

City of Pateros, Public Works & Parks
September 2021 –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

ADMINISTRATIVE

Kerri and I were off September 3 through the 10th. Most of our work has been on the budget this month. COVID continues to disrupt projects. We have 2 employees out in Public Works until at least the 27th. The State guidelines are to stay quarantined if you test positive for at least 10 days and isolated for 10 days if you have been in direct contact with someone that has tested positive. Employees can then return to work with a negative test. Brewster EMT is performing 15-minute tests, 7-days a week. We are keeping employees separated as much as possible, so that our entire staff is not required to go into isolation at the same time.

GRANTS & PROJECTS

CDBG Planning Only Grant – We were notified that we will be awarded \$30,000 for a planning only grant. The grant will fund design specifications for new development and a review of housing and environmental codes and regulations.

Solar Grant – The first half of the solar grant was submitted to Washington State Dept. of Commerce, Energy Division. The grant would pay for solar panels placed on the new reservoir and would reduce energy costs in both the Water Department and Sewer Department. An energy production assessment was completed and between \$4,000 and \$5,000 a month would be saved in energy costs per year. With the City investment, the project would break even in year 5 or 6. Life expectancy of the panels is greater 30-years.

RMSA Safety Grant – We have closed out the \$5,000 RMSA Safety Grant. The grant paid for street safety items, including the in-street pedestrian crossing signs.

PLANNING & ECONOMIC DEVELOPMENT

ARPA Grant

The mayor kicked off the sign and breezeway survey. She is delivering surveys to businesses directly. The goal is to gather information regarding the Welcome Center project by the first of October. A committee will then be formed to meet with the Graybeal and begin formulating a design.

Erlandsen is still conducting a survey of the breezeway property. There are some uncertainties we still need to iron out.

PUBLIC WORKS

WATER DEPARTMENT

Water Improvement Project Update - Construction on the project has completed. Kerri, Ben and I are now working with RD on the final grant funding. We are also working with the bank and the bond attorney to close out the bank loan. We have some unusable grant money that will probably be left on the table, because we don't have projects that fit the approved scope of the grant. We were able to purchase a water tender for the Water Department. The tender will be used to flush lines of accumulated minerals and sediment.

Doug has been able to follow up with customers and explain use patterns, identify leaks, and back flow events. Billing was some easier this month, and expected to be much easier next month.

Varela Engineering, Pete and Ben, and I have been working on a response to the Water Right Application filed August 23rd 1993. I have attached our response to their request for justification.

SEPTEMBER		2021 WATER PRODUCTION							
	2018	2019	2020	2021		2018	2019	2020	2021
Jan	1,797,800	2,121,438	2,036,291	2,277,596	Jul	17,454,000	18,968,280	16,601,532	19,584,242
Feb	1,552,000	2,056,813	1,946,743	2,057,440	Aug	14,152,900	16,600,547	16,750,284	15,522,640
Mar	1,778,900	2,260,796	2,373,833	2,133,860	Sep	10,192,700	8,729,598	12,227,228	
Apr	2,963,400	4,503,629	6,608,729	6,062,448	Oct	6,663,600	4,690,568	5,526,800	
May	9,611,300	12,892,999	10,446,235	11,714,756	Nov	2,076,600	2,178,552	1,961,332	
Jun	13,457,700	16,082,186	13,249,332	15,794,652	Dec	1,867,529	1,918,369	1,943,276	
Year to Date Total Gallons	2018	2019	2020	2021			<i>Pump Station #3</i>		9,349,056
	62,768,000	75,486,688	70,012,979	75,147,634			<i>Pump Station #4</i>		6,173,584
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>								
8/5/2021	1 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>								
8/2-8/31/2021	<i>Month Median of 0.27</i>	Daily samples Mon-Fri		<i>Target Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.3 - 1.50 (4.0 State MCL)</i>					
Manganese Testing	<i>Historic Highs from old wells 0.2-0.7 & DOH SMCL 0.05</i>								
Location	Date	Most Current		Average	High	Low	Median		
Pump Station #3	06/11/21	0.0001		0.00123	0.01207	0.00010	0.00017		
Pump Station #4	06/11/21	0.10250		0.08229	0.21760	0.00037	0.09628		
<i>*Future manganese testing done quarterly</i>									
METER ALERTS									
LEAK ALERTS SENT TO CUSTOMERS									15
METERS CHECKED FOR REVERSE FLOW									4

STREETS DEPARTMENT

We had planned to complete street striping this month, but COVID has postponed those plans.

SEWER DEPARTMENT

We are still working out a few bugs with the new SCADA system for the Warren Street Lift Station and the Treatment Plant, but for the most part, we are now getting alarms forwarded to our phones.

