

City of Pateros, Public Works & Parks

June 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

June is always stress-month at Public Works. Hot temperatures scorch the lawns, encourage the weeds, and spark tempers. Resident complaints about weeds, dogs, and noise climb in June. It is the month that events and activities kickoff in the city. Parks are full, as are the trash cans. Work exceeds time: Gazebos need tuned up for family events, weeds need sprayed, streets striped, and there is an unending list of irrigation repaired. Weekly Public Works prioritize tasks and daily we adjust in response to the greatest need. It is a challenging juggling act. City Hall appreciates all comments and concerns, as we work for the community. Staff at City Hall are very accessible. The staff is definitely feeling the pressures of June and we will be relieved to get through the final phase of the Water System project and the Pandemic!

ADMINISTRATIVE, PLANNING, GRANTS, PROJECTS

ECY Sewer Plan Grant – Varela is working on drafting a contract for the project. I expect to have it ready for July Council.

CDBG Construction/Development Grant – Grant application has been turned in.

ARPA Grant – Paperwork has been submitted for 2021 disbursement. There will be two disbursements of \$99,656, one in 2020 and one in 2021.

The grant can be spent for several projects including: supporting health expenditures; economic assistance for small businesses and impacted industries; replace lost public sector revenues; provide premium pay for essential public workers; and invest in water, sewer, and broadband infrastructure.

I have reviewed the city economic development plans to look for prioritized eligible projects that would benefit downtown businesses. SEE ATTACHED PROJECTS. I also have numerous water and sewer infrastructure projects that are eligible including the replacement of two 60s-era sewer lift stations.

ECONOMIC DEVELOPMENT

POPUK MARKET – June Market was a success. We are working on fine-tuning signage, traffic control, and lighting. It was great to see the Riverview Pavilion in use. I have been working with the Market Committee to facilitate the success of the market.

Plastics Survey – CREA is working on the final leads and will begin writing a report on its findings. RBDG has granted us an extension on the grant until the end of 2021.

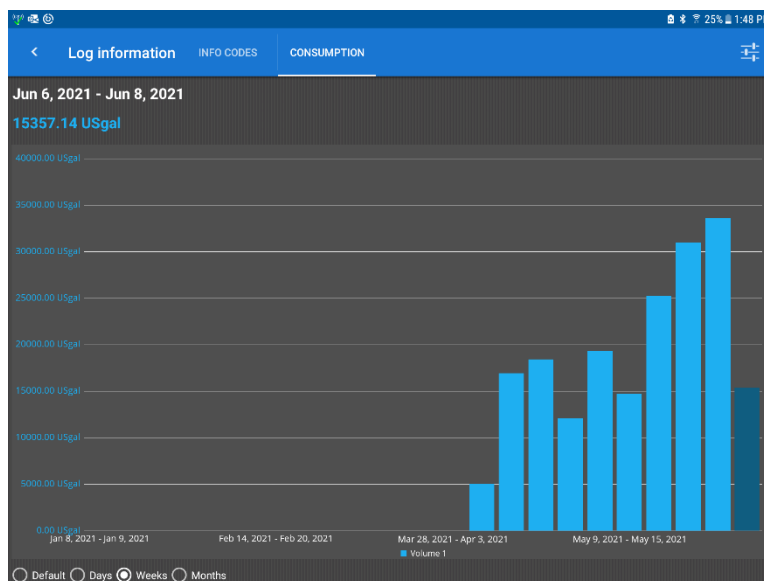
PUBLIC WORKS

WATER DEPARTMENT

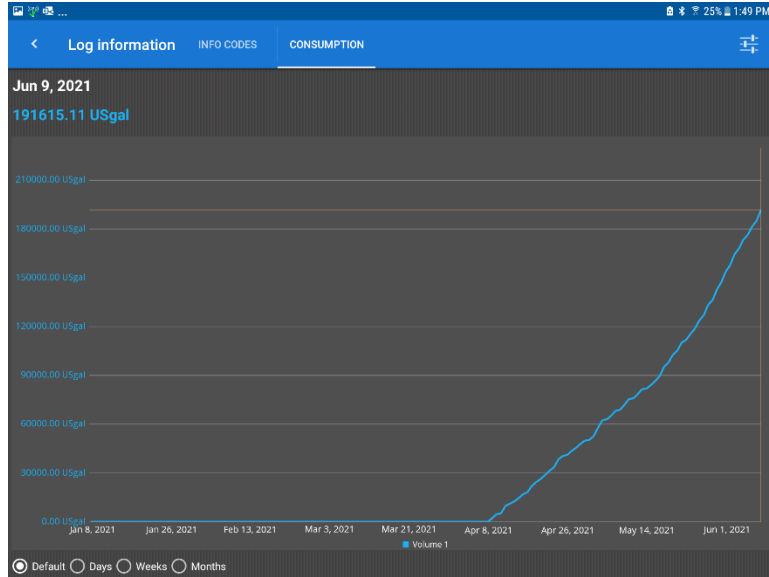
Water Improvement Project Update - We are in the final stretch of the project that started in 2014. Tying up all the loose ends has been a real challenge.

