

City of Pateros, Public Works & Parks

January 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 holidays through the first couple weeks of the new year public works focusses on catch-up projects, winterization, asset management & inventory, and snow removal. The weather dictates much of what we do. Staff usually takes some vacation time during this time of year, when it is a little slower, and the weather allows. We have had a fair amount of sick leave, as the flu, cold, and stomach bug has gone through the staff.

The Mayor hired David Hunter. Public Works is very happy to have him as part of the team. He comes highly recommended with over 15 years of public works experience. David has his CDL and has level II certifications in both water and sewer. I have spent some time re-allocating tasks, matching the skills of the new team to the public works required tasks and responsibilities. **See attached outlines of the four positions.**

We are always optimistic the first of the year on the number of projects that we can tackle and complete. We have a long list in 2020 we hope to accomplish, and the new member to the public works team should help us accomplish this.

ADMINISTRATIVE

We have received the final payment in the amount of \$44,314.6 from FEMA for the Carlton Complex Disaster Assistance.

STREET DEPARTMENT

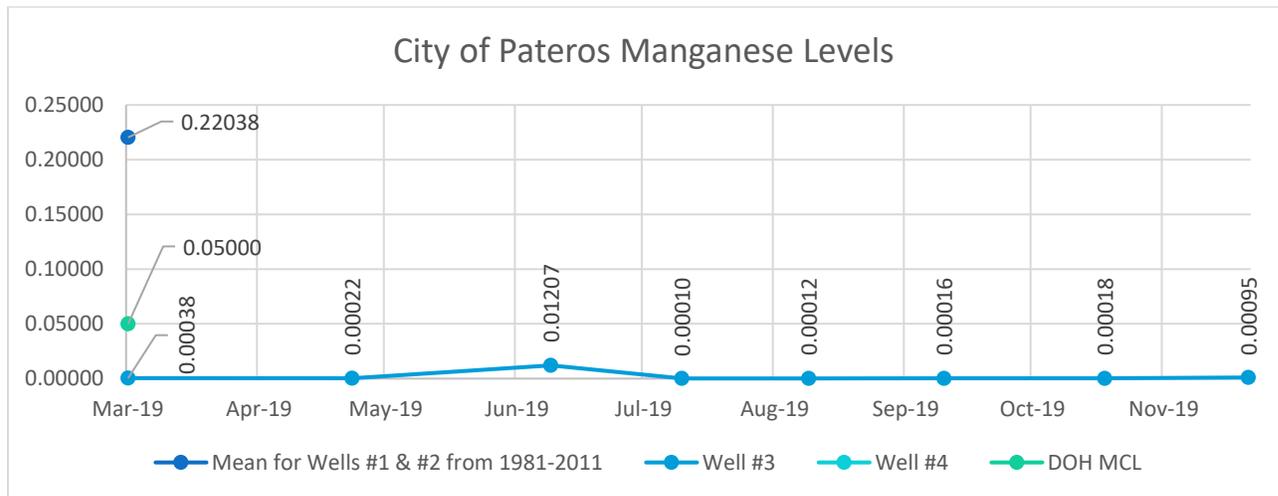
Street and sidewalk safety is a priority task with Public Works during the winter season. We are still fine-tuning the new magnesium chloride program. It has helped reduce snow and ice on the slopes, at the intersections and pedestrian walks. We adjust our anti-icing, de-icing, and snow removal activities in response to each weather event. We document all suggestions and complaints and use them to make improvements to our snow removal policies. The City website is updated so the public knows when we anticipate an early morning plow and can remove vehicles from the street. As per our policy, we assess daily and respond as required with sand and de-icer on hills, intersections and the downtown Mall. For snows falls over 2” we typically respond in the early morning hours to avoid traffic and have roads plowed so people can get to work and school. We do not plow or de-ice roads and walks on the weekends for snows less than 2” unless the conditions are exceptionally slick, such as during a freezing rain event. By code, it is the business responsibility to remove snow in front of their businesses along the Mall. The City does

this Monday through Friday, but if when a snow fall of less than 2” falls on a Friday night, snow removal and de-icing typically does not take place until Monday. A link to the snow policy can be found on the front page of the City website, and you are welcome to visit with me about it.

