

City of Pateros, Public Works & Parks  
**January 2022 –Report to City Council**

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



Public Works Team  
 Mike Lambert – Wastewater  
 David Hunter – Water/Streets  
 Ryan Sisler – Parks  
 Dalton Heller – PW/Parks

**ADMINISTRATIVE**

The deep cold at the end of December set us back a little. We have four frozen hydrants and numerous frozen meters. In December, in utility billing, we sent out information on how to help keep your pipes unfrozen, and what to do if they are. With deep cold weather, equipment breaks easier, and batteries fail. This is Dalton’s first plow season, and he has been learning the ropes.

**GRANTS & PROJECTS**

As Kerri and I were out on vacation and I then return sick, not a lot to report since last Council meeting. We are working on EOY paperwork and have a couple of projects we are working on closing out. I did get the \$60,000 request application submitted to TransAlta for the Solar Grant project. SEE ATTACHED Final Plastics Feasibility Report.

**PLANNING & ECONOMIC DEVELOPMENT**

Welcome Center Project – Project Committee: Mayor Hook; Jord Wilson; Kerri Wilson; George Brady; Megan Sherrard; Kurt Danison; Consultant/Monte Graybeal. The January meeting has been postponed for a week.

Capital Improvement Plan – The CIP Survey open period was extended until January 15<sup>th</sup> and is now closed. I will be working with Kurt Danison on next steps for this project.

**PUBLIC WORKS**

**DEC./JAN. ACTIVITIES**

- ✓ Thawing meters
- ✓ Thawing hydrants
- ✓ Winterization of equipment & fleet continued
- ✓ Service vehicles and equipment continues
- ✓ Facility maintenance continues
- ✓ Works stations installed at City Hall/PW building

**JAN. /DEC. PLANNED ACTIVITIES**

- ❖ Service Vehicles
- ❖ Facility Maintenance
- ❖ Snow/ice removal
- ❖ Holiday lights & banners removed
- ❖ First Aid Card

1st QUARTER						
PUBLIC WORKS PERPETUAL CALENDAR					%	✓
JANUARY	WK 1	WK 2	WK 3	WK 4		
Snow Removal					ONGOING	
Inventory					100	✓
Take down holiday lights & banners					10	
fire extinguisher yearly inspection					0	
Annual safety review & Update/Safety					MARCH	
<b>FACILITY MAINTENANCE</b>						
City Hall					ONGOING	
Public Works Facilities					ONGOING	
Park Facilities					NONE SCH.	
Water Facilities					NONE SCH.	
Sewer Facilities					STARTED	
<b>SERVICE VEHICLES AND EQUIPMENT</b>						
Parks					25	
Water					25	
Sewer					25	
Street					25	
Schedule Lab Equipment Calibration					0	
Schedule Lab Accreditation Performance					10	

## STREET DEPARTMENT

Because of the big snow, the crew continues to work on clearing roads and parking, removing berms at intersections. They are also monitoring and clearing storm drains.

## WATER DEPARTMENT

December was a much better month for stabilizing chlorine levels. They only dropped below minimum level of 0.2 once, and averaged 0.3. Only the Edna Street Well, Pump Station #3, is online, so manganese levels should be extremely low. Water consumption is up in 2021, (Up 15% compared to 2018). 2021 is the first year that monthly production never dropped below two million gallons in a month.

DECEMBER		2021 WATER PRODUCTION							
	2018	2019	2020	2021		2018	2019	2020	2021
<b>Jan</b>	1,797,800	2,121,438	2,036,291	<b>2,277,596</b>	<b>Jul</b>	17,454,000	18,968,280	16,601,532	<b>19,584,242</b>
<b>Feb</b>	1,552,000	2,056,813	1,946,743	<b>2,057,440</b>	<b>Aug</b>	14,152,900	16,600,547	16,750,284	<b>15,522,640</b>
<b>Mar</b>	1,778,900	2,260,796	2,373,833	<b>2,133,860</b>	<b>Sep</b>	10,192,700	8,729,598	12,227,228	<b>11,318,457</b>
<b>Apr</b>	2,963,400	4,503,629	6,608,729	<b>6,062,448</b>	<b>Oct</b>	6,663,600	4,690,568	5,526,800	<b>6,718,040</b>
<b>May</b>	9,611,300	12,892,999	10,446,235	<b>11,714,756</b>	<b>Nov</b>	2,076,600	2,178,552	1,961,332	<b>2,909,658</b>
<b>Jun</b>	13,457,700	16,082,186	13,249,332	<b>15,794,652</b>	<b>Dec</b>	1,867,529	1,918,369	1,943,276	<b>2,196,784</b>
<b>Year to Date Total Gallons</b>	2018	2019	2020	2021	<i>Pump Station #3</i>		<b>2,196,784</b>		
	83,568,429	93,003,775	91,671,615	98,290,573	<i>Pump Station #4</i>		<b>-</b>		
<b>Water Quality Testing</b>									
<b>Coliform Test</b>	<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>								
<b>12/16/2021</b>	<b>2</b>			<b>Coliform absent</b>					
<b>Chlorine Monitoring</b>	<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>								
<b>12/1-12/30</b>	<i>Month Median of 0.27</i>	<b>Daily samples Mon-Fri</b>		<i>Target Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.3 - 1.50 (4.0 State MCL)</i>					
<b>Manganese Testing</b>	<i>Historic Highs from old wells 0.2-0.7 &amp; DOH SMCL 0.05</i>							<i>Only used Pump Station #3 during month of December</i>	
<b>Location</b>	<b>Date</b>	<b>Most Current</b>	<b>Average</b>	<b>High</b>	<b>Low</b>	<b>Median</b>			
<b>Pump Station #3</b>	<b>09/10/21</b>	<b>0.00010</b>	<b>0.00115</b>	<b>0.01207</b>	<b>0.00010</b>	<b>0.00016</b>			
<b>Pump Station #4</b>	<b>09/10/21</b>	<b>0.66800</b>	<b>0.12412</b>	<b>0.66800</b>	<b>0.00037</b>	<b>0.09879</b>			
<i>*Future manganese testing done quarterly</i>									

