborer	1.5	\$ 3	9.00	\$ 58.50	
			Supervisor	1.5	\$ 5	5.00	\$ 82.50	
			Utility Truck	3.0	\$ 22	2.00	\$ 66.00	
			Materials				\$ 9.52	\$ 216.52
08/23	22018.5 S Post Oak Dr	Purchased replacement power brick for cell card.	Supervisor	0.5	\$ 5	5.00	\$ 27.50	
			Utility Truck	0.5	\$ 22	2.00	\$ 11.00	
			Materials				\$ 9.52	\$ 48.02
08/23	22018.5 S Post Oak Dr	Responded to call for no power, checked lift sation and reset auto dailer.	Plant Operator Level III	1.0	\$ 5	5.00	\$ 55.00	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 77.00
08/24	22018.5 S Post Oak Dr	Responded to call out for no power, checked power line, found nothing wrong, reset auto dailer.	Plant Operator Level III-OT	1.0	\$ 82	2.50	\$ 82.50	
			Utility Truck	1.0	\$ 22	2.00	\$ 22.00	\$ 104.50
	I		1		L		1	Į

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
08/26	22018.5 S Post Oak Dr	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/28	104 N. Pine	Lift pump 2 tripped; reset pump.	Plant Operator Level III	0.5	\$ 55.00	\$ 27.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 38.50
08/28	22018.5 S Post Oak Dr	Exercise generator for proper operations.	Plant Operator Level III	0.5	\$ 55.00	\$ 27.50	
00/04			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 38.50
09/01	22018.5 S Post Oak Dr	Monthly auto dialer service.	Rate	1.0	\$ 34.00	\$ 34.00	\$ 34.00
		Total Lift Station \$3,065.21					
		Residential Inspections					
Aug		Sewer Inspection		26	\$ 25.00	\$ 650.00	\$ 650.00
Aug		Post Lot Inspection		13	\$ 25.00	\$ 325.00	\$ 325.00
Aug		Customer Service Inspection		13	\$ 50.00	\$ 650.00	\$ 650.00
		Total Residential Inspections \$1,625.00					
		Sewer Collection					
Aug		Created reports for the last six months for board rep.	Supervisor	2.0	\$ 55.00	\$ 110.00	
			1-Ton Utility Truck	2.0	\$ 35.00	\$ 70.00	\$ 180.00
Sep		Grease Trap Inspections		14	\$ 50.00	\$ 700.00	\$ 700.00
07/03	4825 W Davis	Scheduled contractor to jet and televise the line.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
	1	1	1	1	1	1	l

Date	Service Location	Work Description		Material	/Labor Cost	Job Total	
			Labor/Equip	Qty	Rate	Amount	
08/05		Met contractors to do 1 year sanitary sewer	Plant Operator	2.0	\$ 55.00	\$ 110.00	
		inspection for Post Oak Pointe Section 3.	Level III				
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 154.00
08/07	207 Manor Ave	Attempted to locate sewer line, spoke with customer and they informed that a sewer line was never installed only a water line was. Notified supervisor to find out next step.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/15	13130 Tuscany Creek	Lowered manhole to grade.	Plant Operator Level I	2.0	\$ 47.00	\$ 94.00	
			Plant Operator Level II	2.0	\$ 51.00	\$ 102.00	
			Utility Truck	4.0	\$ 22.00	\$ 88.00	
			Materials			\$ 84.43	\$ 368.43
08/20	307 Masterson	Used backhoe to make repairs to sewer main.	Rental	13.0	\$ 14.00	\$ 182.00	
			Backhoe Crew	8.0	\$ 233.00	\$ 1,864.00	
			Backhoe Crew-OT	5.0	\$ 294.50	\$ 1,472.50	
			Materials			\$ 901.63	\$ 4,420.13
08/21	419 Rosen	Met with customer regarding them wanting a check flow valve or backflow preventor installed, informed supervisor.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/21		Came to church by 5115 FM 521 Rd to check if they were connected to the sewer and water.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/23	13106 Tuscany Creek	Lowered manhole to grade with sidewalk.	Plant Operator Level I	3.0	\$ 47.00	\$ 141.00	

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
			Utility Truck	3.0	\$ 22.0	0 \$ 66.0	\$ 207.00
08/26	13038 Tuscany Creek	Lowered manhole to grade.	Plant Operator Level I	1.5	\$ 47.0	0 \$ 70.5	2
			Skilled Laborer	1.5	\$ 39.0	D \$ 58.5	D
			Utility Truck	3.0	\$ 22.0	0 \$ 66.0	D
			Materials			\$ 36.0	\$ 231.08
08/29	13130 Tuscany Creek	Raised manhole to grade.	Plant Operator Level I	1.5	\$ 47.0	0 \$ 70.5	
			Plant Operator Level II	1.5	\$ 51.0	0 \$ 76.5	
			Utility Truck	3.0	\$ 22.0	0 \$ 66.0	0
			Materials			\$ 163.9	\$ 376.90
08/29		Got a call out for a missing manhole lid off of FM 521 Rd and W Davis Rd. All manholes had lids.	Plant Operator Level I-OT	2.5	\$ 70.5	0 \$ 176.2	5
			Utility Truck	2.5	\$ 22.0	0 \$ 55.0	\$ 231.25
		Total Sewer Collection \$7,124.29					
		<u>Storm Sewer</u>					
07/24		Scheduled contractor out to jet out storm line at 6015 Ladonia St.	Supervisor	0.5	\$ 55.0	0 \$ 27.5	
			1-Ton Utility Truck	0.5	\$ 35.0	0 \$ 17.5	\$ 45.00
08/05	13256 1/2 SW Hwy 6 S	Checked storm pump station.	Plant Operator Level III	0.5	\$ 55.0	0 \$ 27.5	
			Utility Truck	0.5	\$ 22.0	D \$ 11.0	\$ 38.50
08/08	834 Coen Rd	Cleaned out the storm drain.	Plant Operator Level II	0.5	\$ 51.0	0 \$ 25.5	
			Utility Truck	0.5	\$ 22.0	D \$ 11.0	\$ 36.50

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Date	Service Location	Work Description		Material	Job Total		
			Labor/Equip	Qty	Rate	Amount	
08/14	13256 1/2 SW Hwy 6 S	Checked storm pump station.	Plant Operator Level III	0.5	\$ 55.00	\$ 27.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 38.50
		Total Storm Sewer \$158.50					
		Wastewater Plant	-				
06/27	5925 FM 521	Scheduled contractor for repairs, due to leak on bleach valve.	Plant Operator Level III	1.0	\$ 55.00	\$ 55.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 77.00
07/17	5925 FM 521	Investigated report of digester blowers not running, belt on one blower was broken. Got second blower working left off at operators request.	Skilled Laborer	3.0	\$ 39.00	\$ 117.00	
			Utility Truck	3.0	\$ 22.00	\$ 66.00	\$ 183.00
07/29	5925 FM 521	Worked on pre-inspection survey.	Compliance Level II	2.5	\$ 80.00	\$ 200.00	
			Utility Truck	2.5	\$ 22.00	\$ 55.00	\$ 255.00
08/05	5925 FM 521	Checked oil and drained water from clarifiers motors.	Plant Operator Level III	1.0	\$ 55.00	\$ 55.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 77.00
08/06	5925 FM 521	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/06		Scheduled monthly sampling for district.	Compliance Level I	0.5	\$ 60.00	\$ 30.00	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 41.00
08/07	5925 FM 521	Scheduled chemical delivery for facility use; Bleach	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50

