

**MINUTES OF A REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
HORIZON REGIONAL M.U.D.**

A regular meeting of the Board of Directors of the Horizon Regional M.U.D. was held on Thursday November 18, 2021 at 6:00 p.m. in person and by Teleconference via Zoom. 14100 Horizon Blvd, Horizon City, Texas, pursuant to notice given in accordance with the law.

The roll was called of the members of the board, to-wit:

Gordon, Jarvis	-	President
Dean Hulsey ( <i>absent</i> )	-	Vice President
Florence Thomas	-	Treasurer
Mike Barton	-	Secretary
<i>vacant</i>	-	Assistant Secretary

Director Gordon Jarvis called the meeting to order at 6:00 p.m. A quorum was established. Also attending the meeting were the District's consultants: Account Manager - Charlie McGinnis, Administrative Assistant III - Veronica Saucedo. District Attorney - Alan Petrov. TRE & Associates Inc. - Linda Troncoso, Tom Urrabazo, Frank Ortiz, Ricardo Felix. El Paso Disposal - Lorena Quezada. Horizon Golf & Conference Center - Luis Delgadillo. The Pledge of Allegiance was said with audience participation.

**4. RECEIVE CITIZEN COMMUNICATIONS.**

None

**5. CONSENT AGENDA.**

- A: Consider and Take Action to approve the Minutes of Regular Meeting held on October 28, 2021.
- B: Consider and Take Action to Approve the Payment of Bills and Invoices for Operations and Construction; and to Approve the Transfer of Funds.

- C: Consider and Take Action to Approve the Financial Statement for the Month Ending October 31, 2021.
- D: Consider and Take Action to Approve the Payment of Bills and Invoices for Operations and Construction for Spray Field; and to Approve the Transfer of Funds for Spray Field # 1.
- E: Consider and Take Action on Biglon and Duanesburg Force Main Emergency Replacement Pay Application No. 7.

Motion was made by Director Thomas and seconded by Director Barton to approve the Consent Agenda.

All in favor: 3 ayes.  
Opposed: 0 none

Motion passed to approve.

**6. DISCUSSION ON HORIZON VIEW ESTATES SEWER PROJECT.**

Discussion item only. Ms. Troncoso reported the Texas Water Development Board are still reviewing the environmental document and asked for a summary of the recommended scope since the original alignment for the proposal had shown a lift station and the long force main and TRE's ultimate recommendation was to use the Kenazo Lift Station upgrading so the TWDB requested the document be amended and TRE is in the process of doing that and are hoping to have the document approved by the end of December.

No Action Necessary.

**7. CONSIDER AND TAKE ACTION ON MANAGEMENT REPORT RELATING TO MANAGEMENT AND OPERATIONAL ACTIVITIES OF THE DISTRICT.**

Mr. McGinnis presented and discussed the Water System Report for October 2021.

**See attached report.**

Director Thomas made a motion to approve the Management Report relating to Management and Operational activities of the District to include collections and write offs. This was seconded by Director Barton.

All in favor: 3 ayes.  
Opposed: 0 none

Motion passed to approve.

**8. CONSIDER AND TAKE ACTION ON THE ENGINEERING REPORT RELATING TO CONSTRUCTION AND ENGINEERING ACTIVITIES OF THE DISTRICT.**

Mrs. Linda Troncoso discussed and presented current service commitment applications and construction activity, then presented a summary of the Engineers Report.

**See attached report.**

No action necessary.

**9. CONSIDER AND TAKE ACTION ON MANAGEMENT REPORT RELATING TO MANAGEMENT AND OPERATIONAL ACTIVITES OF SPRAYFIELD No. 1.**

Mr. Luis Delgadillo reported the parking lot was done and looks good. On the financial side they golf course was only open a few weeks and were \$1,000 ahead of budget and overall was \$300 short of budget. Mr. Delgadillo his report shows a loss on the income statement because it was almost a five-week payroll period. On the maintenance side, about \$3,000 was spent on repairs to the back of the clubhouse. Director Jarvis asked Mr. McGinnis if the money spent on the maintenance should be coming out of the budget for 16000 Ashford, Mr. McGinnis replied and stated it should and would pull the charge and stick it in the budget for the maintenance for 16000 Ashford and not in Mr. Delgadillo's

financials. Mr. Delgadillo reported the Bobcat arrived in El Paso and was going to have his groundskeeper Marlon, check it to make sure it was the correct one.

No action necessary.

10. **CONSIDER AND TAKE ACTION ON, IF NECESSARY, RELATING TO THE LEASE WITH MOONLIGHT P&Q, LLC.**

Director Barton spoke to Ms. Zepeda to remind her of the meeting being early due to Thanksgiving, but Ms. Zepeda did not make meeting. Director Barton reported there were no issues to report.

No action necessary.

11. **CONSIDER AND TAKE ACTION ON CHARGE ORDER No. 2 FOR HRMUD WATER SUPPLY WELLS #10 AND #11.**

Ms. Troncoso requested this item be tabled.

Item tabled.

12. **CONSIDER AND TAKE ACTION, IF NECESSARY, ON REQUEST BY DIG DEEP FOR COCHRAN PARK.**

Ms. Troncoso stated there was nothing to report, no action necessary.

No action necessary.

13. **CONSIDER AND TAKE ACTION ON REQUEST BY HCIA FOR SCHOOLS AND PARK PROPERTY REQUEST.**

Ms. Troncoso stated she had received an email from Roxanne Jurado asking to schedule a meeting to talk about those properties.

Item tabled.

14. **CONSIDER AND TAKE ACTION ON WELL 8 REPAIRS.**

Ms. Troncoso reported they had solicited prices for the repair of Well #8 and received two prices, one from WHB Pump Sales LLC and the other from Santa Rosa Well Service LLC. The lowest price received was \$50,000 from WHB and recommends using WHB for the repairs.

Director Thomas made a motion to approve the quote from WHB Pumps in the amount of \$50,000 for the repairs of Well 8 and was seconded by Director Barton.

All in favor: 3 ayes.

Opposed: 0 none

Motion passed to approve.

15. **CONSIDERATION AND TAKE ACTION ON WELL 5 REPAIRS.**

Ms. Troncoso reported they also solicited prices for Well #5 and received two prices, one from WHB Pump Sales LLC and the other from Santa Rosa Well Service LLC. The lowest price received was \$47,300 from WHB and recommends using WHB for the repairs.

Director Thomas made a motion to approve the quote from WHB Pumps in the amount of

\$47,300 for the repairs of Well 5 and was seconded by Director Barton.

All in favor: 3 ayes.

Opposed: 0 none

Motion passed to approve.

16. **CONSIDERATION AND TAKE ACTION ON WELL 3 REPAIRS.**

Mr. Charlie McGinnis reported Well 3 had gone out and when it was taken apart there was not too much damage other than some couplings and some of the shaft. The rubber inserts were the ones that were really damaged. Mr. McGinnis stated they wanted to replace the pump which would cost \$14,250 and to get the well back in service it would be a total of \$21,863. Mr. McGinnis stated he had reached out to other people for pricing, and no one got back to him. Director Jarvis asked how this number compared to similar prices, Mr. McGinnis stated it was a good price.

Director Thomas made a motion to approve the quote from WHB in the amount of \$21,863 and was seconded by Director Barton.

All in favor: 3 ayes.

Opposed: 0 none

Motion passed to approve.

17. **CONSIDER AND TAKE ACTION ON A RESOLUTION DECLARING OFFICIAL INTENT TO REIMBURSE OPERATING FUNDS WITH FUTURE BOND FUNDS FOR THE DIGESTER, DUANESBURG LIFT STATION AND GLO LIFT STATION PROJECTS.**

Mr. Alan Petrov stated the ultimate plan for the three projects was to pay for them out of the next bond issue. He stated that the federal tax laws require a resolution be adopted giving notice of the intent if district plans to bridge payment with operating funds and then pay back

to operating account before it is done.

Director Thomas made a motion to approve the resolution declaring official intent to reimburse operating funds with future bonds and was seconded by Director Barton.

All in favor: 3 ayes.

Opposed: 0 none

Motion passed to approve.

**18. EXECUTIVE SESSION, AS NECESSARY.**

No items.

No Action Necessary.

**19. REPORTS AND DISCUSSION OF OTHER MATTERS THAT MAY COME BEFORE THE BOARD.**

Director Jarvis mentioned the Engineering Committee had met with a person sent by Inframark to talk about solar power and what it takes to convert the RO plant to solar. He stated he was not ready to recommend or sign anything and neither was Director Thomas. Director Jarvis stated he still wanted to keep looking into alternative energy possibilities.

There being no further business before the Board, the meeting was upon motion made by Director Thomas and seconded by Director Barton all in favor and carried, adjourned at 7:00 p.m.

