

City of Pateros, Public Works & Parks

June 2020 –Report to City Council

By City Administrator/
Public Works Supervisor
Jord L. Wilson, MLA



Public Works Team
Mike Lambert – Wastewater
Doug Kirk – Water
Ryan Sisler – Parks
David Hunter – Streets

PUBLIC WORKS

The pandemic has been disruptive to Public Works and Park operations. We remain cautious and careful in our work, and remain vigilant in protecting employees.

Park use is up considerably, as people are using outdoor public space for lunches, exercise, and even outdoor meeting space. We are checking all trashes daily, and high use trash cans like those on the Mall, twice daily.

Outdoor public space has been identified as a safe space to begin recovery as businesses open with Phase 2 opening guidelines. We have ordered additional trash receptacles for the Mall and moveable chairs and tables to help facilitate businesses in what could be a protracted recovery period.

ADMINISTRATIVE

Cares Act Grant – The furniture has been ordered for the Mall. The signed contract is at Commerce, and the re-imbusement account has been setup.

TIB – The chip seal for Ives and North is still in the queue. I attended, online, the annual TIB training. Several programs including the Small City Sidewalk Program has been cut for 2021. We are still authorized to move forward on the Warren Street sidewalk project, however; I will not be surprised if the project is put on hold. There are several new requirements coming from TIB, that I will be implementing into our street repair and maintenance program to make us more competitive for future grants.

Pandemic Assistance Programs – The PBLTRO has received a \$5,000 grant that will be used to purchase gift cards from local businesses and give to community members in need as a result of the COVID crisis. We have been meeting about every other week and discussing challenges and needs regarding the COVID crisis. I have also been assisting Economic Alliance in their response to the pandemic.

RMSA – The RMSA Operating Committee moved to recommend changes to the fee structure of our insurance. I think this will ultimately benefit us with lower rates and more equitable rates, if it is adopted by the Board of Directors.

STREET DEPARTMENT

- David and Doug are working on road patching (including Warren Street) and signage.

WATER DEPARTMENT

The downtown pump station has had some issues and is offline. It is still under warantee. POW, Midland, and Control Freek are addressing the issues. The final retainage for POW has been released. We hope that they will bid on our next project.

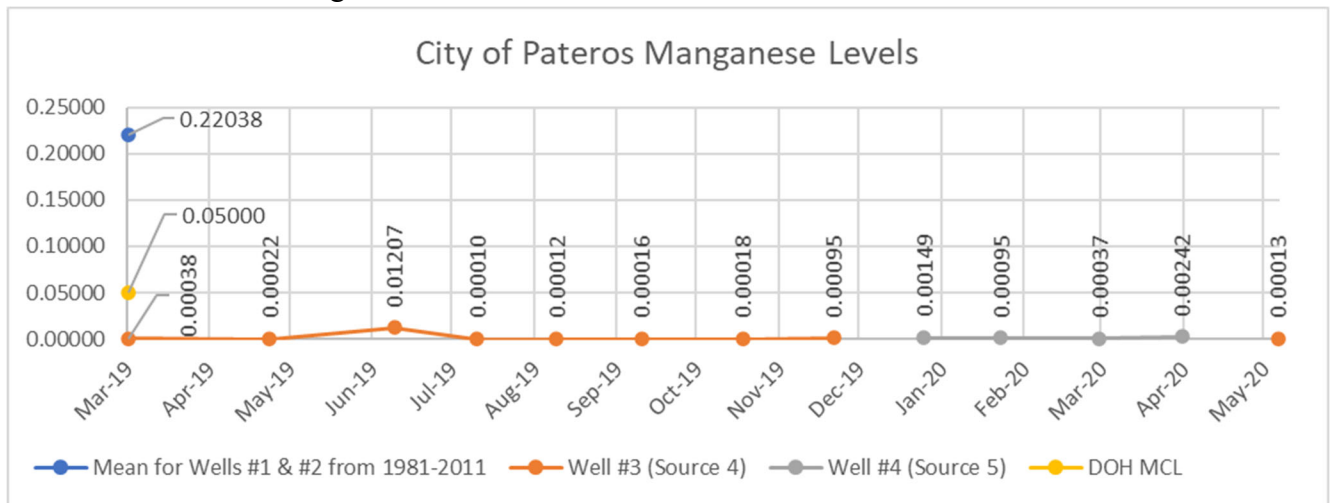
Water Project

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The final water project bidding was held up to WSDOT franchise issues related to construction documents. The bid has been put out to the public and we anticipate a June 30th bid opening, unless bidders express they need more time.

Manganese Report

Excellent numbers! Manganese issues continue to decline.