Date	Service Location	Work Description		Material	/Labor Cost	Job Total	
			Labor/Equip	Qty	Rate	Amount	
08/09	5925 FM 521	Wasted plant to lower solids.	Plant Operator Level II	4.5	\$ 51.00	\$ 229.50	
			Utility Truck	4.5	\$ 22.00	\$ 99.00	\$ 328.50
08/09	5925 FM 521	Met with lab to pull samples.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 85.75
08/09	5925 FM 521	Met lab to pull samples.	Plant Operator Level III	0.2	\$ 55.00	\$ 13.75	
			Plant Operator Level III-OT	0.5	\$ 82.50	\$ 41.25	
			Utility Truck	1.2	\$ 22.00	\$ 27.50	\$ 82.50
08/09	5925 FM 521	Transfer line on clarifiers clogged up on clarifier 2. Got transfer line unclogged.	Plant Operator Level III	1.5	\$ 55.00	\$ 82.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 115.50
08/11	5925 FM 521	Wasted plant to lower solids.	Plant Operator Level II-OT	1.5	\$ 76.50	\$ 114.75	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 147.75
08/12	5925 FM 521	Met with contractor at sewer plant regarding walk through for add ons to contact chamber and aeration.	Plant Operator Level III	2.0	\$ 55.00	\$ 110.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 154.00
08/13	5925 FM 521	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/14	5925 FM 521	Blower 1 tripped at breaker switched to blower 2.	Plant Operator Level III	1.0	\$ 55.00	\$ 55.00	

Service Location	Work Description		Material/Labor Cost				Job Total	
		Labor/Equip	Qty		Rate	Amount		
		Utility Truck	1.0	\$	22.00	\$ 22.0	\$	77.00
5925 FM 521	Wasted plant to lower solids.	Plant Operator Level II	4.0	\$	51.00	\$ 204.0	0	
		Utility Truck	4.0	\$	22.00	\$ 88.0	\$	292.00
5925 FM 521	Checked and pulled samples before lab came.	Plant Operator Level II-OT	0.5	\$	76.50	\$ 38.2	5	
		Utility Truck	0.5	\$	22.00	\$ 11.0	\$	49.25
5925 FM 521	Met lab to pull samples.	Plant Operator Level III	0.5	\$	55.00	\$ 27.5	0	
		Plant Operator Level III-OT	0.5	\$	82.50	\$ 41.2	5	
		Utility Truck	1.0	\$	22.00	\$ 22.00	\$	90.75
5925 FM 521	Investigated report of blower 1 tripping breaker Identified problem as over amping cause by pump got with operator.	Skilled Laborer	4.0	\$	39.00	\$ 156.0	0	
		Utility Truck	4.0	\$	22.00	\$ 88.00	\$	244.00
5925 FM 521	Cleaned clarifiers with scrub brush.	Plant Operator Level III	2.0	\$	55.00	\$ 110.00	0	
		Utility Truck	2.0	\$	22.00	\$ 44.00	\$	154.00
5925 FM 521	Came to fix sprayer on the manholes that got stuck, sprayer now functioning properly.	Plant Operator Level II	1.0	\$	51.00	\$ 51.00	0	
		Utility Truck	1.0	\$	22.00	\$ 22.0	0	
		Materials				\$ 25.5	5\$	98.55
5925 FM 521	Met with contractors, Freshwater 1 and City of Arcola.	Plant Operator Level II	2.0	\$	51.00	\$ 102.00	0	
		Plant Operator Level III	2.5	\$	55.00	\$ 137.5	٥	
		Utility Truck	4.5	\$	22.00	\$ 99.00	\$	338.50
	Service Location S925 FM 521	Service Location Work Description 5925 FM 521 Wasted plant to lower solids. 5925 FM 521 Checked and pulled samples before lab came. 5925 FM 521 Met lab to pull samples. 5925 FM 521 Investigated report of blower 1 tripping breaker Identified problem as over amping cause by pump got with operator. 5925 FM 521 Cleaned clarifiers with scrub brush. 5925 FM 521 Cleaned clarifiers with scrub brush. 5925 FM 521 Came to fix sprayer on the manholes that got stuck, sprayer now functioning property. 5925 FM 521 Met with contractors, Freshwater 1 and City of Arcola.	Service LocationWork DescriptionImage: Construct on the service of t	Service Location Work Description Material Image: Construction of the service	Service LocationWork DescriptionIntertal/LatImage: Labor/EquipCutyCutyCuty5925 FM 521Wasted plant to lower solids.Plant Operator Level II4.0\$5925 FM 521Checked and pulled samples before lab came.Plant Operator Level II OT Utility Truck0.5\$5925 FM 521Checked and pulled samples.Plant Operator Level II OT Utility Truck0.5\$5925 FM 521Met lab to pull samples.Plant Operator Level III Utility Truck0.5\$5925 FM 521Investigated report of blower 1 tripping breaker lidentified problem as over amping cause by pump of with operator.Skilled Laborer4.0\$5925 FM 521Cleaned clarifiers with scrub brush.Plant Operator Level II Utility Truck2.0\$5925 FM 521Cleaned clarifiers with scrub brush.Plant Operator Level II Utility Truck2.0\$5925 FM 521Came to fix sprayer on the manholes that got stuck. sprayer now functioning property.Plant Operator Level II Utility Truck1.0\$5925 FM 521Came to fix sprayer on the manholes that got stuck. MaterialsPlant Operator Level II Utility Truck1.0\$5925 FM 521Met with contractors, Freshwater 1 and City of Arcola. Level II Utility Truck2.0\$5925 FM 521Met with contractors, Freshwater 1 and City of Arcola. Level II Utility Truck2.0\$5925 FM 521Met with contractors, Freshwater 1 and City of Arcola. Level II Utility Truck2.0\$<	Service Location Work Description Labor/Equip Odd Rate 5925 FM 521 Wasted plant to lower solids. Utilty Truck 1.0 \$ 22.00 5925 FM 521 Wasted plant to lower solids. Plant Operator Level II 4.0 \$ 5.00 5925 FM 521 Checked and pulled samples before lab came. Plant Operator Level II-OT 0.5 \$ 78.50 5925 FM 521 Met lab to pull samples. Plant Operator Level III-OT 0.5 \$ 22.00 5925 FM 521 Met lab to pull samples. Plant Operator Level III-OT 0.5 \$ 22.00 5925 FM 521 Investigated report of blower 1 tripping breaker Identified problem as over amping cause by pump got with operator. 1.0 \$ 22.00 5925 FM 521 Cleaned clarifiers with sorub brush. Plant Operator Level II 1.0 \$ 22.00 5925 FM 521 Cleaned clarifiers with sorub brush. Plant Operator Level II 1.0 \$ 22.00 5925 FM 521 Cleaned clarifiers with sorub brush. Plant Operator Level II 1.0 \$ 22.00 5925	Service Location Work Description Heriter Labor/Equip (N) Oty Ratio Amount 5925 FM 521 Wasted plant to lower solids. Plant Operator Lowell 4.0 \$ 22.00	Service Location Work Description LaborEquip Oty Rate Annount 5925 FM 521 Wasted plant to lower solids. Unity Truck 1.0 \$ 22.00 \$ 22.00 \$ 20.00