**READ, APPROVED AND ADOPTED THIS 16<sup>th</sup> DAY OF DECEMBER 2021.**



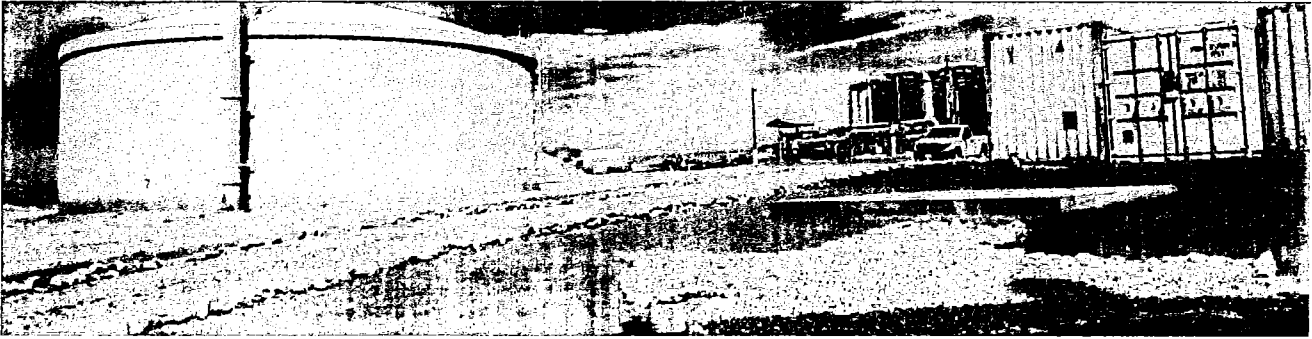
**GORDON JARVIS, PRESIDENT**  
**Board of Directors**  
**Horizon Regional M.U.D.**



**MIKE BARTON, SECRETARY**  
**Board of Directors**  
**Horizon Regional M.U.D.**

**CM/VS**





**Horizon Regional MUD  
General Manager Reports for the month of  
October 2021  
Board Meeting Date: 11-18-2021**

Reviewed By: Carlos McGinnis  
Date: 11-18-2021



Inframark LLC  
14100 Horizon Blvd, Horizon  
City, TX 79928  
United States  
[www.inframark.com](http://www.inframark.com)

## Current Items Requiring Board Approval

Vendor	Amount	WO#	Budget Amount	Description

**Date:** 11/18/2021

**Memorandum for:** Board of Director's Horizon Regional MUI

**From:**

**Subject:** General Manager's Executive Summary Report

Below is a summary of activities since the last board meeting:

**1) Wastewater Treatment Plant**

- a) Digesters are getting awaiting to bid out
- b) We are waiting for parts to be delivered for Main Bar Screen.

**2) Distribution System – Billing**

- a) Replaced 100 residential meters
- b) Repaired 12 streets and 5 meter leaks

**3) Collection System**

- a) Bain Construction is preparing to remove old A/C Lines for Biglon and Duanesbu
- b) Bain Construction is working on the new lift station for the Catholic church

**4) Ponds**

- a) Atomizers are running.

**5) Construction**

- a) Smithco is working on Well 11
- b)

**6) Customer Care**

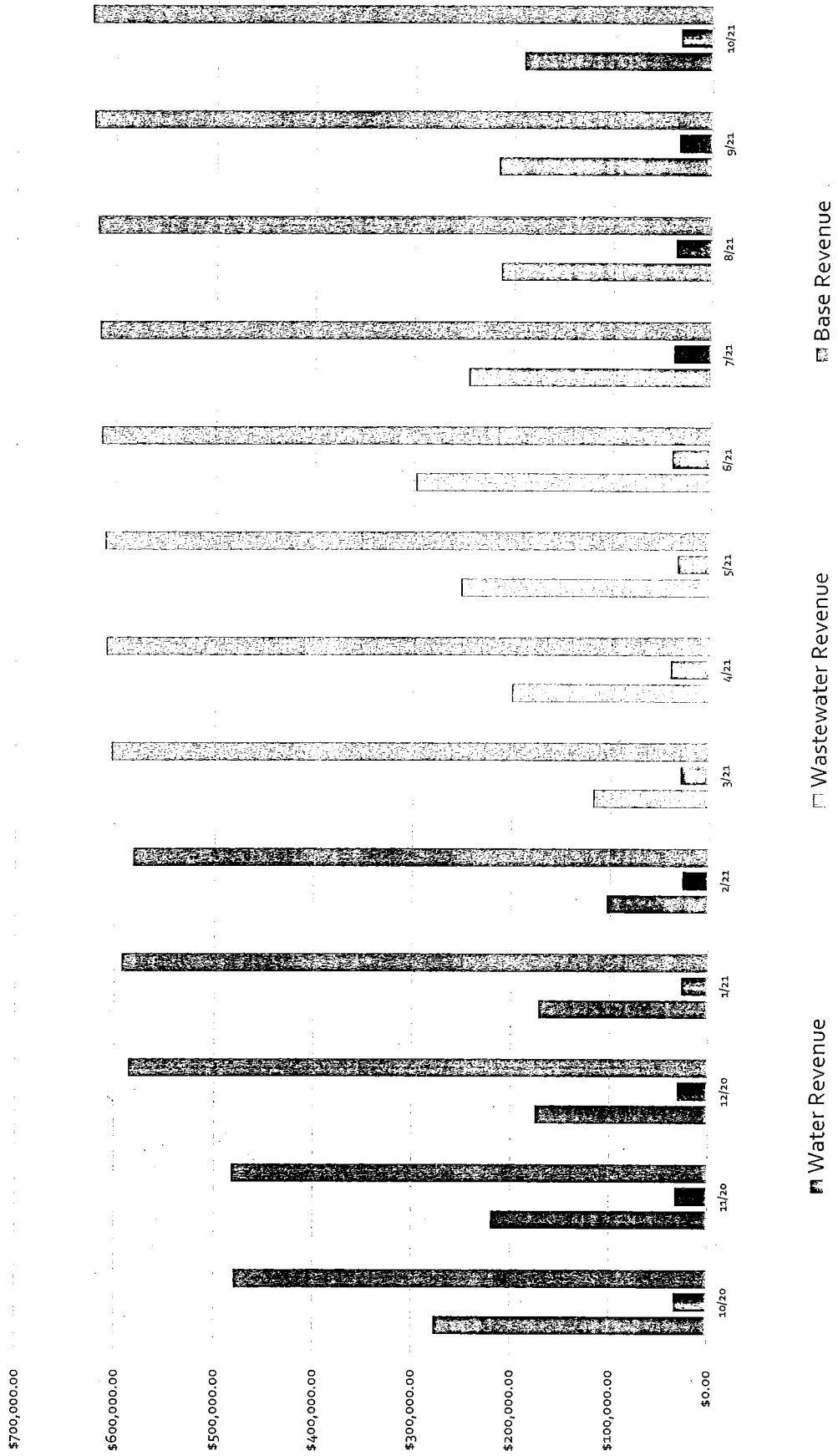
- a) Assisted 11 Customers with payment plans.
- b) 266 Disconnections were done in October



**Billing Summary**

Description	Connections	
	Oct-20	Oct-21
Residential	11,326	11,927
Commercial	248	247
Irrigation	54	54
School	20	20
Municipal	16	16
Church	12	12
Bulk Meter	20	27
<b>Total Number of Accounts Billed</b>	<b>11,696</b>	<b>12,303</b>
	<b>Consumption</b>	
Residential	85,091,600	78,361,900
Commercial	6,994,500	5,468,700
Irrigation	3,739,200	3,800,300
School	679,100	1,047,500
Municipal	1,580,000	696,300
Church	278,800	509,700
Bulk Meter	1,547,000	4,232,100
<b>Total Gallons Consumed</b>	<b>99,910,200</b>	<b>94,116,500</b>
	<b>Average Consumption</b>	
Residential	7,513	6,570
Commercial	28,204	22,140
Irrigation	69,244	70,376
School	33,955	52,375
Municipal	98,750	43,519
Church	23,233	42,475.00
Bulk Meter	77,350	156,744
<b>Avg Water Use for Accounts Billed</b>	<b>8,542</b>	<b>7,650</b>
Total Billed	\$ 809,732	\$ 851,059
Total Aged Receivables	\$ 920,203	\$ 877,714
Total Receivables	\$ 1,729,935	\$ 1,728,773