City of Pateros Sewer Department							
Permitee: Pateros POTW	Permit #: WA002055		Operator: Mike Lambert				
2021 Wastewater Processed in Gallons							
	2019	2020	2021		2019	2020	2021
January	1,267,300	1,458,000	1,549,650	July	1,580,000	1,663,000	1,769,300
February	1,136,000	1,342,700	1,444,200	August	1,415,100	1,494,200	1,674,400
March	1,284,500	1,299,500	1,202,300	September	1,496,300	1,457,100	
April	1,741,500	1,239,700	1,272,000	October	1,611,290	1,419,900	
May	1,427,400	1,489,000	1,611,900	November	1,442,200	1,311,700	
June	1,448,900	1,488,700	1,771,300	December	1,433,100	1,227,900	
Year To Date Totals Gallons Processed	2019	2020	2021				
	11,300,700	11,474,800	12,295,050				
Wastewater Effluent Monitoring							
Total BOD 5-day	<i>Organic Loading Rates (Permit Range \geq 85%)</i>						
Weekly Test	4 - Tests	98.75% removal					
TSS	<i>Total Suspended Solids, non organics (Permit Range \geq 85%)</i>						
Weekly Test	4-tests	94% removal					
pH	<i>(Daily min/max permit range equal/between pH 6 and pH 9</i>						
Weekly minimum	Mon-Fri	6.9					
Weekly Maximum	Mon-Fri	7.4					
Fecal Coliform Bacteria	<i>(Permit Range Weekly \leq 100; Monthly \leq 200</i>						
Monthly geometric mean	4-tests	42.0					
Dissolved Oxygen	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri	6 Maximum					
Temperature	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri	22.3 Degrees C Average					
Ammonia	<i>Monthly – Report Only</i>						
8/26/2021	1 sample	0.07					

September Notes: The plant has been running relatively well. There has been some disruption in processing but daily and weekly testing is well within our permit.

PARKS & RECREATION

- 🌳 Kim has been able to return, which has been a life saver in parks! No one keeps our restrooms as clean as Kim.
- 🌳 It has been a good year for park reservations. The only year higher was when we had one camp space reserved for three months for someone that needed a temporary place to live.
- 🌳 I periodically review security camera photos. We have cameras stationed at Ives Landing, Memorial Park, the River Pavilion, Peninsula Park, and the Tennis Courts. The camera system was mostly funded by the RMSA safety grant program. I do think that vandalism has went down due to the cameras. It is also good to see the Sherriff Department checking in on our facilities during the evening hours.
- 🌳 Arbor Day was rained out and moved to Saturday. Although it was low turn-out, the Proclamation was read live on Facebook and the city did send out an Arbor Day newsletter.



City of Pateros Park & Sewer Fees										
	Parks RV/Camping/Parking Fees Memorial & Ives Landing					Ives Landing Dump Station (Sewer Dept)				
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021
JAN	\$ -	\$ -			\$ 105.00	\$ -	\$ -			
FEB	\$ -	\$ 25.00			\$ 245.00	\$ -	\$ 10.00			
MAR	\$ -	\$ -			\$ 110.00	\$ -	\$ -			
APR	\$ 97.00	\$ 25.00	\$ 160.00		\$ 580.00	\$ 48.16	\$ 40.00	\$ 21.00	\$ 113.00	
MAY	\$ 136.50	\$ 332.00	\$ 85.00		\$ 775.00	\$ 95.85	\$ 85.00			\$ 186.00
JUN	\$ 423.00	\$1,227.85	\$ 35.00	\$1,855.00	\$2,635.00	\$ 228.00	\$ 240.00	\$ 230.75	\$ 268.00	\$ 519.41
JUL	\$ 279.00	\$2,866.88	\$1,200.00	\$3,318.00	\$1,794.25	\$ 276.00	\$ 285.00	\$ 280.92	\$ 224.00	\$ 120.00
AUG	\$1,195.24	\$3,676.00	\$ 740.25	\$1,994.00	\$1,105.00	\$ 305.00	\$ 112.00	\$ 155.00	\$ 341.75	\$ 358.00
SEP	\$ 410.35	\$ 814.00	\$1,739.00	\$1,125.00		\$ 97.00	\$ 143.00	\$ 236.06	\$ 126.25	
OCT	\$ 153.00	\$ 460.00	\$ 120.00	\$ 305.00		\$ 145.50	\$ 164.00	\$ 116.00	\$ 201.35	
NOV	\$ 6.00	\$ 37.00	\$ 145.00	\$ 2.00		\$ 104.75	\$ 53.00	\$ -	\$ -	
DEC	\$ -	\$ -	\$ -			\$ -	\$ 83.00	\$ -		
Total	\$2,700.09	\$9,463.73	\$4,224.25	\$8,599.00	\$7,349.25	\$1,300.26	\$1,215.00	\$1,039.73	\$1,274.35	\$1,183.41
7 Mo.	\$2,130.74	\$8,152.73	\$2,220.25	\$7,167.00	\$7,349.25	\$ 953.01	\$ 772.00	\$ 687.67	\$ 946.75	\$1,183.41