Easements and street vacation documents at Pateros Garden Apartments are ready for council. I have been communicating with the owners, Okanogan Housing Authority, appraisers, and surveyers regarding utilities and the purchase by the OHA.

WATER DEPARTMENT

Manganese levels remain very low in the water system.



Water Project

- Pump Station #4 is online. We intend to run Pump Station #4 for a full year as the lead pump during the warrantee phase. We have worked out most all of the telemetry and control issues of the pump station. The long-term operating plans are to run Pump Station #3 as the lead pump from November through April and Pump Station #4 from May through October as the lead pump.
- POW still has punch-list items remaining, the pump station is operating, and we will be processing the substantially complete paperwork. When this paperwork is complete, DOH will recognize the new pump station in our system, and will reassess the number of connections the City is allowed to sell.
- I have been working with Varela on the final phase of the Water Improvement Project. Our goal is to go out to bid by the end of March. I gave about a dozen tours of Pump Station #4 during the Christmas in the City event.
- I am working with Varela, POW, and the concrete subcontractor to resolve the cracking issues in the pavement on Lakeshore Drive. Negotiations are amicable at the present, and we are all working to a fair solution meets the expectations of the City.

City of Pateros Water Department Report

System ID **66450 C** Total Service Connections **278**
 Reservoir Capacity **565,000 gallons** Wells **2**

2019 WATER CONSUMPTION & TESTING REPORT							
	2018	2019	% in Change		2018	2019	% in Change
January	1,797,800	2,121,438	18%	July	17,454,000	18,968,280	9%
February	1,552,000	2,056,813	33%	August	14,152,900	16,600,547	17%
March	1,778,900	2,260,796	27%	September	10,192,700	8,729,598	-14%
April	2,963,400	4,503,629	52%	October	6,663,600	4,690,568	-30%
May	9,611,300	12,892,999	34%	November	2,076,600	2,178,552	5%
June	13,457,700	16,082,186	20%	December	1,867,529	1,918,369	3%
Year to Date Total Gallons	2018	2019	% in Change				
	83,568,429	93,003,775	10%				
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>						
12/11/2019	2 samples tested		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>						
12/1/2019-12/30/2019	Daily samples Mon-Fri		<i>Min Chlorine Levels is 0.20 at furthest point in system. Target levels 0.5 - 1.50 (4.0 State MCL)</i>				Average Chlorine Level 0.36

SEWER DEPARTMENT

Our new permit manager, Traci Gefre with Department of Ecology is scheduled to be at the treatment plant on Tuesday 1/21/2020 for a plant review. Mr. Gefre is scheduled to meet with the council that night and present a performance award for the sewer plant.

I met with Cory Riggin, Apple House Manager, and Tory Wulf with Gebbers Farms to review the Apple House Pit sewer contract regarding process water they send to our wastewater treatment plant. Apple House has made significant changes and investment in how they process wastewater before sending it to us. This is something the City has been asking for, for many years.

The improvements they have made, have directly impacted and improved our ability to process wastewater. In 2018, Apple House sent the treatment plant the equivalent of 42 homes a day of flow, which is double the acceptable level. However, at times their overages of daily waste that must be processed reached over 10 times the acceptable level, or the equivalent of more than 420 homes plus. Levels of waste fluctuate greatly, and one day we might have to process the equivalent of an additional 50 homes, and the next an additional 400. After the installation of the new equipment, the fluctuations in waste levels have stabilized and are consistently staying at manageable levels.

Why is this important? All those equivalent homes that we must process limit our long-term capacity to treat wastewater. The Apple House waste stream has only risen over the years, and at some point, the levels become unmanageable and would force us to expand the plant for industrial waste purposes. It is in the City's interest to reserve that capacity for further housing or business development. More importantly, by stabilizing their waste stream, our system is better able to process the waste and meet the requirements of our Discharge Waste Permit.