# 12 Billing Month History Revenue by Category

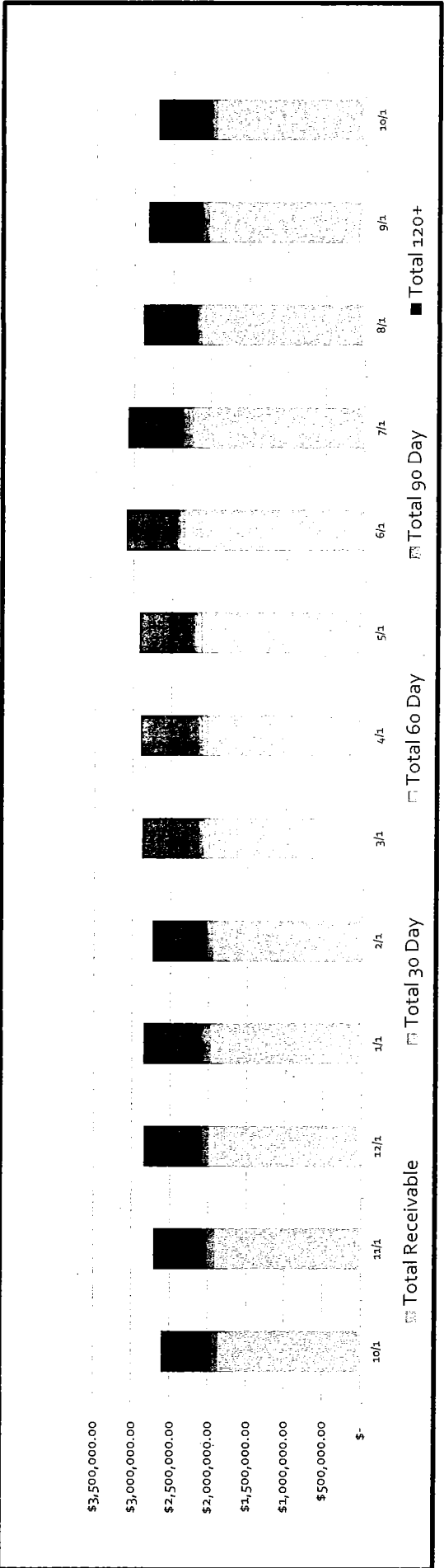


Water Revenue

Wastewater Revenue

Base Revenue

# 12 Month Accounts Receivable and Collections Report



Date	Total Receivable	Total 30 Day	Total 60 Day	Total 90 Day	Total 120+
Oct-20	\$ 1,650,141.76	\$ 203,947.29	\$ 98,325.44	\$ 49,350.25	\$ 599,167.07
Nov-20	\$ 1,729,935.25	\$ 175,058.62	\$ 106,151.43	\$ 69,194.84	\$ 629,952.91
Dec-20	\$ 1,770,411.56	\$ 207,832.94	\$ 108,237.68	\$ 71,753.10	\$ 681,133.00
Jan-21	\$ 1,786,862.11	\$ 172,835.92	\$ 101,402.21	\$ 60,325.89	\$ 726,213.52
Feb-21	\$ 1,722,490.80	\$ 214,525.76	\$ 82,699.56	\$ 53,867.48	\$ 665,301.95
Mar-21	\$ 1,766,831.02	\$ 207,653.81	\$ 91,445.80	\$ 55,281.36	\$ 751,717.92
Apr-21	\$ 1,838,872.28	\$ 171,883.21	\$ 75,000.39	\$ 49,451.85	\$ 759,714.51
May-21	\$ 1,873,653.31	\$ 221,893.33	\$ 72,858.73	\$ 33,999.47	\$ 717,874.28
Jun-21	\$ 1,987,359.25	\$ 333,419.13	\$ 84,947.49	\$ 25,810.47	\$ 667,246.17
Jul-21	\$ 1,954,940.89	\$ 261,632.63	\$ 147,880.14	\$ 45,113.02	\$ 668,494.70
Aug-21	\$ 1,830,971.29	\$ 284,363.90	\$ 67,383.97	\$ 35,218.35	\$ 665,609.02
Sep-21	\$ 1,799,321.15	\$ 219,560.23	\$ 91,062.29	\$ 32,337.27	\$ 678,542.81
Oct-21	\$ 1,728,773.18	\$ 186,754.08	\$ 69,973.17	\$ 36,193.65	\$ 674,288.07

Board Consideration to Write Off \$72.85  
 Board Consideration Collections \$12,040.39  
 Delinquent Letter Mailed 1120  
 Delinquent Tags Hung N/A  
 Disconnects for Non Payment 266



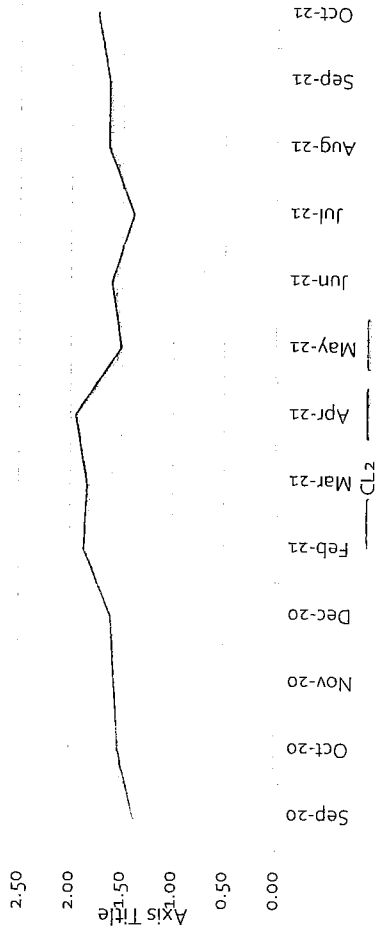
# Water Production and Quality

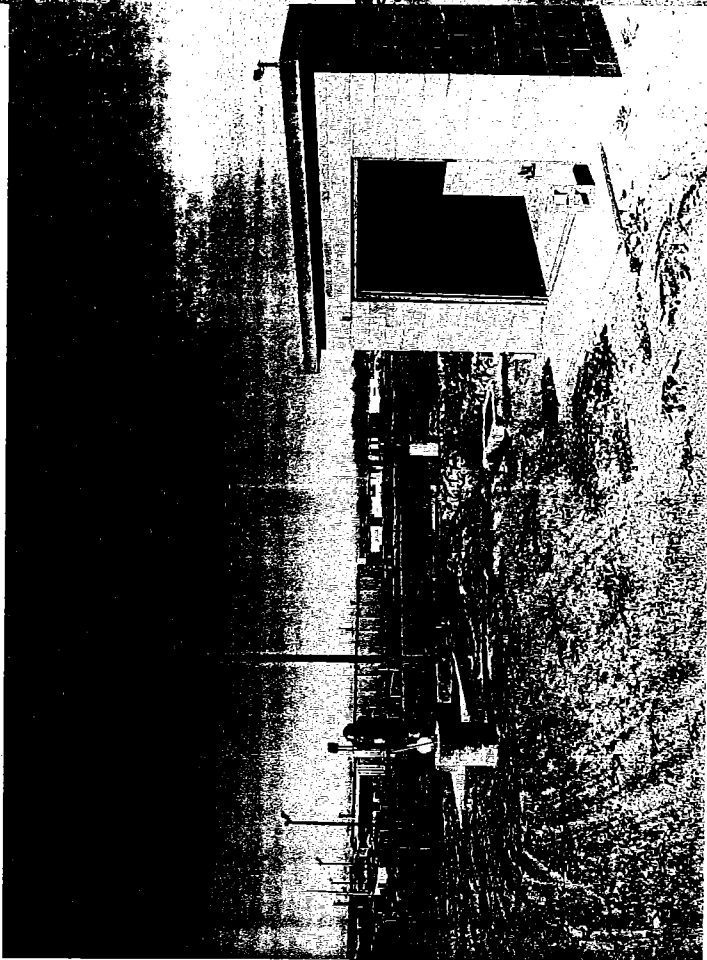
## Water Quality Monitoring

Current Annual CL2 Avg

Requirements	Min .02
Date	CL2
Sep-20	1.35
Oct-20	1.50
Nov-20	1.54
Dec-20	1.58
Feb-21	1.84
Mar-21	1.81
Apr-21	1.93
May-21	1.49
Jun-21	1.58
Jul-21	1.37
Aug-21	1.61
Sep-21	1.61
Oct-21	1.73