- Valve replacement and work in the downtown has been extremely inconvenient for the downtown business owners. We have had some unplanned disruptions and we have scheduled some painful disruptions. Our goal has been to be least disruptive as possible and try and give fair notice. Before the project started, a water break in the downtown required the whole downtown to be shut down until the repairs were made. At the end of the project we will have the ability to isolate five separate segments reducing disruptions to neighboring businesses.
- Fire hydrant installation has been completed. Placement of the hydrants was a combined effort between two previous fire chiefs, Varela Engineering and the City. I received some complaints on the location of the hydrant on Cemetery road and the hydrant was moved to better address their concerns.
- Meter installation has been excruciating painful for City Hall. Kerri and Cecilia have worked hard at reconciling the new meters with the books. Over 300 meters have been installed, with only a couple outstanding.

The new meters give us the ability to pull water consumption activity at a very granular level. Because of the new meters, we have been able to pass along leak information and answer questions about consumption. If a customer has questions about their consumption, we can pull that information directly from the meter. Here are some of the reports we can pull:



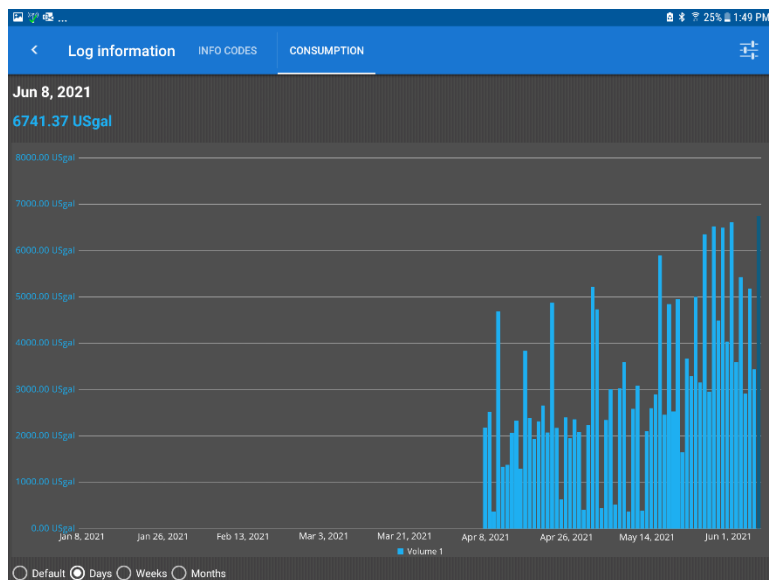
1 Consumption Daily/Weekly/Monthly



2 Consumption Trend Lines

Name	Start	End
Leak	5/24 2021	5/25 2021

3 Information and Alarm Codes including: Leak, burst, reverse flow and others.



4 Daily Consumption

MAY		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	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		Dec	1,867,529	1,918,369	1,943,276	
Year to Date Total Gallons	2018	2019	2020	2021		<i>Pump Station #3</i>		<i>8,522,976</i>	
	17,703,400	23,835,675	23,411,831	24,246,100		<i>Pump Station #4</i>		<i>3,191,780</i>	
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>								
5/3/2021	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 0.30</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	3-May	0.0023	0.00131	0.01207	0.00010	0.00018			
Pump Station #4	3-May	0.21760	0.08060	0.21760	0.00037	0.09438			

2021 water production numbers are similar to previous years. Chlorine has been maintaining at our target levels. With the Water Improvement Project, we have added three sampling stations which will allow us to better monitor water quality out in the system.