2020 WATER PRODUCTION							
	2018	2019	2020		2018	2019	2020
Jan	1,797,800	2,121,438	2,036,291	Jul	17,454,000	18,968,280	
Feb	1,552,000	2,056,813	1,946,743	Aug	14,152,900	16,600,547	
Mar	1,778,900	2,260,796	2,373,833	Sep	10,192,700	8,729,598	
Apr	2,963,400	4,503,629	6,608,729	Oct	6,663,600	4,690,568	
May	9,611,300	12,892,999	10,446,235	Nov	2,076,600	2,178,552	
Jun	13,457,700	16,082,186		Dec	1,867,529	1,918,369	
Year to Date Total Gallons	2018 17,703,400	2019 23,835,675	2020 23,411,831	Water consumption is up.			
Water Quality Testing							
Coliform Test	<i>This is an indicator test for total coliform (good and bad). The presence of coliform in a sample indicates the need for further testing</i>						
5/28/2020	2 samples		Coliform absent				
Chlorine Monitoring	<i>A target residual of 0.3-0.5 (min. 0.2) used to control microbes *As part of routine monitoring, the chlorine input rate is immediately increased for all chlorine tests results below 0.2 to meet the DOH minimum of 0.2</i>						
5/1/2020-5/29/2020	<i>Month AVG of 0.28</i>	Daily samples Mon-Fri	Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.5 - 1.50 (4.0 State MCL)				

PARKS

- 🔧 Ives Landing has been fully opened for camping. Kerri, and I have developed a reservation system for camp spots. See attached procedures, rules, and map.
- 🔧 We plan to turn on the splash pad, but it will be closed for play until State and County guidelines allow.

The White Board

Tasks at Public Works & Parks

COMPLETED

- Parks are green. Lots of irrigation repairs
- Bark around trees
- Swim dock remodeled and ready to install
- Weekly spray projects being completed
- Window replaced at MBL
- Graffiti painted over at train bridge
- Repairs to Mall irrigation lines
- Frost free valve in footing at library
- Sewer sampler refrigerator repaired
- School banners installed for graduation

IN-PROGRESS

- MBL restroom repairs
- One Way signs at downtown pump station

- Camera installation
- Rebuilding skimmers at treatment plant
- Backflow inspection and repairs
- New banners ordered, end of June installation.

HIGH PRIORITY

- Warren Street Patch
- Lift station floats repaired

PERPETUAL CALENDAR

- Summer is dedicated to green grass, curb appeal, and clean facilities to accommodate our tourist industry.
- Sewer plant biosolids maintenance
- Street striping
- Sign projects
- ROW mowing – the ditch, cemetery, and landfill

MAKE YOUR PAYMENT ONLINE
CITY OF PATEROS



**UTILITIES
RV & CAMPING FEES
ANIMAL LICENSE
BUSINESS LICENSE**

PARK RESERVATIONS



**Reservations for RV and Tent
Camping**

**MUST BE MADE BY PHONE
(509) 923-2571**

(Self-serve camping. Check availability at Ives Landing Kiosk or call for reservation. Online payment available, but must call to make reservation)

**Reserve a picnic shelter, event
space, or the bandstand**

**Ives Landing Park Map, Check-in
Instructions, and Rules/Regulations**

Park Fees

EXPLORE PATEROS

**Reservation System Banner on
Pateros.com**

City of Pateros Park & Sewer Fees												
	Ives Landing Park				Ives Landing Dump Station (Sewer Dept)				Memorial Park			
	2017	2018	2019	2020	2017	2018	2019	2020	2017	2018	2019	2020
JAN	\$ -	\$ -			\$ -	\$ -			\$ -	\$ -	\$ -	
FEB	\$ -	\$ -			\$ -	\$ 10.00			\$ -	\$ 25.00	\$ -	
MAR	\$ -	\$ -			\$ -	\$ -			\$ -	\$ -	\$ -	
APR	\$ -	\$ -	\$ 85.00		\$ 48.16	\$ 40.00	\$ 21.00	\$ 113.00	\$ 97.00	\$ 25.00	\$ 75.00	
MAY	\$ -	\$ 175.00	\$ 70.00		\$ 95.85	\$ 85.00			\$ 136.50	\$ 157.00	\$ 15.00	
JUN	\$ -	\$ 894.10	\$ 35.00	\$ 100.00	\$ 228.00	\$ 240.00	\$ 230.75	\$ 173.00	\$ 423.00	\$ 333.75	\$ -	\$ 230.00
JUL	\$ -	\$ 2,296.38	\$ 820.00		\$ 276.00	\$ 285.00	\$ 280.92		\$ 279.00	\$ 570.50	\$ 380.00	
AUG	\$ -	\$ 2,400.00	\$ 740.25		\$ 305.00	\$ 112.00	\$ 155.00		\$ 1,195.24	\$ 1,276.00	\$ -	
SEP	\$ 200.00	\$ 600.00	\$ 814.00		\$ 97.00	\$ 143.00	\$ 236.06		\$ 210.35	\$ 214.00	\$ 925.00	
OCT	\$ -	\$ 280.00	\$ -		\$ 145.50	\$ 164.00	\$ 116.00		\$ 153.00	\$ 180.00	\$ 120.00	
NOV	\$ -	\$ 7.00	\$ 85.00		\$ 104.75	\$ 53.00	\$ -		\$ 6.00	\$ 30.00	\$ 60.00	
DEC	\$ -	\$ -	\$ -		\$ -	\$ 83.00	\$ -		\$ -	\$ -	\$ -	
Total	\$ 200.00	\$ 6,652.48	\$ 2,649.25	\$ 100.00	\$ 1,300.26	\$ 1,215.00	\$ 1,039.73	\$ 286.00	\$ 2,500.09	\$ 2,811.25	\$ 1,575.00	\$ 230.00
6 mo. Total	\$ -	\$ 1,069.10	\$ 190.00	\$ 100.00	\$ 372.01	\$ 375.00	\$ 251.75	\$ 286.00	\$ 656.50	\$ 540.75	\$ 90.00	\$ 230.00
% of Change			-82%	-47%			-33%	14%			-83%	156%