CL2 - Free





Pictures of Well 11 Progress and new Atomizer



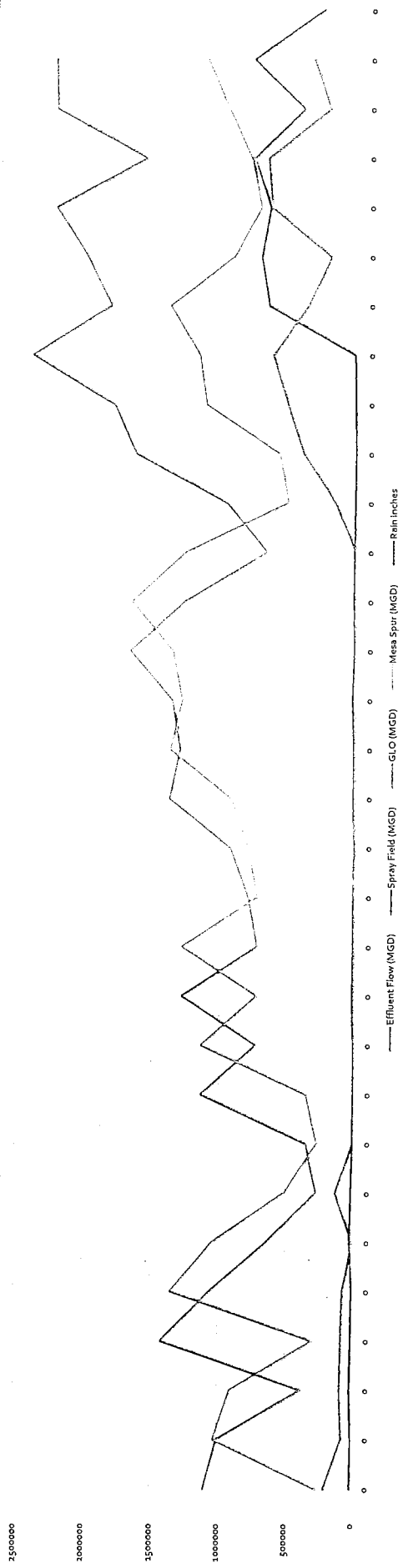
Month	Meeting Date	Connection Total	Pumped Water	Sold (1000)	Flushing/District	Gal.s Loss (-)	Water loss %
October 20	11/19/2020	11644	192,769	120,141	55,210	25,130	12.4%
November 20	12/17/2020	11635	188,270	124,854	50,010	23,943	14.7%
December 20	1/28/2021	11723	173,568	94,483	35,000	18,393	13.3%
January 21	2/25/2021	11724	168,294	78,265	50,010	24,174	10.6%
February 21	3/25/2021	11825	162,714	70,544	45,050	20,283	14.4%
March 21	4/25/2021	11863	160,099	72,542	45,000	20,283	12.5%
April 21	5/27/2021	11958	198,067	102,131	35,000	15,598	9.7%
May 21	6/24/2021	11994	227,874	99,048	55,200	21,815	12.5%
June 21	7/22/2021	12065	150,880	133,333	10,000	35,315	15.5%
July 21	8/26/2021	12122	152,172	118,239	20,000	13,933	9.0%
August 21	9/23/2021	12233	163,518	105,556	40,000	17,962	11.0%
September 21	10/28/2021	12291	139,733	101,250	25,000	13,483	9.6%
October 21	11/18/2021	12303	138,828	94,116	30,000	14,712	10.0%



# Wastewater Production and Quality



## Wastewater Flows for the Month of October 2021



**Wastewater Treatment Permit Summary - Month of October 2021**

	DISCHARGE	EFF.	ACTUAL	COMPLIANT	PERCENT
Avg. Treated Flow	MGD	3	1.242	Yes	41.4%
Avg. Sprayfield Flow	MGD	3	0.139	Yes	4.6%
Avg. GLO Flow	MGD	3	0.161	Yes	5.4%
Avg. Mesa Spur Flow	MGD	3	0.943	Yes	31.4%
Avg. Other Flow			0.001	N/A	
Avg. cBOD	mg/L	10	5.9	Yes	
Avg. TSS	mg/L	15	5.4	Yes	
Avg. Ammonia Nitrogen NH <sub>3</sub>	mg/L	3	0.50	Yes	
Avg DO	mg/L	7.77	6.65	Yes	
E. coli Bacteria	CFU	126	5.0	Yes	
MIN. PH	STD UNITS	6.0	6.40	Yes	
MAX. PH	STD UNITS	9.0	8.01	Yes	

only applies if discharge

# HR MUD WWTP Lab Results

		Effluent Outfalls 2 & 3														
		Influent														
Date	BOD mg/l	pH	S.U	TSS mg/l												
					DO mg/l	pH	TSS mg/l	TSS Lbs/Day	NH <sub>4</sub> NO <sub>3</sub> mg/l	NH <sub>4</sub> NO <sub>3</sub> Lbs/Day	CBOD mg/L	CBOD Lbs/Day	Free Cl <sub>2</sub> Res mg/l	E.Coli MPN	Flow MGD	
10/1/2021			7.5											2.64	2	0.07244
10/2/2021														2.66		0.098145
10/3/2021						8.01								2.88		0.085159
10/4/2021			7.9											1.61	7.5	0.071197
10/5/2021	266		7.4	702	6.7		<5	<5.6	0.504	0.00	3.2	3.60		2.1	3	0.018179
10/6/2021			7.5											2.8	8.6	0.134933
10/7/2021	214		7.2	110	6.4		5.1	0.2	0.504	0.02	2.2	0.07		1.81	6.3	0.00369
10/8/2021			6.9											1.96	6.3	0.000007
10/9/2021														2.63		0.000957
10/10/2021						6.7								2.13		0.007102
10/11/2021			6.5											2.19	<1	0.004025
10/12/2021	248		6.9	252	6.6		<5	<0.2	<0.5	<0.02	<2	<0.07		2.58	7.5	0.004409
10/13/2021			6.7											1.84	3	0.000083
10/14/2021	284		7.3	206	6.6		<5	<0.2	<0.5	<0.02	<2	<0.09		2.83	13.2	0.005309
10/15/2021			7.4											1.76	2	0.005673
10/16/2021														3.36		0.016241
10/17/2021						6.4								1.79		0.004642
10/18/2021			6.4											2.03	<1	0.010881
10/19/2021	184		6.16	172	6.7		<5	<0.3	<0.5	<0.03	<2	<0.12		3.19	<1	0.007159
10/20/2021			7											3.05	<1	0.154705
10/21/2021	408		7.2	296	6.6		5.6	18.3	<0.5	<1.63	12.4	40.46		3.02	3.1	0.391249
10/22/2021			7.4											2.7	4.1	0.517856
10/23/2021														1.89		0.629246
10/24/2021						7.11								2.98		1.007333
10/25/2021			6.9											1.73	1	0.901945
10/26/2021	221		6.9	132	6.7		<5	<53	<0.5	<5.3	<2	<21.21		2	<1	1.271668
10/27/2021			6.4											3.02	5.2	1.426221
10/28/2021	170		6.9	174	6.9		<5	<25.1	<0.5	<2.51	<2	<10.02		1.54	6.3	0.600906
10/29/2021			7.9											2.67	1	1.097804
10/30/2021														1.79		0.605959
10/31/2021														1.43		1.115408
Min	170		6.16	110	6.4		<5	<0.2	<0.500	<0.02	<2	<0.07		1.43	<1	0.000007
Max	408		7.9	702	6.9		8.01	18.3	0.504	0.02	12.4	40.46		3.36	13.2	1.426221
Avg	249.4		7.0648	256	6.65		7.06	9.2	0.504	0.01	5.93	14.71		2.373	5.0	0.305171

# Inframark

## Leak Report for October 2021

Address	Date	Street	Meter	Repaired	Comments
701 Blake	10/4/2021		x	x	Replaced mtr valve
14359 Desert Sunset	10/4/2021	x		x	New copper line
484 Hollywood	10/8/2021	x		x	New copper line
14763 Calhoun	10/11/2021		x	x	Replaced mtr valve
14300 Desert Shadow	10/12/2021	x		x	New copper line
14329 Desert Point	10/12/2021	x		x	New copper line
749 Desert Ash	10/14/2021	x		x	New copper line
13957 Bloom Desert	10/15/2021	x		x	New copper line
14300 Desert Shadow	10/20/2021	x		x	New copper line
311 Golf View	10/25/2021	x		x	New copper line
14309 Desert Wind	10/26/2021	x		x	New copper line
629 Paseo de Flor	10/27/2021	x		x	New copper line
13748 Paseo de Vida	10/27/2021		x	x	Replaced mtr valve
373 Brill	10/28/2021		x	x	Replaced mtr valve
14312 Desert Wind	10/28/2021	x		x	New copper line
752 Maravillas	10/29/2021		x	x	Replaced mtr valve
13432 Page Ct	10/20/2021	x		x	New copper line

Street leaks 12

Meter leaks 5

Total leaks 17

**Date: November 11, 2021**

**Re: Operations Report for October 2021**

**Lift Stations**

<u>Barrel Cactus Lift Station</u>	Fully operational.
<u>Benton Lift Station</u>	Fully operational.
<u>Biglon Lift Station</u>	Fully operational
<u>Duanesburg Lift Station</u>	Running on one pump and skid pump as back-up
<u>Ellsworth Lift Station</u>	Fully operational.
<u>El Paso Hills Lift Station</u>	Fully operational.
<u>El Paso Hills Relay Station</u>	Fully operational.
<u>El Paso Hills Lift Station #2</u>	Fully operational.
<u>Horizon Lift Station</u>	Fully operational.
<u>Kenazo Lift Station</u>	Fully operational
<u>Notre Dame List Station</u>	Fully operational.
<u>Manor 9 Lift Station</u>	Fully operational.
<u>Section 32 Lift Station</u>	Fully operational
<u>Veny Webb Lift Station</u>	Fully operational
<u>Woodale Lift Station</u>	Fully operational.

**Tanks**

<u>GST 1</u>	Online as reserve storage for the distribution system.
<u>GST 2</u>	Online as primary pumping station and water supply for the distribution system.
<u>GST 3</u>	Online with the distribution system.
<u>GST 4</u>	Online with the distribution system.
<u>GST 5</u>	Online with the distribution system.
<u>RWT #1</u>	Online and feeding the RO plant.
<u>EST 1</u>	Online with the distribution system.
<u>EST 2</u>	Online with the distribution system.
<u>EST 3</u>	Online with the distribution system.
<u>EST 4</u>	Online with the distribution system.