SEWER DEPARTMENT

- The programming for the new SCADA system is being written by Control Freak. There was further delay of installation because not all of the equipment arrived.
- We have had a pump failure at the Warren Street Lift Station, a back up pump has been installed and the failed pump will be sent to out to be overhauled.
- The Headworks Lift Station has also had some failures. Mostly, they have been after-hour, annoyance calls, but someone has to respond to verify the system is operating. The new SCADA system should help us trouble shoot more issues from home.
- I have been in touch with ECY regarding our Wastewater Discharge Permit. They are working on the new permit, but we are anticipating some increased testing requirements due to issues upstream in the Columbia. Our Sewer System Plan will come at a good time, as we can incorporate processing and testing changes into that document. There are some processing questions ECY has about our system, that I will also be able to iron out during the system planning process.

- We have been cleared to haul 2019-2020 biosolids to Boulder Park for beneficial use. Mike is scheduling with the field manager for those hauls.

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	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		December	1,433,100	1,227,900	
Year To Date Totals		2019	2020	2021			
Gallons Processed		6,856,700	6,828,900	7,080,050			
Wastewater Effluent Monitoring							
Total BOD 5-day		<i>Organic Loading Rates (Permit Range $\geq 85\%$)</i>					
Weekly Test		4 - Tests		98.25% removal			
TSS		<i>Total Suspended Solids, non organics (Permit Range $\geq 85\%$)</i>					
Weekly Test		4-tests		96.5% removal			
pH		<i>(Daily min/max permit range equal/between pH 6 and pH 9)</i>					
Weekly minimum		Mon-Fri		7.7			
Weekly Maximum		Mon-Fri		8.7			
Fecal Coliform Bacteria		<i>(Permit Range Weekly ≤ 100; Monthly ≤ 200)</i>					
Monthly geometric mean		4-tests		8.8			
Dissolved Oxygen		<i>Daily – Report Only</i>					
Daily Test		Mon-Fri		5.8 Maximum			
Temperature		<i>Daily – Report Only</i>					
Daily Test		Mon-Fri		17.6 Degrees C Average			
Ammonia		<i>Monthly – Report Only</i>					
5/3/2021		1 sample		0.75			

May Notes: Numbers look good at the plant. The pumps have been giving us some grief. Sending one off to Moses Lake to be overhauled.

PARKS & RECREATION

🌳 We still have more chairs and tables to setup. David will be working on changing sprinkler system to reduce hard water deposits on the furniture. We have heard a lot of positive response with the new furniture. Kim has added a general wipe-down to her summer cleaning routine. She is an invaluable member of our team! She cleans restrooms, signage, interpretive boards, playgrounds, and now Mall furniture.

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		\$ 228.00	\$ 240.00	\$ 230.75	\$ 268.00	
JUL	\$ 279.00	\$2,866.88	\$1,200.00	\$3,318.00		\$ 276.00	\$ 285.00	\$ 280.92	\$ 224.00	
AUG	\$1,195.24	\$3,676.00	\$ 740.25	\$1,994.00		\$ 305.00	\$ 112.00	\$ 155.00	\$ 341.75	
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	\$1,815.00	\$1,300.26	\$1,215.00	\$1,039.73	\$1,274.35	\$ 186.00
4 Mo.	\$ 233.50	\$ 382.00	\$ 245.00	\$ -	\$1,815.00	\$ 144.01	\$ 135.00	\$ 21.00	\$ 113.00	\$ 186.00

- 🌳 Overnight stays are up significantly. However, overnight stays at Memorial Park continue to decline. The biggest contributing factor to the increase at Ives Landing is the reservation system, and the hard work of Kerri, Cecilia, and Doug.
- 🌳 The two small gazebos installation is complete. We are waiting on electrical installation of lights and plugs. Ryan and David repaired/remodeled surrounding irrigation and have seeded the grass.
- 🌳 David has the Splash Pad up and running. He ran the Twisp pool, so he has experience with the pump and testing requirements. He has been working on crack and concrete sealing, and other related repairs.
- 🌳 Green grass is always a challenge, especially when temperatures are in the upper 90s. Ryan and David had a few irrigation emergencies, that has hampered mowing and pesticide activities. I am aware that our curb appeal along US97 and Warren St. are not up to par. I have made some adjustments to our mowing schedule, to give us a buffer in case of emergency. Ryan passed his pesticide test, and David is lacking one endorsement.