Totals for Park Fees are through 6/9/2020

SEWER DEPARTMENT

Because all the numbers for May have not been tabulated, I have included a typical dashboard view of process control worksheet. This gives you an idea of the data points that we are reviewing on a weekly basis through sample collection and testing.

PWWTP - PROCESS CONTROL WORKSHEET		
Date:	5/28/2020	
VSS Concentration, (Average #s)	3839	mg/l
Influent BOD	510	mg/l
Daily Flow	0.0446	MGD
MLSS Concentration, (Average #s)	4592	mg/l
Effluent TSS	13	mg/l
pH of Influent	6.8	
Temperature of Influent	18	C
DO of Influent	1.0	mg/l
pH of Effluent	7.1	
Temperature of Effluent	19	C
DO of Effluent	5.4	mg/l
pH of Ditch	7.1	
Temperature of Ditch	19	C
DO of Ditch	1.3	mg/l
Settle - 5 minute	950	mg/l
Settle - 30 Minute	740	mg/l
Digester Tanks Wasted	50	Minutes
APPLE HOUSE		
SS #1	0	mg/l
SS#2	0	mg/l
BOD #1	0	mg/l
BOD #2	0	mg/l
Flow (latest Read)		gallons
Flow (Initial Read)		gallons
Flow Total	0	gallons
CALCULATIONS		
Fixed		
Aeration Basin Volume	0.125	MG
Lbs per gallon	8.34	lbs/gal
Gallons per Cubic Foot	7.47	gal/cf
Aeration Tank Loading		
Total pounds VSS in Aeration Basin	4002	lbs
Food/Microorganism (F/M) Ratio		
F/M Ratio	0.047	
Sludge Age (SA)		
Suspended Solids (SS) in Aeration Basin	4787	lbs
SS Wasted	254.0	lbs/day
SS lost in effluent	4.84	lbs/day
SA	18	days
Sludge Volume Index (SVI)		
SVI	161	
WASTE SLUDGE WORKSHEET		
Aerobic Digester Tank 1 (12'x10')	120	sf
Aerobic Digester Tank 2 (12'x10')	120	sf
Time Wasted	50.0	Minutes
Amount Wasted per minute in feet	0.074	feet
Amount Wasted in Feet	3.7	feet
Amount Wasted in Cubic Feet	888	CF
Total Gallons Wasted per Day	0.0066	MGD

CONTROL DASHBOARD			
SETTLING		5/28/2020	
500-800 5 Min.	Good	950	
200-300 30 Min.	Good	740	
Desirable SVI Range			
75-150		161	
SA Ranges for Nitrification			
Dashboard will not register <9 or >25 Celcius			
Wastewater Temp, C	SA	5/28/2020	
10	30	0	0
11	28	0	0
12	26	0	0
13	24	0	0
14	22	0	0
15	20	0	0
16	19	0	0
17	18	0	0
18	17	0	0
19	16	19	18
20	15	0	0
21	14	0	0
22	13	0	0
23	12	0	0
24	11	0	0
25	10	0	0
MLSS Range			
2500 -3500 mg/l		4592	
pH Range			
6.5-7.5		7.1	
DO Range			
1-3 mg/l		1.3	
BOD REMOVAL			
Average Monthly >85%		99	
TSS REMOVAL			
Average Monthly >30mg/L		13	

The Control Dashboard for the week of 5/28/2020 is showing a couple of items in red. That is alerting us to adjust our wasting controls. Our permit data points are still well within range.