**Wastewater Treatment Plant**

- 5 blowers are up and running.
- Waiting on transmission for ~~BA~~ **BOR GLACEN**.
- Hauled 18 loads of sludge

## **Water Wells**

Well #5 pulled and ran camera

Well #8 pulled and ran camera

Booster Pump Stations.

## **Pump Station 3**

Operational.

## **Pump Station 4 Distribution**

Operational.

## **Pump Station (RAW)**

Operational.

## **RO Plant**

All concentrator trains are up and running at 43%

RO Plant all trains up and running

R.O. Ponds

New Atomizers running no issues.

1<sup>ST</sup> Set of Atomizers running. E-3 replacing motors/pumps.

David Munoz Inframark

**For October 2021**

DAY	TOTAL INFLUENT	EFFLUENT PUMPAGE			TOTAL EFFLUENT
		SPRAY FIELD	GLO	MESA SPUR DRAIN	
1	2,985,000	6,476	207,000	261,800	475,276
2	1,151,000	1,440	71,000	1,023,200	1,095,640
3	1,910,000	12,145	86,000	900,900	999,045
4	2,152,000	5,159	80,000	290,800	375,959
5	1,969,000	1,197	70,000	1,345,400	1,416,597
6	1,903,000	18,179	0	1,041,100	1,059,279
7	1,963,000	8,933	126,000	503,000	637,933
8	2,366,000	690	3,000	265,400	269,090
9	1,741,000	7	0	346,200	346,207
10	2,163,000	957	0	1,128,300	1,129,257
11	2,359,000	7,102	0	716,800	723,902
12	2,227,000	4,025	0	1,267,500	1,271,525
13	1,653,000	4,409	0	711,000	715,409
14	1,784,000	83	0	782,100	782,183
15	2,103,000	5,309	0	910,400	915,709
16	1,603,000	5,673	0	1,358,800	1,364,473
17	2,854,000	16,241	0	1,275,400	1,291,641
18	1,095,000	4,642	0	1,343,200	1,347,842
19	2,661,000	10,881	0	1,646,800	1,657,681
20	2,561,000	7,159	0	1,252,000	1,259,159
21	1,995,000	3,705	151,000	499,800	654,505
22	1,754,000	1,249	390,000	561,500	952,749
23	1,620,000	5,856	512,000	1,105,900	1,623,756
24	2,084,000	11,246	618,000	1,161,100	1,790,346
25	2,639,000	645,333	362,000	1,371,500	2,378,833
26	2,754,000	705,946	196,000	907,100	1,809,046
27	1,804,000	640,668	631,000	710,300	1,981,968
28	2,468,000	765,221	661,000	784,500	2,210,721
29	1,286,000	390,906	210,000	950,200	1,551,106
30	2,558,000	768,804	329,000	1,110,800	2,208,604
31	2,131,000	256,959	297,000	1,663,600	2,217,559
	64,296,000	4,316,600	5,000,000	29,196,400	38,513,000

Percent of permitted to Spray Field 27.8%

Percent of permit to GLO 16.1%

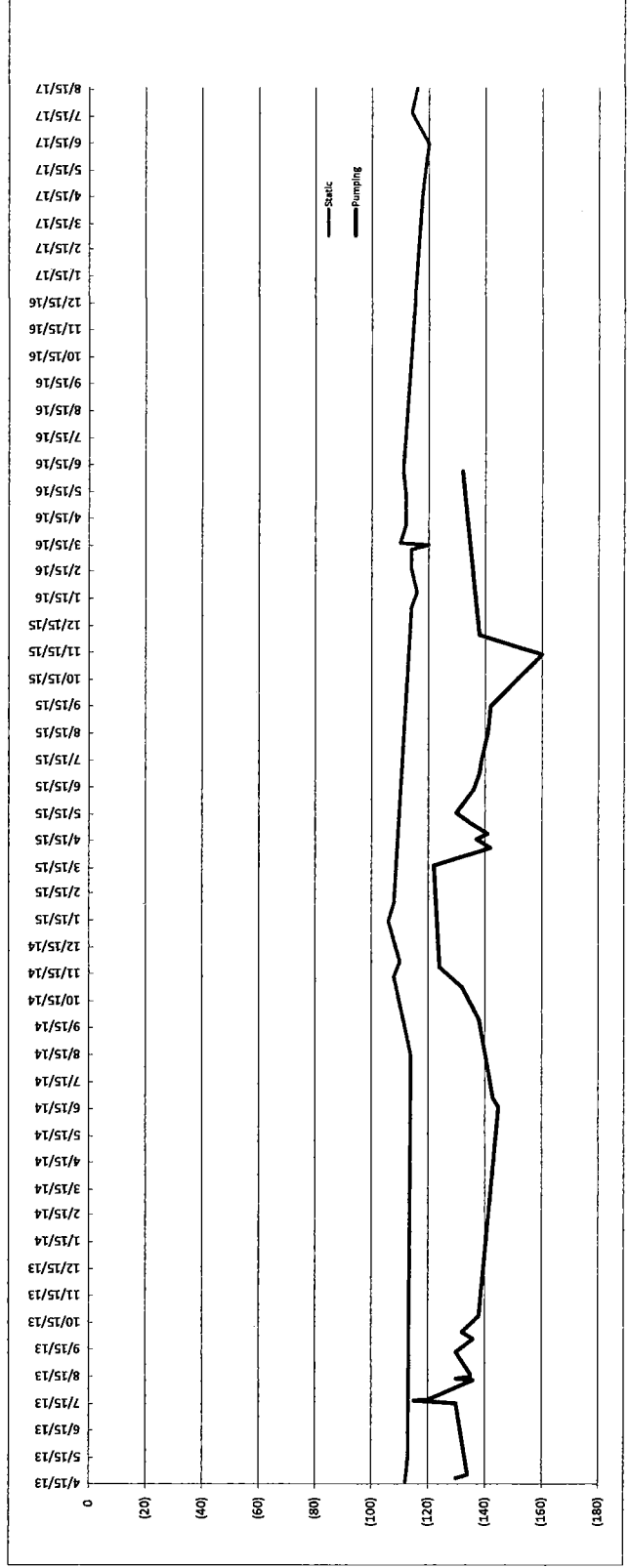
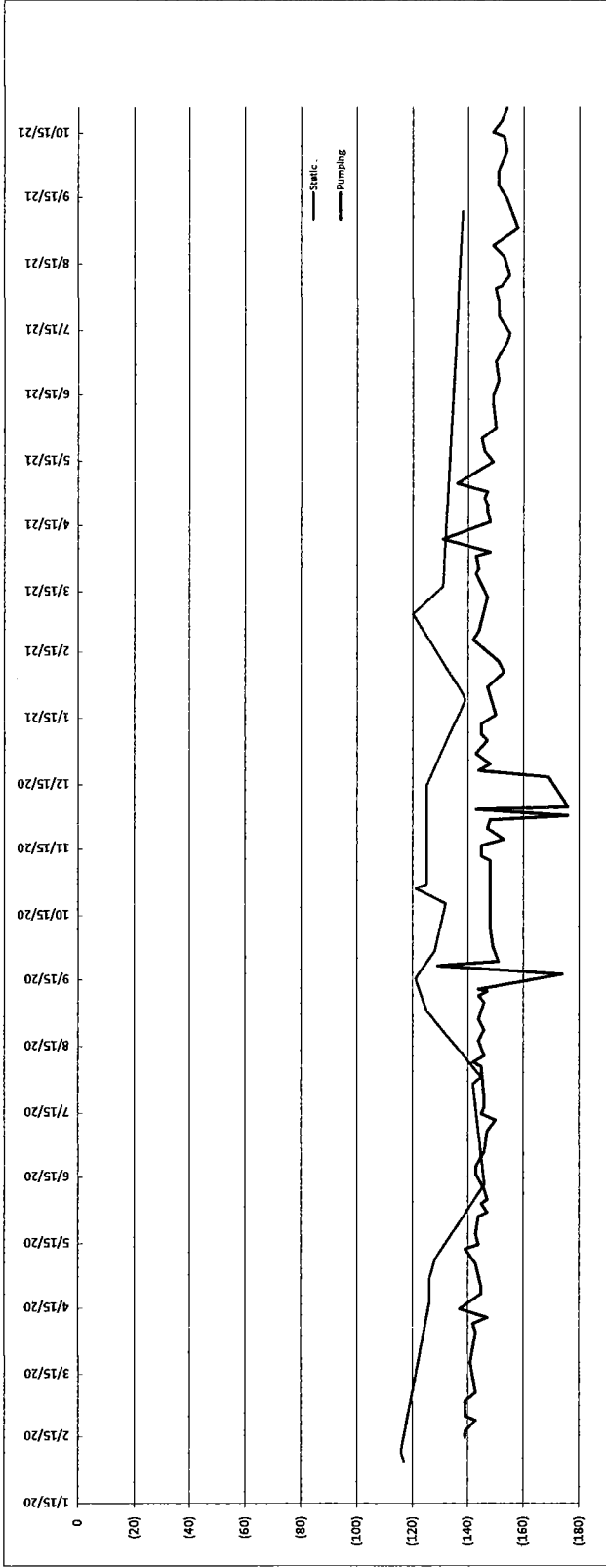
Percent of permitted effluent from STP 41.4%

