

City of Pateros, Public Works & Parks

March 2021 –Report to City Council

By City Administrator/
Public Works Supervisor
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Public Works Team
Mike Lambert – Wastewater
Doug Kirk – Water
Ryan Sisler – Parks
David Hunter – Streets

PUBLIC WORKS

In hopes of an “open” tourist season, City Hall and Visitor Center Bathroom remodel and Museum tune up was completed.

The Century Link phone system continues to go down, leaving City Hall and the Sewer Plant and Warren Street Lift Station without service for as long as 48-hours. On two occasions, the pumps have failed at the Head Works Lift Station, and because the phone system was not in service, staff was not alerted to the failure. The plant is checked daily, so it was caught within 24 hours, but during summer time or at a time Apple House was sending large amounts of waste, it could have been disastrous, causing sewer to backup into all of the downtown.



In response, we have completed rewiring City Hall with network wire, and plan on going to a Voice over IP (VoIP), which would allow us to use our fiber internet connection to make calls.

In response to the failure of the sewer phone lines, we will be changing from the phone alarm system, to the radio SCADA system. The new system will be integrated into the water system SCADA we just installed with the new pump stations. I had budgeted Capital Sewer funds to replace the Warren Street Lift Station lid, but after consultation with our Engineer, it seems best to put that project on hold until after the Sewer System Plan is completed. It is highly likely that the complete lift stations, that are over 50 years old, will need overhauled not just the lids. Updating the SCADA system radios to alert us when we have pump failures is critical in our operations.

LSB is still about four weeks out on reviewing our foundation plans for the Winter Barn.

ADMINISTRATIVE

Mayer Anders, George, Kurt met with CREA Affiliates to kick-off the Survey of the Plastics Industry project. CREA toured the City, railroad options, and the Starr Road

Development. They will be setting up a virtual booth at the national plastics convention. I updated Pateros.com/COMMERCE TAB with Exploring Plastics information, so that the industry has a place to connect with Pateros.

Compiled information on Repairs to the Mall and Starr Road Development for the Mayor to submit to Patty Murrays office regarding shovel-ready projects.

STREET DEPARTMENT

The final draft of the Warren Street sidewalk was sent out to residents and owners adjacent to the project. I think the project has been well received. Sidewalk projects are always difficult as it impacts private property and historical use of public property. The Mayor and I met with each individual privately, onsite, as we were requested. The final draft reflects the comments and concerns of the residents while maintaining the integrity of the project. I am pleased with the community response to the project. We learned a lot from Phase 1 of the project and were able to address many concerns in advance of the first draft.

PARKS

- 🌳 Ryan and David completed 2021 tree pruning and have begun spring cleaning of landscapes. I spent a couple hours training them on tree pruning and turned them loose. To date, they have pruned 34 trees and removed three. The removals included a juniper tree at Methow Boat Launch that was planted too close to the sycamores and struggling due to competition; a columnar spruce at Peninsula Park that was dyeing; and a mountain ash at Warren and Dawson that was planted too close to the road and impossible to mow around and maintain. The pines at the old pump station were pruned for visibility of traffic entering the Industrial Way off ramp, and the row of trees along Warren and Watson Draw were pruned up to allow for mowing and maintenance while maintaining a buffer for the residents from US97.
- 🌳 I met with Douglas PUD and their engineers on the trail they intend on putting in from Memorial Park to Ives Landing. The trail would go on the lake side of hotel. I met with the hotel owner and he raised some concerns about the trail. I will be making sure the PUD is aware of those concerns during the design phase. The PUD hopes to complete the trail in 2021.
- 🌳 The PUD plans to replace the two small gazebos before tourist season starts. They are using the same contractor as our water project, so I expect demolition of the two old gazebos to start soon.
- 🌳 I received lots of comments and edits on the interpretive boards. The goal is to get them to the printer before the March Council meeting. I expect printing to take 4-6 weeks and hope to get them installed before Memorial Day.

WATER DEPARTMENT

Water system is running without incident. Consumption is up marginally from previous years. The engineer, Rural Development, and I met with Smith Excavation as the kick-off meeting. I've attached the contractors proposed schedule. Meter changes should start the week of 3/16 and substantial completion the end of June.

March		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	
Feb	1,552,000	2,056,813	1,946,743	2,057,440	Aug	14,152,900	16,600,547	16,750,284	
Mar	1,778,900	2,260,796	2,373,833		Sep	10,192,700	8,729,598	12,227,228	
Apr	2,963,400	4,503,629	6,608,729		Oct	6,663,600	4,690,568	5,526,800	
May	9,611,300	12,892,999	10,446,235		Nov	2,076,600	2,178,552	1,961,332	
Jun	13,457,700	16,082,186	13,249,332		Dec	1,867,529	1,918,369	1,943,276	
Year to Date Total	2018	2019	2020	2021	<i>Pump Station #3</i>				
Gallons	1,797,800	2,121,438	2,036,291	2,277,596	<i>Pump Station #4</i>		2,057,440		
Water consumption is up for the month of February									
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>								
2/4/2021	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>								
1/4-1/29/2021	<i>Month Median of 0.32</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 MCL 0.05</i>								
	Date	Most Current	Average	High	Low	Median			
	Pump Station #3	1-Oct	0.00018	0.00123	0.01207	0.00010	0.00017		
	Pump Station #4	Jan-21	0.14170	0.06572	0.16220	0.00037	0.07132		
Pump Station #4 manganese level remains high (probably the new normal)									

SEWER DEPARTMENT

- I did reach out to ECY on the Sewer Plan project, but still have not received contracts for the project.
- Warren Street Lift Station – As noted at the beginning of this report, because of the near-misses with the failed phone lines, I am using the budgeted Capital Funds for improvements to the SCADA system. It is something that has been on our list, but has recently become priority.
- I attended a webinar hosted by Yakima Wastewater about microbreweries and the challenges to wastewater systems.

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	
February	1,136,000	1,342,700	1,444,200	August	1,415,100	1,494,200	
March	1,284,500	1,299,500		September	1,496,300	1,457,100	
April	1,741,500	1,239,700		October	1,611,290	1,419,900	
May	1,427,400	1,489,000		November	1,442,200	1,311,700	
June	1,448,900	1,488,700		December	1,433,100	1,227,900	
Year To Date Totals		2019	2020	2021			
Gallons Processed		2,403,300	2,800,700	2,993,850			
Wastewater Effluent Monitoring							
Total BOD 5-day		<i>Organic Loading Rates (Permit Range $\geq 85\%$)</i>					
Weekly Test		4 - Tests		99% removal			
TSS		<i>Total Suspended Solids, non organics (Permit Range $\geq 85\%$)</i>					
Weekly Test		4-tests		95% removal			
pH		<i>(Daily min/max permit range equal/between pH 6 and pH 9)</i>					
Weekly minimum		Mon-Fri		7.2			
Weekly Maximum		Mon-Fri		7.4			
Fecal Coliform Bacteria		<i>(Permit Range Weekly ≤ 100; Monthly ≤ 200)</i>					
Monthly geometric mean		4-tests		3.8			
Dissolved Oxygen		<i>Daily – Report Only</i>					
Daily Test		Mon-Fri		8.6 Maximum			
Temperature		<i>Daily – Report Only</i>					
Daily Test		Mon-Fri		12.0 Degrees C Average			
Ammonia		<i>Monthly – Report Only</i>					
2/8/2021		1 sample		0.07			
January Notes: Did note that Apple House had a couple of high pH samples.							