Date	Service Location	Work Description		Material	laterial/Labor Cost		
			Labor/Equip	Qty	Rate	Amount	
08/20	5925 FM 521	Additional time for process control. Checked blowers, solids, contact chamber, generator, and process system.	Plant Operator Level III	1.5	\$ 55.00	\$ 82.50	
			Plant Operator Level III-OT	0.5	\$ 82.50	\$ 41.25	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 167.75
08/20	5925 FM 521	Met with contractors, Freshwater 1 and City of Arcola to walk through plant.	Supervisor	3.5	\$ 55.00	\$ 192.50	
			1-Ton Utility Truck	3.5	\$ 35.00	\$ 122.50	\$ 315.00
08/21	5925 FM 521	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/21	5925 FM 521	Scheduled chemical delivery for facility use; Bleach	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/22	5925 FM 521	Picked up material to clean building.	Plant Operator Level III	0.5	\$ 55.00	\$ 27.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	
			Materials			\$ 44.44	\$ 82.94
08/23	5925 FM 521	Wasted plant to lower solids.	Plant Operator Level II	5.5	\$ 51.00	\$ 280.50	
			Utility Truck	5.5	\$ 22.00	\$ 121.00	\$ 401.50
08/23	5925 FM 521	Met lab to pull and check samples.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 85.75

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
08/24	5925 FM 521	Responded to call out for blowers failure, found	Plant Operator	1.0	\$ 82.50	\$ 82.50	
		blowers unpped, reset blowers and auto daller.	Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 104.50
08/26	5925 FM 521	Replace blower belts and grease.	Supervisor	4.5	\$ 55.00	\$ 247.50	
			1-Ton Utility Truck	4.5	\$ 35.00	\$ 157.50	
			Materials			\$ 70.98	\$ 475.98
08/27	5925 FM 521	Met with contractor for blower start up.	Plant Operator Level III	1.5	\$ 55.00	\$ 82.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 115.50
08/27	5925 FM 521	Clean clarifier.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/28	5925 FM 521	Met with contractor at sewer plant regarding start up for aeration blowers.	Plant Operator Level III	2.5	\$ 55.00	\$ 137.50	
			Utility Truck	2.5	\$ 22.00	\$ 55.00	\$ 192.50
08/28	5925 FM 521	Met with contractor for aeration blower start up.	Plant Operator Level III	1.5	\$ 55.00	\$ 82.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 115.50
08/29	5925 FM 521	Lubricated blowers.	Plant Operator Level III	1.0	\$ 55.00	\$ 55.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 77.00
08/30	5925 FM 521	Wasted plant to lower solids.	Plant Operator Level II	2.5	\$ 51.00	\$ 127.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	3.0	\$ 22.00	\$ 66.00	\$ 231.75

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
08/30	5925 FM 521	Pulled and checked samples before lab came.	Plant Operator Level II-OT	1.0	\$ 76.50	\$ 76.50	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 98.50
08/30	5925 FM 521	Met with lab to collect samples.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/30	5925 FM 521	Additional time for process control. Checked solids, sludge blanket, residuals and how upgrades are doing.	Supervisor	2.0	\$ 55.00	\$ 110.00	
			1-Ton Utility Truck	2.0	\$ 35.00	\$ 70.00	\$ 180.00
09/01	5925 FM 521	Monthly auto dialer service.	Rate	1.0	\$ 34.00	\$ 34.00	\$ 34.00
09/18	5925 FM 521	Met with contractor to perform annual fire extinguisher inspection.	Contractor	1.0	\$ 0.00	\$ 187.00	
			Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			1-Ton Utility Truck	0.5	\$ 35.00	\$ 17.50	\$ 230.00
		Total Wastewater Plant \$6,091.22					
		Water Distribution					
Aug		Flushed dead end mains throughout district.	Skilled Laborer	4.0	\$ 39.00	\$ 156.00	
			Skilled Laborer-OT	1.0	\$ 58.50	\$ 58.50	
			Utility Truck	5.0	\$ 22.00	\$ 110.00	\$ 324.50
Aug	330 Compton Rd-a 535 Post Rd Dom	Verified proper operation of meter.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00

Date	Service Location	Work Description		Material	/Labor Cost	Job Total	
			Labor/Equip	Qty	Rate	Amount	
Aug	1039 Vista Pointe Dr	Replaced meter box lid.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	
			Materials			\$ 9.63	\$ 46.13
Aug	1118 Vista Pointe Dr 13119 Tuscany Creek 4942 Natchez Trace 5131 Sunset Oaks Dr 5135 Sunset Oaks Dr 5139 Sunset Oaks Dr 5143 Sunset Oaks Dr 5147 Sunset Oaks Dr	Verify meter information for billing purposes.	Plant Operator Level II	9.0	\$ 51.0C	\$ 459.00	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	9.5	\$ 22.00	\$ 209.00	\$ 706.25
Aug	544 Coen	Located and marked water and sewer lines within the District.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
Aug		Read I/C read from master meter.	Plant Operator Level II	2.5	\$ 51.00	\$ 127.50	
			Utility Truck	2.5	\$ 22.00	\$ 55.00	\$ 182.50
Aug	13114 Tuscany Creek 1690 Westway Dr 424 Compton 5023 Pine Haven Ln	Replace Meter (5/8"x3/4")	Rate	4.0	\$ 115.00	\$ 460.00	
			Utility Truck	4.0	\$ 22.00	\$ 88.00	\$ 548.00
Aug		Met contractor to pull samples required by TCEQ.	Plant Operator Level II	2.0	\$ 51.00	\$ 102.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 146.00
Aug	306 Howell St	Verified endpoint status.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/08	13118 Tuscany Creek	Located meter box.	Plant Operator Level I	1.0	\$ 47.00	\$ 47.00	
			Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 142.00
08/08	13102 Tuscany Creek	Flushed hydrants for water quality during the month.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/08	5126 Sunset Oaks Dr	Located meter box.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/09	5131 Sunset Oaks Dr	Investigated reported leak and re-read meter; service line leak found, scheduled repairs.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/13	5123 Hunters Trl	Located meter box.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 158.75
08/14	4911 Edgewood Dr	Performed meter accuracy test and checked for leaks per customer request. Meter accurate and no leaks detected. Made customer contact.	Plant Operator Level II	2.0	\$ 51.00	\$ 102.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 146.00
08/14	1130 Vista Pointe Dr	Located meter box.	Plant Operator Level II	2.0	\$ 51.00	\$ 102.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 146.00

Date	Service Location	Work Description		Material	aterial/Labor Cost		
			Labor/Equip	Qty	Rate	Amount	
08/14	507 Coen	Investigated reported leak and re-read meter; service line leak found, scheduled repairs.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/14	201 Pinedale Ave	Investigated reported leak and re-read meter; leak found on customer's line, left door tag.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/15	5202 Stone Hill Ct	Investigated reported leak and re-read meter; found 6" main break. Isolated valves and monitored pressure while crew made repairs.	Skilled Laborer	3.0	\$ 39.00	\$ 117.00	
			Supervisor	3.0	\$ 55.00	\$ 165.00	
			Utility Truck	3.0	\$ 22.00	\$ 66.00	
			1-Ton Utility Truck	3.0	\$ 35.00	\$ 105.00	
			Materials			\$ 944.23	\$ 1,397.23
08/15		Took some prints to an engineering firm in Rosenberg.	Plant Operator Level II	2.0	\$ 51.00	\$ 102.00	
			Skilled Laborer	2.0	\$ 39.00	\$ 78.00	
			Utility Truck	4.0	\$ 22.00	\$ 88.00	\$ 268.00
08/16	13114 Tuscany Creek	Investigated missing meter nipple, per builder. Scheduled replacement.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/16	5106 Hunters Trl	Lowered meter box to grade.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/19	715 S Pine	Investigated reported leak and re-read meter; no leak found, made customer contact.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
08/19	406 Masterson	Performed meter accuracy test and checked for leaks per customer request. Meter accurate and no leaks detected. Made customer contact.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/21	13022 Tuscany Creek	Located meter box.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 85.75
08/21	5150 Hunters Trl	Flushed hydrants for water quality during the month.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/22	13014 Tuscany Creek	Located meter box.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 158.75
08/23	5050 Natchez Trace	Investigated reported leak and re-read meter; no leak found, made customer contact.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Utility Truck	0.5	\$ 22.00	\$ 11.00	\$ 36.50
08/24	1674 Westway Dr	Investigated low pressure reported by customer. Restored pressure to normal.	Plant Operator Level I-OT	2.0	\$ 70.50	\$ 141.00	
			Utility Truck	2.0	\$ 22.00	\$ 44.00	\$ 185.00
08/26		Field Staff verified service line material required at the addresses identified in phase 1. Compliance completed TCEQ forms and submitted on behalf of the District.	LCRAA Phase 2	1.0	\$ 8,505.00	\$ 8,505.00	\$ 8,505.00