Percent of permitted effluent to Mesa Spur Drain 32.4%

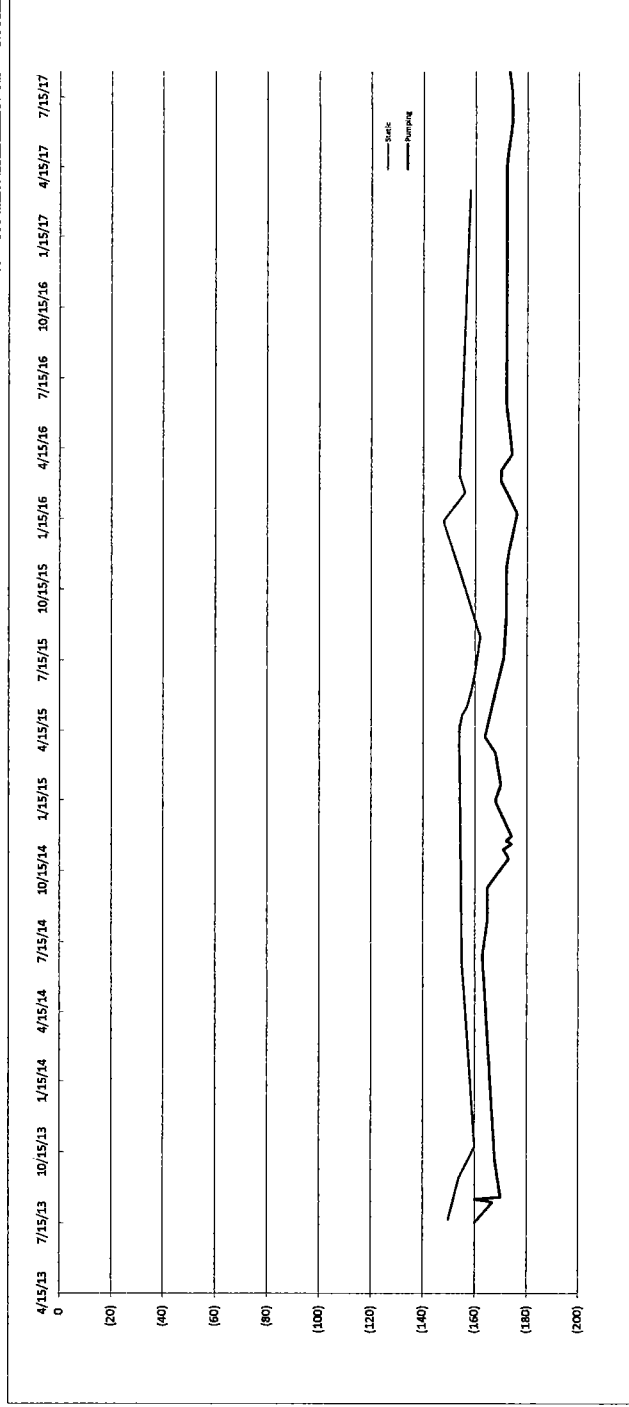
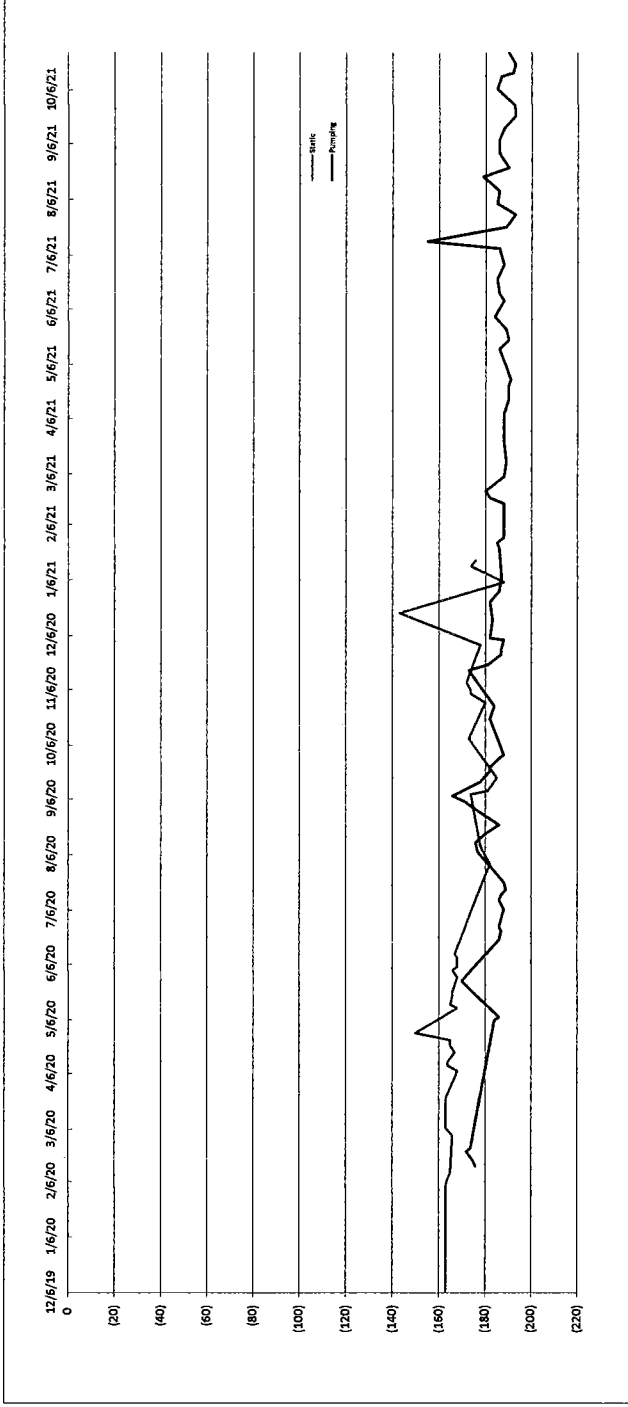
average treated Effluent 124240000.0%