## SEWER DEPARTMENT

Processing numbers for the treatment plant have been good. That is not to say that maintaining those numbers have been easy, as temperatures decrease the ability to process organic material also decreases. The plant survived the deep cold of Christmas relatively well, with no major issues.

City of Pateros Sewer Department							
<b>Permitee:</b> Pateros POTW		<b>Permit #:</b> WA002055		<b>Operator:</b> Mike Lambert			
2021 Wastewater Processed in Gallons							
	2019	2020	2021		2019	2020	2021
<b>January</b>	1,267,300	1,458,000	1,549,650	<b>July</b>	1,580,000	1,663,000	1,769,300
<b>February</b>	1,136,000	1,342,700	1,444,200	<b>August</b>	1,415,100	1,494,200	1,674,400
<b>March</b>	1,284,500	1,299,500	1,202,300	<b>September</b>	1,496,300	1,457,100	1,498,100
<b>April</b>	1,741,500	1,239,700	1,272,000	<b>October</b>	1,611,290	1,419,900	1,478,900
<b>May</b>	1,427,400	1,489,000	1,611,900	<b>November</b>	1,442,200	1,311,700	1,397,500
<b>June</b>	1,448,900	1,488,700	1,771,300	<b>December</b>	1,433,100	1,227,900	1,627,900
<b>Year To Date Totals Gallons Processed</b>		2019	2020	2021			
		17,283,590	16,891,400	18,297,450			
Wastewater Effluent Monitoring							
<b>Total BOD 5-day</b>	<i>Organic Loading Rates (Permit Range <math>\geq 85\%</math>)</i>						
Weekly Test	4 - Tests		98.6% removal				
<b>TSS</b>	<i>Total Suspended Solids, non organics (Permit Range <math>\geq 85\%</math>)</i>						
Weekly Test	4-tests		94.8% removal				
<b>pH</b>	<i>(Daily min/max permit range equal/between pH 6 and pH 9)</i>						
Weekly minimum	Mon-Fri		6.8				
Weekly Maximum	Mon-Fri		7.7				
<b>Fecal Coliform Bacteria</b>	<i>(Permit Range Weekly <math>\leq 100</math>; Monthly <math>\leq 200</math>)</i>						
Monthly geometric mean	4-tests		42.0				
<b>Dissolved Oxygen</b>	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		8.1 Maximum				
<b>Temperature</b>	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		12.6 Degrees C Average				
<b>Ammonia</b>	<i>Monthly – Report Only</i>						
8/26/2021	1 sample		0.07				
<b>December Notes:</b> <i>Wastewater processed is at a three year high.</i>							

## PARKS & RECREATION

📌 Mayor Hook and I met with Douglas PUD, and representatives of the Lakeshore Motor Inn. The meeting was productive, and we were able to hammer out some of the final details of the project. SEE ATTACHED preliminary plans with notes. The PUD plans to go out to bid on the project this spring with an extended bid period to hopefully get some good bids. Lead time on materials continue to remain high as do uncertainties in the construction industry. We have chosen to wait until after the summer tourist season to start the project, as we do not want to be disruptive the motel business. We expect to start right after Labor Day and finish the project within 3-4 weeks. Project notes:

- Trail will be standard trail width of 8'0" in front of City Hall but will narrow to 6'0" (sidewalk width) in front of motel property.
- Because of the width and closeness to the bank, winter maintenance and snow plowing may not be possible along this stretch of trail, and bicyclist will be asked to walk their bikes, as two cannot safely pass.
- The two large spruce will be removed in front of City Hall, along with several other trees within the footprint of the project. Angela and I worked on a list of suitable replacement trees, which the PUD will plant.
- The City will be making repairs/remodel to the sprinkler system in front of City Hall, and will extend sprinkler system from Ives Landing to cover replacement tree.
- Bollards and chain will be placed on property line between City Hall and empty lot owned by Gills and along trail to edge of motel.
- The trail will be fenced on the motel side of the trail, except in front of City Hall.
- The PUD is replacing the bulkhead for the motel dock, which will be gated and locked with keypad for motel guest use only.