Date	Service Location	Work Description		Vaterial/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
08/27	5050 Natchez Trace	Performed meter accuracy test and checked for leaks per customer request. Meter accurate and no leaks detected. Made customer contact.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/27	13122 Tuscany Creek	Flushed hydrants for water quality during the month.	Plant Operator Level II	0.5	\$ 51.00	\$ 25.50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 85.75
08/27	5110 Sunset Oaks Dr	Located meter box.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/28	5142 Sunset Oaks Dr	Located meter box.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/29	5115 Hunters Trl	Located meter box.	Plant Operator Level II	1.5	\$ 51.00	\$ 76.50	
			Utility Truck	1.5	\$ 22.00	\$ 33.00	\$ 109.50
08/29	5114 Hunters Trl	Unable to locate meter box.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/30	5134 Sunset Oaks Dr	Lowered meter box to grade.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	\$ 73.00
08/30	1110 Vista Pointe Dr	Flushed hydrants for water quality during the month.	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 38.25	

Date	Service Location	Work Description		Material	terial/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amour	ıt	
			Utility Truck	1.5	\$ 22.00	\$ 33	00 :	\$ 122.25
09/03	507 Coen	Used backhoe to repair service line leak.	Rental	6.0	\$ 14.00	\$ 84.	00	
			Backhoe Crew	6.0	\$ 233.00	\$ 1,398	00	
			Materials			\$ 331.	82	\$ 1,813.82
09/03	1690 Westway Dr	Performed meter accuracy test and checked for leaks per customer request. Meter accurate and no leaks detected. Made customer contact.	Plant Operator Level II	0.5	\$ 51.00	\$ 25	50	
			Utility Truck	0.5	\$ 22.00	\$ 11.	00 :	\$ 36.50
09/03	5139 Sunset Oaks Dr	Located meter box.	Plant Operator Level II	1.5	\$ 51.00	\$ 76	50	
			Plant Operator Level II-OT	0.5	\$ 76.50	\$ 44.	60	
			Utility Truck	2.0	\$ 22.00	\$ 44	00 :	\$ 165.10
09/10	13123 Tuscany Creek	Used backhoe to repair service line leak.	Rental	4.0	\$ 14.00	\$ 56	00	
			Backhoe Crew-OT	4.0	\$ 294.50	\$ 1,178	00	
			Foreman-OT	1.0	\$ 76.50	\$ 76	50	
			1-Ton Utility Truck-OT	1.0	\$ 35.00	\$ 35.	00	
			Materials			\$ 394.	28	\$ 1,739.78
		Total Water Distribution \$18,678.56						
		Water Plant						
08/01	13246.5 Hwy 6	Well keep tripping. Called contractor to fix problems.	Plant Operator Level III	0.5	\$ 55.00	\$ 27.	50	
			Utility Truck	0.5	\$ 22.00	\$ 11.	00 :	\$ 38.50
08/07	13246.5 Hwy 6	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$ 51.00	\$ 25	50	

Date	Service Location	Work Description		Material/Labor Cost				Job Total		
			Labor/Equip	Qty	F	Rate	Amo	unt		
			Utility Truck	0.5	\$	22.00	\$	1.00	\$	36.50
08/08	13246.5 Hwy 6	Continuous monitoring of well operation, GST level, booster pump operation, disinfectant residual & distribution pressure. 7/07-7/09, 8/08	Plant Operator Level II	12.0	\$	51.00	\$ 6 [^]	2.00		
			Plant Operator Level II-OT	17.5	\$	76.50	\$ 1,33	8.75		
			Utility Truck	29.5	\$	22.00	\$ 64	9.00		
			Materials				\$	5.23	\$	2,654.98
08/08	13246.5 Hwy 6	Replaced PS4, programmed set points to match existing. Tested functionality.	Supervisor	3.5	\$	55.00	\$ 19	2.50		
			Utility Truck	3.5	\$	22.00	\$	7.00		
			Materials				\$ 59	6.44	\$	865.94
08/09	13246.5 Hwy 6	Responded to call out for low level wet well, checked facility and reset auto dailer.	Plant Operator Level III	1.0	\$	55.00	\$	5.00		
			Utility Truck	1.0	\$	22.00	\$ 2	2.00	\$	77.00
08/13	13246.5 Hwy 6	Generator not working correctly, unable to exercise.	Plant Operator Level II	0.5	\$	51.00	\$ 2	5.50		
			Utility Truck	0.5	\$	22.00	\$	1.00	\$	36.50
08/14	13246.5 Hwy 6	Checked booster pumps, HPT tanks, water well, and generator.	Plant Operator Level III	1.0	\$	55.00	\$	5.00		
			Utility Truck	1.0	\$	22.00	\$ 2	2.00	\$	77.00
08/20	13246.5 Hwy 6	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$	51.00	\$ 2	:5.50		
			Utility Truck	0.5	\$	22.00	\$	1.00	\$	36.50
08/22	13246.5 Hwy 6	Checked booster pumps, HTP tanks, well, and generator.	Plant Operator Level III	1.0	\$	55.00	\$	5.00		
			Utility Truck	1.0	\$	22.00	\$ 2	2.00	\$	77.00
									Ĺ	

Date	Service Location	Work Description		Material	terial/Labor Cost			Job Total	
			Labor/Equip	Qty	R	ate	Am	ount	
08/27	13246.5 Hwy 6	Met with contractors to discuss booster pump 1 not working properly.	Plant Operator Level III	2.5	\$	55.00	\$	137.50	
08/28	13246.5 Hwy 6	Exercise generator for proper operations.	Utility Truck Plant Operator	2.5 0.5	\$ \$	22.00 82.50	\$	55.00 41.25	\$ 192.50
			Utility Truck	0.5	\$	22.00	\$	11.00	\$ 52.25
09/01	13246.5 Hwy 6	Monthly auto dialer service.	Rate	1.0	\$	34.00	\$	34.00	\$ 34.00
09/03	13246.5 Hwy 6	Exercised generator for proper operations.	Plant Operator Level II	0.5	\$	51.00	\$	25.50	
			Utility Truck	0.5	\$	22.00	\$	11.00	\$ 36.50
09/18	13246.5 Hwy 6	Met with contractor to perform annual fire extinguisher inspection.	Contractor	1.0	\$	0.00	\$	378.95	
			Plant Operator Level II	0.5	\$	51.00	\$	25.50	
			1-Ton Utility Truck	0.5	\$	35.00	\$	17.50	\$ 421.95
		Total Water Plant \$4,637.12							
		Water Taps							
Aug	13010 Tuscany Creek 13014 Tuscany Creek 13018 Tuscany Creek 13022 Tuscany Creek 13026 Tuscany Creek 13030 Tuscany Creek 13034 Tuscany Creek 13038 Tuscany Creek 13102 Tuscany Creek 13102 Tuscany Creek 5151 Hunters Trl 5202 Stone Hill Ct 5203 Stone Hill Ct 5206 Stone Hill Ct 5207 Stone Hill Ct 5210 Stone Hill Ct 5211 Stone Hill Ct	Made 5/8" x 3/4" single, short water tap.		16	\$	725.00	\$ 11,	500.00	\$ 11,600.00