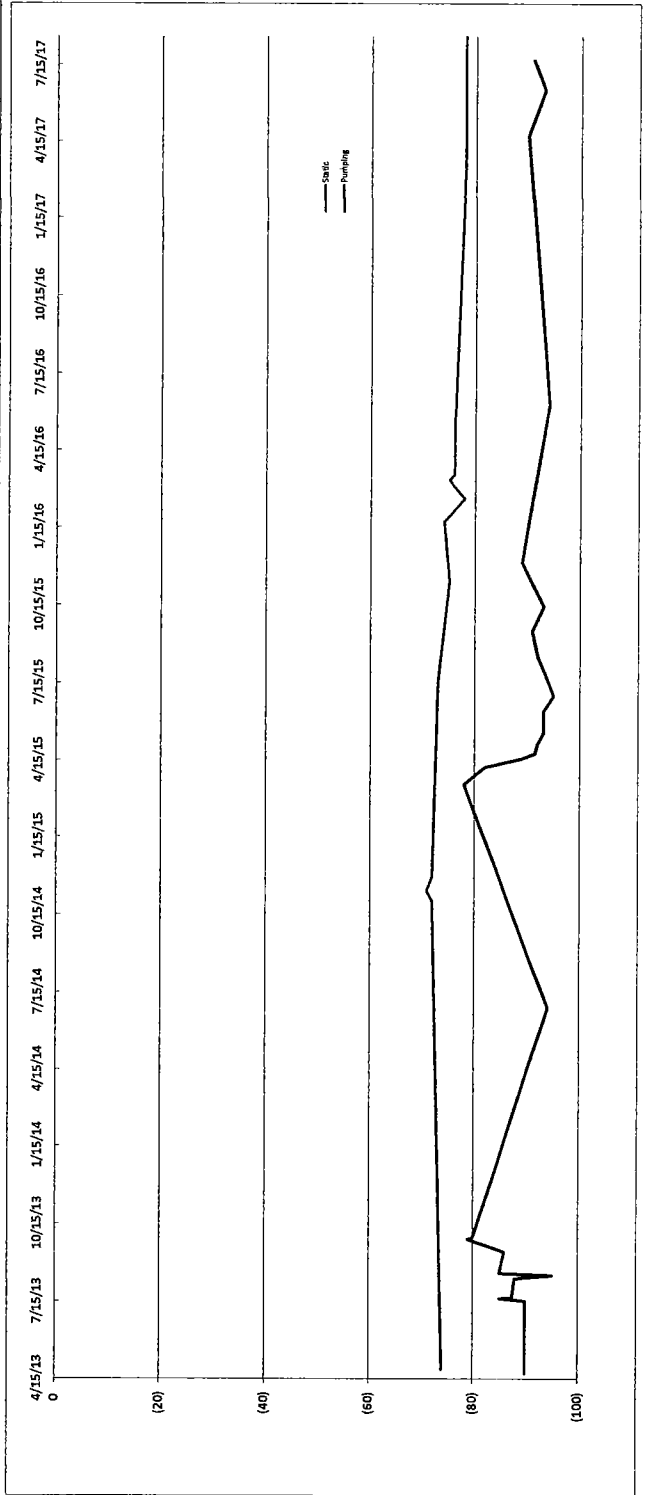
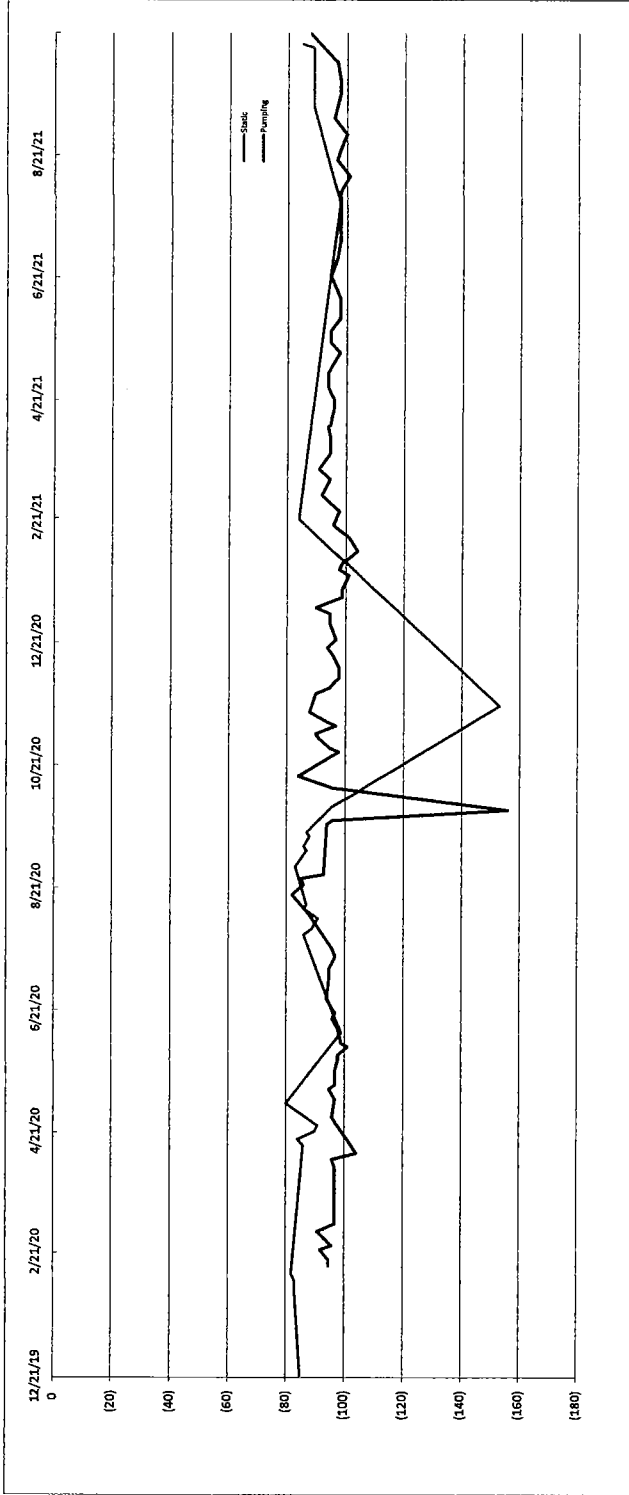
# Well 1B



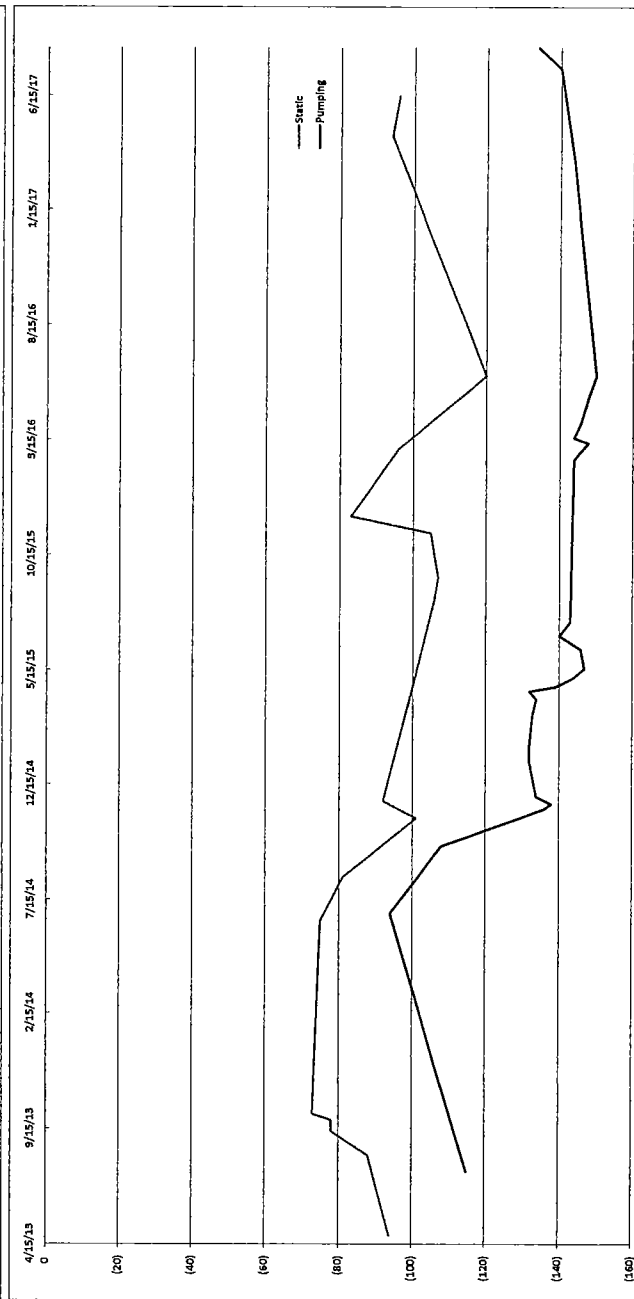
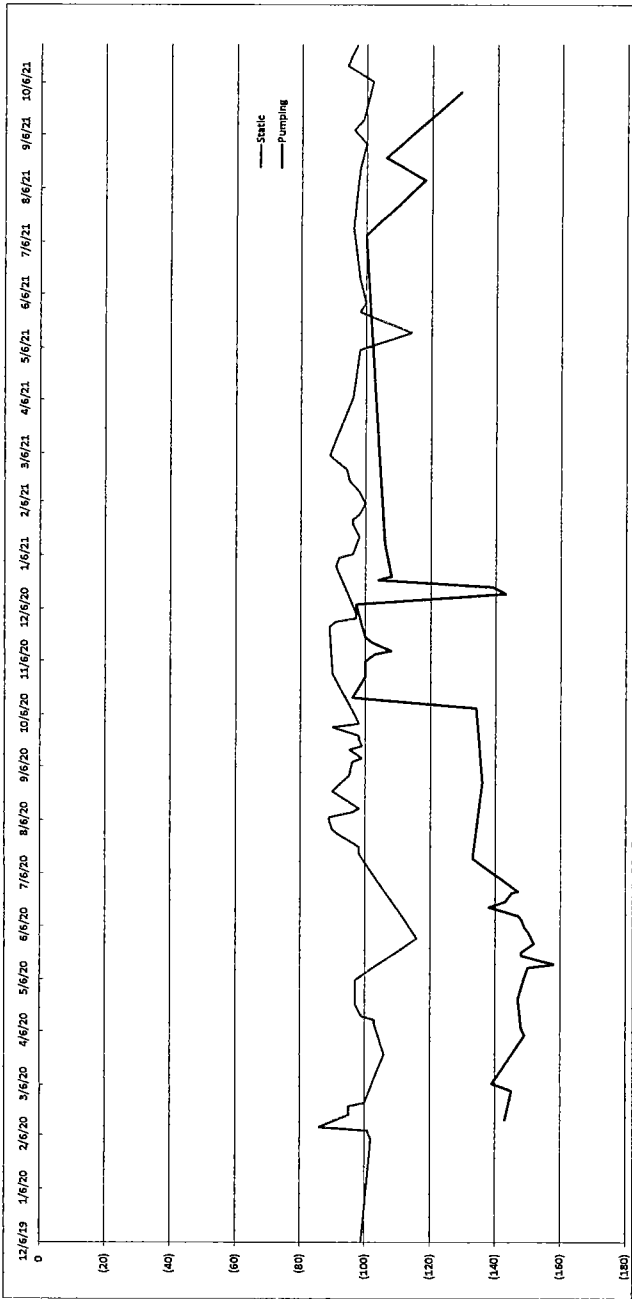
# Well 4A



# Well 6



# Well 8





Engineering Solutions

**MEMORANDUM**

**Via E-Mail**

**TO:** Horizon Regional Municipal Utility District  
Board of Directors

**FROM:** Linda Troncoso, P.E.

**DATE:** November 18, 2021

**SUBJECT:** November 18, 2021 Board Meeting  
Engineer's Report  
TRE Job No.: 1277-7388-54

---

The following is a brief summary of the major activities that TRE & Associates, LLC. (TRE) has been involved in since the District's last regular Board meeting.