Tory and I have reviewed the contract, and have come to a mutually beneficial agreement. The proposed amendment to the contract better reflects the monthly rate for waste they send at the lower levels. The proposal has financial incentives for them to maintain the new system and consistently send waste of acceptable levels. We have reduced the fees at the very upper levels in recognition of the investment they have made. With the new system, it will be very surprising if they ever reach these upper levels.

As part of the proposal, we asked that Apple House install an additional settling tank that would address the final missing step in stabilizing the waste stream. Tory and Evan of Apple House, Mike and I of the City, and Chad Short of Evergreen Rural Water met to come up with an acceptable solution. Chad reviewed our sampling process, numbers, and the new system and was very impressed with the operation. We agreed to a design of the new settling tank and Chad is helping source some of that equipment. Apple House has agreed to install this final piece. I am very pleased with the cooperation and progress we have made in the last five years with Apple House, and it will have a very positive impact on the future of the Sewer Department.

City of Pateros Sewer Department Report

Permittee: Pateros POTW

Permit #: WA0020559

Operator: Mike Lambert

2019 WASTEWATER PROCESS REPORT

	2018	2019	% in Change		2018	2019	% in Change
January	1,390,000	1,267,300	-8.8%	July	1,763,500	1,580,000	-10.4%
February	1,615,500	1,136,000	-29.7%	August	1,499,300	1,415,100	-5.6%
March	1,451,500	1,284,500	-11.5%	September	1,505,000	1,496,300	-0.6%
April	1,566,000	1,741,500	11.2%	October	1,545,500	1,611,290	4.3%
May	1,496,800	1,427,400	-4.6%	November	1,179,200	1,442,200	22%
June	1,596,800	1,448,900	-9.3%	December	1,164,200	1,433,100	23%
Year To Date Totals	2018		2019		% in Change		
Gallons Processed	17,773,300		17,283,590		-2.8%		
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		93% removal				
pH	<i>(Daily min/max permit range equal/between pH6 and pH9)</i>						
Weekly minimum	Mon-Fri		6.7				
Weekly Maximum	Mon-Fri		7.1				
Fecal Coliform Bacteria	<i>(Permit Range Weekly \leq 100; Monthly \leq 200)</i>						
Weekly geometric mean	4-tests		3.7				
Monthly geometric mean	4-Tests		3.7				
Dissolved Oxygen	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		7.6 Maximum				
Temperature	<i>Daily – Report Only</i>						
Daily Test	Mon-Fri		14 Degrees C Average				
Ammonia	<i>Monthly – Report Only</i>						
12/13/2016	1 sample		0.07				

December Notes:
Plant has been running well. Our process numbers are good. Winter maintenance is underway.

PARKS

- 🗑️ Snow and ice management is a priority. This is Ryan's first season managing the mall, trails, sidewalks, and the new pump station.
- 🗑️ Ryan installed the tank and spray system on the Bobcat for the magnesium system. This system will be modified in the spring to allow for pesticide management.
- 🗑️ Ryan has been trained in daily sewer lab procedures, and his Operator in Training application is on file with Department of Ecology.
- 🗑️ As Doug has been out with illness, Ryan has covered the daily detail of the water department, and responded to water related work orders.
- 🗑️ Ryan has been prepping for his pesticide license.
- 🗑️ The seasonal lights were a hit this year, Ryan did an outstanding job. We were setup to take down the holiday banners on the first week of January, and the rented lift battery failed. We are now at the mercy of the weather in removing the holiday banners.

The White Board Tasks at Public Works & Parks

COMPLETED

Snow/Ice Management
 Installed magnesium tank and spray
 system on Bobcat
 Public generated work orders
 Prepped Sewer Plant for ECY
 inspection
 Hydrants drained
 Meters Insulated

IN-PROGRESS

Insulate meters
 Drain hydrants
 Removal of holiday lights & banners

HIGH PRIORITY

Snow & Ice removal

PERPETUAL CALENDAR

Snow & Ice removal
 Service equipment
 Winter projects