Date	Service Location	Work Description		Material/Labor Cost			Job Total
			Labor/Equip	Qty	Rate	Amount	
Aug	721 Coen	Set 5/8" x 3/4" electronic meter & programmed endpoint. (New tap)	Plant Operator Level II	1.0	\$ 51.00	\$ 51.00	
			Utility Truck	1.0	\$ 22.00	\$ 22.00	
			Materials			\$ 388.41	\$ 461.41
		10tal water Taps \$12,061.41					
							-
					Total:	\$62,978.79	

Insurance Proposal Prepared for

Ft. Bend Co. FWSD No. 1





McDonald & Wessendorff Insurance

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Please contact us at 281-342-6837 with any questions, comments or concerns.

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TYPE OF POLICY:	PROPERTY			
PROPOSED EFFECTIVE DATE:	11/19/24			
COVERAGE:	* Special Form for Real and Personal Property * Terrorism Included			
VALUATION:	Replacement Cost – Real and Personal Property			
COINSURANCE:	Waived – Real and Personal Property			
DEDUCTIBLE:	\$5,000 Property \$50,000 Flood \$25,000 Earthquake & Earth Movement 1% of the limit with \$10,000 Min. Windstorm or Hail			
LIMITS:	 \$ 9,256,750 Real Property \$ 1,000,000 Flood (Per Occurrence & Annual Aggregate) \$ 1,000,000 Earthquake & Earth Movement (Per Occurrence & Annual Aggregate) \$ 100,000 Extra Expense 			
POLICY TERM:	One Year			
PREMIUM:	\$11,825			
COMPANY:	Hanover Insurance Company AM Best Rating: A XV			

ACCEPTED BY:	DATE:
REJECTED BY:	DATE:

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

McDonald & Wessendorff Insurance

611 Morton Street, Richmond, TX 77469 Phone: (281)762-5215 Email:kathryn.williams@mcwess-insurance.com Kathryn Williams

DATE:August 1, 2024ENGINEER:Jacobs EngineeringATTN:David DybalaEMAIL:david.dybala@jacobs.com

RE: Ft. Bend Co. FWSD No. 1; Engineer Report of Values (ERV)

We have been requested to submit an insurance proposal for the above referenced District. Please review the questions below and indicate the type and quantity of any facilities pertinent to The District. Thank you!

Indicate how many of the following the district owns. If none, so indicate.

Does the district have water wells?	YES	If so, number of submersible pumps?	***
	(2)		
Lessors Risk (Sq/Ft)	No	Any Pumps 500 HP or greater?	No
Swimming Pools / Splash Pads	No	Parks / Trails	No
Detention Ponds*	No	Lakes**	No

Ponds** = have sloped sides / primarily for detention/retention – can be wet or dry *Lakes** = amenity purposes only – no detention (If for dual purpose, list as pond)

*** District has two water wells with pumps downhole and a vertical turbine motor at the surface.

Please review the attached information for all insured facilities/property and highlight any changes or additions.

PLEASE NOTE:

SHOW FRAME STRUCTURES AS A SEPARATE LINE ITEM ON SPREADSHEET (WP#1 and WP#2 have small buildings and their replacement costs are included with the overall WP#1 and WP#2 replacement costs.)

TOTAL VALUES: \$ 9,256,750.00

(INSURANCE POLICY IS BASED ON REPLACEMENT COST VALUATION)

SIGN HE	RE:	00		
х	David Chen	to alfaha, Jr.	David C. Dybala, Jr.	08/05/24
	Acknowledged By:	(Signature)	Print Name	Date

In the event of a claim, if the values are not updated The District could suffer a financial loss. Please note the Engineer or General Manager's signature approving these values.

LOC. i	# Description	Address	City	Zip	2023 Replacement Cost	2023 Contents Value	2024 Replacement Cost	2024 Contents Value	Total Value	Year Built	Flood Zone	Construction & Square Footage of Buildings
1	WP#1/Gravel Drive/Fence	14415 First St.	Fresno	77545	\$1.750.000.00		\$1.802.500.00		\$1.802.500.00	2008	x	MCC building at site, which is made of pre-cast concrete, and has a square footage of 160
2	Generator	14415 First St.	Fresno	77545	\$250,000.00		\$257,500.00		\$257,500.00	2010	X	
3	Water Well#1	14415 First St.	Fresno	77545	\$1,400,000.00		\$1,442,000.00		\$1,442,000.00	2008	Х	
4	TTLS/Asphalt drive/Fence	4521 FM 521	Fresno	77545	\$625,000.00		\$643,750.00		\$643,750.00	2015	Х	
												of pre-cast concrete, and has a square footage of
5	WP#2/Asphalt Drive/Fence	214 1/2 Renfrow-Burford Rd	Fresno	77545	\$2,500,000.00		\$2,575,000.00		\$2,575,000.00	2023	Х	240
6	Water Well#2	214 1/2 Renfrow-Burford Rd	Fresno	77545	\$1,200,000.00		\$1,236,000.00		\$1,236,000.00	2023	Х	
7	FRLS/Concrete Drive/Fence	3415 1/2 Maryland St	Fresno	77545	\$0.00		\$1,300,000.00		\$1,300,000.00	2024	Х	
		ACEMENT COST / CONTENTS	/ TOTAL VA	1	\$7,725,000.00		\$9,256,750.00		\$9,256,750.00			

MOBILE EQUIPMENT		
YEAR/MAKE/MODEL/SERIAL #/ VALU		
	Total:	\$ -

**** OPTION 1- NEW CARRIER ****

TYPE OF POLICY:	COMPREHENSIVE BOILER & MACHINERY
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGE:	 * Sudden and Accidental Breakdown of Objects – Including Pumps, Motors, Electrical Equipment. * Mechanical Failure and Electrical Surges * Terrorism Included
VALUATION:	Repair / Replacement Cost
COINSURANCE:	Waived
DEDUCTIBLE:	\$25,000 Deductible on all underground property (excluding lift stations) and all 500 HP or greater pumps, motors, compressors and blowers.
	\$10,000 Deductible applies toward all other covered objects.
LIMITS:	 \$ 9,256,750 \$ 500,000 Extra Expense
POLICY TERM:	One Year
PREMIUM:	\$13,089
COMPANY:	Chubb AM Best Rating: A ++ XV

ACCEPTED BY:	DATE:
REJECTED BY:	DATE:

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

**** OPTION 2 – INCUMBENT ****

TYPE OF POLICY:	COMPREHENSIVE BOILER & MACHINERY		
PROPOSED EFFECTIVE DATE:	11/19/24		
COVERAGE:	 Sudden and Accidental Breakdown of Objects including Pumps, Deep Well Pumps, Motors and Electrical Equipment Mechanical Failure Electrical Surges Production Equipment 		
EXCLUSIONS Including but not limited to:	Rotating Biological Contactors as Objects on all WWTP		
VALUATION:	ENGINEER TO LIST CURRENT REPLACEMENT COST		
COINSURANCE:	Waived		
DEDUCTIBLE:	Direct Damage to the following Covered Equipment:		
	\$35,000 All Pump Installations		
	\$10,000 All Other Boiler & Machinery Equipment, in any one occurrence:		
	Extra Expense: expense caused by direct physical loss or damage to the Covered Equipment shown above:		
LIMITS:	 \$ 9,256,750 \$ 100,000 Electronic Vandalism \$ 500,000 Extra Expense 		
POLICY TERM:	One Year		
PREMIUM:	\$14,619		
COMPANY:	Travelers Property Casualty AM Best Rating: A++ XV		
°СЕРТЕД ВУ∙	DATE		

REJECTED BY: _____DATE:_____

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF POLICY:	COMMERCIAL GENERAL LIABILITY AND HIRED CAR & NON OWNERSHIP AUTOMOBILE LIABILITY
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGE:	 Bodily Injury and Property Damage Full Sewer Backup Coverage Punitive Damages Not Excluded Host Liquor Liability Terrorism Not Excluded No Mold Exclusion No Assault & Battery Exclusion Duty to Defend Defense Cost Outside the Limit Coverage in US Only
LIMITS OF LIABILITY:	 \$1,000,000 Each Occurrence \$3,000,000 General Aggregate \$1,000,000 Personal/Advertising Injury \$3,000,000 Product Liability \$ 100,000 Damages to Premises Rented to You \$1,000,000 Hired and Non Owned Auto Liability INCLUDES: Union Pacific RR contract requirements: "Contractual Liability Railroads" (CG2417) "Additional Insured" (ML1214) "Waiver of Subrogation" "Coverage for Certain Operations in Connection with RR" (CA2070)
POLICY TERM:	One Year
PREMIUM:	\$2,024
COMPANY:	Mid-Continent Casualty Company AM Best Rating: A + VIII
DOES THE DISTRICT HAVE AN INTERLOCAL A IF YES, PLEASI NUMBER OF P THE DISTRICT WILL NEED LAW ENFOR SEE SUMMARY PAGE DOES THE DISTRICT	GREEMENT FOR LAW ENFORCEMENT? YES/NO E SEND A COPY. EACE OFFICERS CEMENT LIABILITY & PEACE OFFICERS BOND FOR ADDITIONAL PREMIUM. OWN ANY ROADS Y/N
ACCEPTED BY:	DATE:
REJECTED BY:	DATE:
SUBJECT TO POLICY TERMS, COND	ITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF POLICY:	POLLUTION LIABILITY
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGE:	 Occurrence Form Legal Liability to Others-Bodily Injury and Property Damage and Clean Up Costs Compensatory Damages Defense Cost Outside the Limit Punitive/Exemplary Damages Not Excluded Terrorism Not Excluded Mold Not Excluded
EXCLUSIONS Including but not limited to:	 Statutory Fines or Penalties Unless Direct Result of Pollution Incident as Defined by the Policy Disposal of Sludge at Landfill Site
LIMIT OF LIABILITY:	\$1,000,000 each occurrence \$3,000,000 aggregate
DEDUCTIBLE:	\$5,000 Per Claim for Clean Up Costs
POLICY TERM:	One Year
PREMIUM:	\$750
COMPANY:	Mid-Continent Casualty Company AM Best Rating: A + VIII

ACCEPTED BY:	DATE:

REJECTED BY:	DATE:

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF POLICY:	DIRECTORS AND OFFICERS LIABILITY
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGE:	 Claims-Made Coverage Form Duty to Defend Pay on Behalf in lieu of Reimbursement Coverage Form Full Prior Acts Defense Cost Outside the Limit Defense for Alleged Breach of Contract Claim includes any Judicial or Administrative Proceedings Employment Related Practices coverage for the District Included Coverage extended to include Director's Spouse Terrorism Not Excluded
LIMIT OF LIABILITY:	\$1,000,000 Per Claim No Aggregate Limit
DEDUCTIBLE:	None
POLICY TERM:	One Year
PREMIUM:	\$1,500
COMPANY:	Mid-Continent Casualty Company AM Best Rating: A + VIII

OPTIONAL LIMITS		
	Limit	Premium
Χ	\$1,000,000	\$1,500
	\$2,000,000	\$2,500
	\$3,000,000	\$3,500
	\$4,000,000	\$4,500
	\$5,000,000	\$5,500

ACCEPTED BY:	DATE:

REJECTED BY:	DATE:

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF POLICY:	EXCESS LIABILITY
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGE:	Limit of Coverage over General Liability, Automobile Liability, Pollution and Employers Liability (If Coverage is Accepted)
	Follow FormTerrorism Not ExcludedPunitive Damages Not Excluded
UNDERLYING REQUIREMENTS:	\$1,000,000 General Liability \$1,000,000 Pollution Liability \$1,000,000 Automobile Liability \$1,000,000 Employers Liability
EXCLUSIONS Including but not limited to:	Employee Benefits Liability Directors and Officers Liability Law Enforcement Liability
LIMIT OF LIABILITY:	\$1,000,000
POLICY TERM:	One Year
PREMIUM:	\$1,600

COMPANY:

Mid-Continent Casualty Company AM Best Rating: A + VIII

OPTIONAL LIMITS		
	Limit	Premium (No Pollution)
	\$ 1,000,000	\$ 900
	\$ 2,000,000	\$1,700
	\$ 3,000,000	\$2,500
	\$ 4,000,000	\$3,300
	\$ 5,000,000	\$4,100

OPTIONAL LIMITS		
	Limit	Premium
	Linnt	(Includes Pollution)
Х	\$ 1,000,000	\$1,600
	\$ 2,000,000	\$2,800
	\$ 3,000,000	\$4,000
	\$ 4,000,000	\$5,200
	\$ 5,000,000	\$6,400

ACCEPTED BY: _____DATE: _____

REJECTED BY:_____DATE:_____

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF POLICY:	PUBLIC EMPLOYEE BLANKET CRIME (Includes Attorney, Operator, Bookkeeper, Engineer and Delinquent Tax Attorney)
ANNIVERSARY OF CURRENT POLICY:	11/19/24
COVERAGE:	Loss caused to the District through failure of any employee/consultant to perform faithfully their duties or to account properly for all monies and property received by virtue of their position or employment. Limit applies per employee/consultant up to \$100,000. If the bond amount is over \$100,000, each employee/consultant is covered up to \$100,000 and the excess amount is provided on a per loss basis rather than each basis.
LIMIT:	\$10,000
DEDUCTIBLE:	\$0
TERM:	One Year
PREMIUM:	\$120
COMPANY:	Hartford Casualty Company AM Best Rating: A+ XV

OPTIONAL LIMITS		
	Limit	Premium
X	\$ 10,000	\$120
	\$ 25,000	\$178
	\$ 50,000	\$222
	\$ 100,000	\$344
	\$ 250,000	\$479
	\$ 500,000	\$580
	\$1,000,000	Quotable

ACCEPTED BY:	DATE:	

REJECTED BY:	DATE:

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS
Ft. Bend Co. FWSD No. 1

TYPE OF BOND:	DIRECTORS POSITION SCHEDULE BOND
ANNIVERSARY OF CURRENT BOND:	11/19/24
COVERAGE:	Provides coverage for loss caused to the District through the failure of Directors to perform faithfully their duties or to account properly for all monies and property received by virtue of their position as Director.
	•Terrorism Not Excluded
BOND TERM:	One Year
BOND LIMIT:	\$10,000 Per Director (5) \$50,000 Aggregate
PREMIUM:	\$175
COMPANY:	Merchants Bonding Company AM Best Rating A VIII

ACCEPTED BY: ______DATE: _____

REJECTED BY: _____DATE:_____

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

TYPE OF BOND:	TAX ASSESSOR/COLLECTOR BOND
ANNIVERSARY OF CURRENT BOND:	11/19/24
COVERAGE:	Covers the faithful performance and discharge of all the duties required by law as the Tax Assessor/Collector and to pay over to the depository of the District all funds or other things of value coming into his hands as Tax Assessor/Collector.
LIMIT:	\$100,000
BOND TERM:	One Year
PREMIUM:	\$500
NAME OF TAX ASSESSOR:	Carmen Turner
COMPANY:	Merchants Bonding Company AM Best Rating: A VIII

OPTIONAL LIMITS		
	Limit	Premium
	\$ 10,000	\$ 50
	\$ 25,000	\$ 125
	\$ 50,000	\$ 250
	\$ 75,000	\$ 375
Χ	\$ 100,000	\$ 500
	\$ 250,000	\$ 1,250
	\$ 500,000	\$ 2,500
	\$ 1,000,000	\$5,000

LIMITS \$50,000 & HIGHER MAY REQUIRE ADDITIONAL UNDERWRITING INFORMATION

ACCEPTED BY: ______DATE: _____

REJECTED BY:	DATE:
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SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

Ft. Bend Co. FWSD No. 1

TYPE OF POLICY:	BUSINESS TRAVEL COVERAGE	
PROPOSED EFFECTIVE DATE:	11/19/24	
COVERAGE:	24 Hour Coverage while traveling on district business Accidental Death & Dismemberment Paralysis Benefits Coma Benefits Psychological Therapy Benefit Emergency Evacuation/Family Travel Benefits Rehabilitation Expense Benefit Repatriation Benefit Seat Belt and Occupant Protection Device Benefit Age reduction for over 70	
LIMITS:	 \$ 250,000 Each Director \$ 50,000 Each Spouse \$ 25,000 Each Child \$35,000,000 Aggregate Limit 	
PREMIUM:	\$300	
COMPANY:	Chubb AM Best Rating: A++ XV	

IF ACCEPTED, PLEASE SEE FOLLOWING PAGE FOR SIGNATURE

DATE		
ACCEPTED BY	(Signature of District's Authorized Representative)	(Title)
REJECTED BY		
	(Signature of District's Authorized Representative)	(Title)
SUBJECT TO	POLICY TERMS, CONDITIONS, LIMITATIONS AN	D EXCLUSIONS

Employee Retirement Income Security Act

Is this plan subject to Employee Retirement Income Security Act (ERISA) regulations? (Y/N) ______N/A

Policy Acceptance

The undersigned declares that all information provided in this application and any attachments hereto is true and correct. The undersigned understands that all information provided in this application and any attachments hereto is material to the insurer's decision to provide this insurance, and that insurance will be provided, at the insurer's sole discretion, in reliance upon the truth of such information. It is hereby agreed and understood this insurance is provided by the **Company** in consideration of payment of the required premium. The insurance under the policy begins on the Effective Date shown in the Insuring Agreement of the policy. The acceptance of the policy terminates any prior policy of the same policy number, effective with the inception of the policy.

Fraud Warning

Any person who, knowingly and with intent to defraud any insurance company or other person, files an application for insurance containing any false information, or conceals for the purpose of misleading, information concerning any material fact thereto, commits a fraudulent insurance act, which is a crime.

Name of Policyholder: Ft. Bend Co. FWSD No. 1

Date

Signature

Title

Company Authorized Representative

BT 3000 APP (Rev. 09/2006)

TYPE OF POLICY:	WORKERS COMPENSATION
PROPOSED EFFECTIVE DATE:	11/19/24
COVERAGES:	•Coverage A in the policy provides statutory coverage in which the insurance company agrees to assume the liability imposed upon an insured by the applicable Workers Compensation law or laws.
	•Coverage B for Employers Liability in this policy protects an insured against liability imposed by law for injury to employees in the course of employment.
	•Terrorism Not Excluded
LIMIT OF LIABILITY:	Employers Liability
	\$1,000,000 Each Accident Bodily Injury by Accident
	\$1,000,000 Each Employee Bodily Injury by Disease
	\$1,000,000 Policy Limit Bodily Injury by Disease <u>INCLUDES</u> : Blanket Waiver of Subrogation
POLICY TERM:	One Year
PREMIUM:	\$298 (5 Directors) Estimated Annual Premi
COMPANY:	Hanover Insurance Group AM Best Rating: A XV
CCEPTED BY:	DATE:
EJECTED BY:	DATE:
ΙΙΒΙΕΛΤ ΤΟ ΒΟΙ ΙΩΥ ΤΕΡΜΆ (ΟΝΝΙ)	TIONS I IMITATIONS AND EYCI USIONS

OPTIONAL COVERAGE PROPOSAL PAGES

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Ft. Bend Co. FWSD No. 1

**** OPTIONAL COVERAGE ****

TYPE OF POLICY:

CYBER LIABILITY

PROPOSED EFFECTIVE DATE:

COVERAGE/LIMIT:

11/19/24

LIABILITY:

- Privacy & Security \$250,000
- Payment Card Costs \$250,000
- Media \$250,000
- Regulatory Proceedings \$250,000

BREACH RESPONSE:

- Privacy Breach Notification \$250,000
- Computer & Legal Experts \$250,000
- Betterment \$100,000
- Cyber Extortion \$250,000
- Data Restoration \$250,000
- Public Relations \$250,000

CYBER CRIME:

- Computer Fraud \$100,000
- Funds Transfer Fraud \$100,000
- Social Engineering Fraud \$100,000
- Telecom Fraud \$100,000

BUSINESS LOSS:

- Business Interruption \$250,000
- Reputation Harm \$250,000

POLICY AGGREGATE LIMIT: \$250,000

\$2,500 - \$5,000 Each Claim/Event Waiting Period: 8 Hours

One Year

PREMIUM:

POLICY TERM:

RETENTION:

COMPANY:

Application required for formal quote

Travelers Casualty & Surety Co. of America AM Best Rating: A++ XV

**** OPTIONAL COVERAGE ****

SEE COVERAGE DEFINITIONS AT END OF PROPOSAL

Higher limits also available

ACCEPTED BY:	DATE:
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REJECTED BY:_____**DATE:**_____

SUBJECT TO POLICY TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS

FT. BEND CO. FWSD NO. 1

PROPOSED EFFECTIVE DATE: 11/19/24

PREMIUM SUMMARY

COVERAGE		RENEWAL PREMIUM	EXPIRING PREMIUM
PROPERTY	(1)	11,825.00	9,407.00
BOILER & MACHINERY (Option 1 – Chubb)	(1)	13,089.00	9,928.00
GENERAL LIABILITY/HIRED & NON-OWNED AUTO		2,024.00	1,979.00
POLLUTION LIABILITY		750.00	750.00
DIRECTORS AND OFFICERS		1,500.00	1,500.00
EXCESS LIABILITY (Includes Pollution)		1,600.00	1,600.00
PUBLIC EMPLOYEE BLANKET CRIME		120.00	120.00
DIRECTOR'S BOND		175.00	175.00
TAX ASSESSOR/COLLECTOR BOND		500.00	500.00
BUSINESS TRAVEL ACCIDENT		300.00	300.00
WORKERS COMPENSATION & EMPLOYERS LIABILIT	Y	298.00	305.00
TOTAL PREMIUM		\$32,181.00	\$26,564.00

McDonald & Wessendorff thanks you for your business!