**Service Commitments Currently Under Review**

See attached summary.

**Plans Under Review**

See attached summary.

**Projects Under Construction**

See attached summary.

**Horizon City Roadway Projects**

TRE is continuing to coordinate with the Town of Horizon on future roadway widening and rehabilitation projects. Regular meetings are now being held to discuss upcoming projects including the potential TIRZ and the improvements on both Darrington and Pawling/Oxbow.

**County Roadway Projects**

Coordination with the County and the Camino Real Regional Mobility Authority is ongoing for upcoming projects.

**Elevated Storage Tanks and Water Model Update**

Contracts are being finalized and the preconstruction meeting is currently being scheduled to accommodate an NTP the first week of December.

### **Two Water Wells for RO Supply**

The pumps have been set in Well Nos. 10 and 11. EPE is currently awaiting the re-approval of the TxDOT permit to begin power installation. Well No. 10 start up occurred two weeks ago and minor modifications are being made at the site now. New pricing for rock walls is pending for the presentation of Change Order No. 2.

### **4.2 MGD RO Plant Expansion and Permit Amendment**

The design survey is complete and the components for the new RO plant will be designed in conjunction with the evaluation for RO concentrate disposal. The General Permit for the RO Plant is approved. At the engineering committee meeting, it was determined that the design for the plant should proceed at this time with an upgraded treatment process to allow for varying source water quality and concentrate production.

### **RO Concentrate Disposal Management**

TRE received the permitting parameter list from the TCEQ on November 12, 2021. The modeler of the PSB's injection well has joined the team to prepare the plume modeling as part of the submittal package which is still targeted to be submitted for permit approval by the end of the year. A pre-submittal meeting is being scheduled at this time with the TCEQ for the first week in December.

The second E3 system have been installed and all electrical improvements has been completed.

### **Wastewater Treatment Plant Expansion Design and Major Permit Amendment**

TRE has initiated the design and is working with Inframark regarding specification, design, and integration of necessary components. The design survey is complete. The new wastewater treatment plant permit was issued on September 3, 2020. TRE is currently evaluating the cost benefits of the two WWTP location alternatives for review by the BOD at a future workshop.

### **Wheeler Well No. 8 and 5 Rehabilitation**

Well Nos. 5 and 8 were pulled this week and a video log was received on Thursday, October 28, 2021. TRE solicited pricing for the repairs based upon a specific scope for the repairs. The recommendation of award for each well is on the BOD agenda for this meeting.

### **Duanesburg Force Main Emergency Repair**

Bain Construction has completed the repaving and is pending the demolition and disposal of the existing AC force main in Horizon Boulevard. Pay Estimate No. 7 is on the agenda for approval at this meeting.

**Duanesburg Lift Station Rehabilitation**

TRE has completed the evaluation the cost difference between a package lift station replacement and rehabilitation of the existing lift station. It has been determined that the lift station will be rehabilitated in lieu of replacement. The design survey has been received and the plans for the rehab have been initiated.

**Wastewater Treatment Plant Digester Emergency Repair**

Inframark has placed the digester back online. TRE is completing the plans and specifications to bid the repair of the digesters. The project is advertised on November 20, 2021 for award at the December BOD meeting.

Linda Troncoso will be at the November BOD meeting to address any questions or comments you may have regarding these and any other items.

Attachment

cc: Mr. Charlie McGinnis, General Manager; HRMUD  
Mr. John M. Jansing, Jr., P.E.; TRE & Associates, LLC  
Mr. Adrian H. Rosas, P.E.; TRE & Associates, LLC

**TRE & ASSOCIATES, LLC (revised 11/11/21)**  
**COMMITMENT APPLICATIONS**

<b>Job #</b>	<b>Job Title</b>	<b>Date Received</b>	<b>Additional Info Request</b>	<b>Commitment Letter Released</b>	<b>Committed LUE's WW</b>	<b>Committed LUE's Wtr</b>	<b>Comments</b>
1277-12051	Richard Zelt - 9 lots	8/24/2021		9/30/2021		9	approved
1277-12099	Horizon City Unit 91 - 6 lots	7/20/2021			0	6	approved
1277-12120	Darrington Eastlake Commerical Unit Four	10/11/2021		11/10/2021	33	33	approved
1277-12134	Jack in the Box - 13640 Horizon Blvd	9/30/2021		11/10/2021	15	15	approved
1277-11235	Horizon Hills Church	10/13/2021					under review
1277-11236	TxDOT Horizon Blvd Irrigation	11/8/2021				2	under review



**TRE & ASSOCIATES, LLC (revised 11/11/21)**  
**HR - CONSTRUCTION REVIEW**

Job #	Job Title	Commitment Letter Released	Plans Received	Plan Comments Sent	Plan Approval	Comments
1277-11838	Horizon City Unit 91 - 22 lots	1/17/2020	12/16/2019	2/14/2020- 1st set 7/24/20 - 2nd set		awaiting revised plans
1277-11850	13300 Horizon Boulevard	2/20/2020	4/30/2020	6/3/2020		awaiting revised plans
1277-12011	Horizon Mesa Self Storage	2/17/2021	2/15/2021		10/26/2021	approved
1277-12020	Corcoran Park Restroom	4/6/2021	3/11/2021	4/6/21 - 1st set 4/23/21 - 2nd set 8/5/21 - 3rd set	10/20/2021	approved
1277-12036	283 South Darrington	5/25/2021	5/17/2021 2nd - 9/30/21	6/8/2021 2nd - 11/10/21		awaiting revised plans
1277-12059	HC Unit 91 Blk 791-792	6/9/2021	4/15/2021 6/29/21 2nd set	6/11/2021- 1st set 7/9/21- 2nd set 8/5/21 - 3rd set	9/9/2021	approved
1277-12051	Polar Services Center	7/19/2021	10/7/2021			under review
1277-12079	Daddy O's Carwash	7/26/2021	7/19/2021	8/9/2021		awaiting revised plans
1277-11852	Painted Desert at Mission Ridge Unit 4	7/19/2021	7/9/2021 2nd - 9/20/21 3rd 10/8/21	7/29/2021 2nd - 10/8/21	10/14/2021	approved
1277-12120	Darrington Eastlake Commerical Unit Four	11/10/2021	10/11/2021	11/11/2021		awaiting revised plans
1277-12134	Jack in the Box - 13640 Horizon Blvd	11/10/2021	9/30/2021			under review

**TRE & ASSOCIATES, LLC (revised 11/11/21)**  
**CONSTRUCTION OBSERVATION**

<b>Job #</b>	<b>Job Title</b>	<b>Plan Approval</b>	<b>Construction Start Date</b>	<b>Comments</b>
1277-12011	Horizon Mesa Self Storage	10/26/2021		awaiting construction start
1277-12020	Corcoran Park Restroom	10/20/2021		under construction
1277-11903	Summer Sky Unit 2	9/16/2020	6/28/2021	under construction
1277-11864	West Eastlake Estates Unit Two	3/5/2020	3/21/2021	under construction

**TRE & ASSOCIATES, LLC (revised 11/11/21)**  
**HR - APPROVED UTILITY SERVICE COMMITMENTS**

<b>Job #</b>	<b>Job Title</b>	<b>Commitment Letter Released</b>	<b>Committed LUE's WW</b>	<b>Committed LUE's Wtr</b>	<b>Plan Approval</b>	<b>Comments</b>
1277-11727	Horizon City Unit 64- 5 lots	5/2/2019	5	5		awaiting plan submittal
1277-11838	Horizon City Unit 91 - 22 lots	1/17/2020	0	22		awaiting revised plans
1277-11864	West Eastlake Estates Unit Two	2/24/2020	118	118	3/5/2020	under construction
1277-11896	Rancho Desierto Bello Unit 13 Phase II	5/20/2020	82	82	4/22/2020	awaiting accept
1277-11903	Summer Sky Phase 2	5/20/2020	215	215	9/16/2020	under construction
1277-12011	Horizon Mesa Self Storage	2/17/2020	3	3	10/26/2021	approved
1277-12020	Corcoran Park Restroom	3/5/2021	1	1	10/20/2021	approved
1277-12036	283 S. Darrington	5/22/2021	1	1		awaiting revised plans
1277-12051	Polar Services Center	7/19/2021	5	5		under review
1277-12079	Daddy O's Carwash	7/26/2021	32	32		awaiting revised plans
1277-11852	Painted Desert at Mission Ridge Unit 4	7/19/2021	276	276	10/14/2021	approved
1277-12059	HC Unit 91 Blk 791-792	6/9/2021	0	11	9/9/2021	approved

**TOTAL OUTSTANDING COMMITMENTS**

738

771