(1) Total values increased from \$7,725,000 to \$9,256,750

PAID CLAIM: 04/22/22 (Boiler) well motor failure - \$35,525

* * * OPTIONAL COVERAGE(S) * * *

OPTIONAL NEW COVERAGE	PREMIUM	ACCEPTED
		YES/NO
BOILER & MACHINERY (Option 2 – Travelers)	14,619.00	
(TOTAL PREMIUM w/Option 2)	(\$33,711)	
LAW ENFORCEMENT LIABILITY - \$1,000,000	1,000.00	
PEACE OFFICERS BOND (# of Peace Officers:)	35.00 Each (Subject to \$50 minimum)	
CYBER LIABILITY	Request Quote	
TOTAL PREMIUM FOR ACCEPTED OPTIONAL COVERAGE		

PLEASE REPORT ALL NEW FACILITIES OR PROPERTIES IMMEDIATELY TO MCDONALD & WESSENDORFF

PAYMENT IS DUE WITHIN 30 DAYS OF THE EFFECTIVE DATE TO AVOID CANCELLATION.

ACCEPTED BY: _____

PRINTED NAME & TITLE: _____

DATE:

FEDERAL TAX ID #: _____

WEB ADDRESS IF ANY: _____

Premiums quoted are valid for 30 days from proposed effective date.

All descriptions of proposed coverage's provided herein are intended as an outline of coverage and are necessarily brief. For specific wording concerning insuring agreements, definitions, conditions, terms and exclusions not listed, please read each policy carefully. Please contact our office if there are any questions.

TRAVELERS CYBERRISK COVERAGE INCLUDES THE FOLLOWING INSURING AGREEMENTS:

Liability Insuring Agreements:

PRIVACY AND SECURITY Coverage for claims arising from unauthorized access to data, failure to provide notification of a data breach where required by law, failure to destroy confidential information, failure to comply with a privacy policy, wrongful collection of private or confidential information, failure to prevent a security breach that results in the inability of authorized users to gain system access, the participation in a DDoS attack, or the transmission of a computer virus.

MEDIA

Coverage for claims arising from copyright infringement, plagiarism, defamation, libel, slander, and violation of an individual's right of privacy or publicity in electronic and printed content.

REGULATORY

Coverage for administrative and regulatory proceedings, civil and investigative demands brought by domestic or foreign governmental entities or claims made as a result of privacy and security acts or media acts.

Breach Response Insuring Agreements:



PRIVACY BREACH NOTIFICATION

Coverage for costs to notify and provide services to individuals or entities who have been affected by a data breach. Examples include call center services, notification, credit monitoring and the cost to purchase identity fraud insurance.



[\$]

COMPUTER AND LEGAL EXPERTS

Coverage for costs associated with analyzing, containing, or stopping privacy or security breaches; determining whose confidential information was lost, stolen, accessed, or disclosed; and providing legal services to respond to such breaches.

BETTERMENT

Coverage for costs to improve a computer system after a security breach, when the improvements are recommended to eliminate vulnerabilities that could lead to a similar breach.



Coverage for ransom and related costs associated with responding to threats made to attack a system or to access or disclose confidential information.

DATA RESTORATION

Coverage for costs to restore or recover electronic data, computer programs, or software lost from system damage due to computer virus, denial-of-service attack or unauthorized access.



Coverage for public relations services to mitigate negative publicity resulting from an actual or suspected privacy breach, security breach, or media act.

Cyber Crime Insuring Agreements: COMPUTER FRAUD



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Coverage for loss of money, securities, or other property due to unauthorized system access.

FUNDS TRANSFER FRAUD

Coverage for loss of money or securities due to fraudulent transfer instructions to a financial institution.

SOCIAL ENGINEERING FRAUD

Coverage for loss of money or securities due to a person impersonating another and fraudulently providing instructions to transfer funds.



TELECOM FRAUD

Coverage for amounts charged by a telephone service provider resulting from an unauthorized person accessing or using an insured's telephone system.

Business Loss Insuring Agreements:



BUSINESS INTERRUPTION

Coverage for loss of income and expenses to restore operations as a result of a computer system disruption caused by a virus or computer attack, including the voluntary shutdown of systems to minimize the business impact of the event.



DEPENDENT BUSINESS INTERRUPTION

Multiple coverage options for loss of income and expenses to restore operations as a result of an interruption to the computer system of a third party that the insured relies on to run their business.



SYSTEM FAILURE

Coverage for loss of income and expenses to restore operations as a result of an accidental, unintentional, and unplanned interruption of an insured's computer system.



REPUTATIONAL HARM

Coverage for lost business income that occurs as a result of damage to a business' reputation when an actual or potential cyber event becomes public.



Available through the Travelers Wrap+ ® and Executive Choice+® suite of products.

travelers.com

Travelers Casualty and Surety Company of America, One Tower Square, Hartford, CT 06183

This material does not amend, or otherwise affect, the provisions or coverages of any insurance policy or bond issued by Travelers. It is not a representation that coverage does or does not exist for any particular claim or loss under This material does not amend, or otherwise artect, the provisions or coverages of any insurance pointy or bond issues of marcel and to not a certain any such policy or bond. Coverage depends on the facts and circumstances involved in the claim or loss, all applicable policy or bond provisions, and any applicable law. Availability of coverage referenced in this document can depend 21 on underwriting qualifications and state regulations.



As required by Chapter 2271, Government Code, McDonald & Wessendorff Insurance hereby verifies that it does not boycott Israel and will not boycott Israel through the term of the policies included in this proposal. For purposes of this verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes.

Foreign Terrorists Organizations. Pursuant to Chapter 2252, Texas Government Code, McDonald & Wessendorff Insurance represents and certifies that, at the time of execution of this proposal neither McDonald & Wessendorff Insurance, nor any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of the same is a company listed by the Texas Comptroller of Public Accounts under Sections 2270.0201 or 2252.153 of the Texas Government Code.

Fossil Fuels Boycott Verification.

As required by 2274.002, Texas Government Code (as added by Senate Bill 13, 87th Texas Legislature, Regular Session), as amended, McDonald & Wessendorff Insurance hereby verifies that McDonald & Wessendorff Insurance, including any wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of the same, does not boycott energy companies, and will not boycott energy companies during the term of this Agreement. As used in the foregoing verification, "boycott energy companies" shall have the meaning assigned to the term "boycott energy company" in Section 809.001, Texas Government Code, as amended.

Firearms Discrimination Verification.

As required by Section 2274.002, Texas Government Code (as added by Senate Bill 19, 87th Texas Legislature, Regular Session, "SB 19"), as amended, McDonald & Wessendorff Insurance hereby verifies that McDonald & Wessendorff Insurance, including any wholly owned subsidiary, majority owned subsidiary, parent company or affiliate of the same, (i) does not have a practice, policy, guidance or directive that discriminates against a firearm entity or firearm trade association, and (ii) will not discriminate against a firearm entity or firearm trade association during the term of this Agreement. As used in the foregoing verification, "discriminate against a firearm entity or trade association" shall have the meaning assigned to such term in Section 2274.001(3), Texas Government Code (as added by SB 19), as amended.