



# City of Yachats

WASTEWATER DEPARTMENT

500 W. 7<sup>th</sup> St.

P.O. Box 345

Yachats, OR 97498

February 7, 2017

Re: Wastewater Department Inflow & Infiltration (I & I) inspection on January 19, 2017.

Joan,

The Wastewater crew completed an I & I inspection on January 19, 2017 during the hours of 1am to 5:30 am. All nine basins were checked by pulling covers off twenty-nine manholes. Twelve of those manholes are standard inspection points where basins intersect with a main trunk line that flows to a pump station.

The results are as follows:

3.81 inches of rainfall the previous seventy-two hours.

340 gallons per minute (gpm) coming into the main pump station from town.

Est. ground water I & I per basin in gallons per minute:

Basin#	gpm
A.	110 gpm North of Marine Drive
B.	23 gpm
C.	10 gpm
D.	Unknown
E.	20 gpm
F.	40 gpm
G.	Unknown
H.	90 gpm South of the bridge
I.	30 gpm



Basins with obvious deficiencies were basins A, F, H and I. Basin F is included due to an estimated twenty-six-gallon leak from a pipe joint separation just before the Riverside pump station.

Multiple manholes showed 0.5-1.0 gpm leakers. Some others had more.

South of the bridge needs to be cleaned do the excessive amount of grit in the sewer pipe.

Parkside pump station was receiving approximately 120 gpm of ground water. This amount was more than one third the total flow coming into the Wastewater Treatment Plant.

One section of pipe South of Lily Lane showed an estimated 15 gpm.

One section of pipe on Green Hill Drive showed 13 gpm.

One section of pipe on West 2<sup>nd</sup> St. showed 13 gpm.

One section of pipe on Aqua Vista Drive showed 7gpm.

One section of pipe on Hwy 101 N. showed 10 gpm.

I suggest we focus the rest of 2016-17 fiscal year and 2017-18 on the two basins (H & I) South of the bridge. Those two basins are pumped to Riverside pump station then to the Main pump station where it then is pumped third time to the treatment plant. Doing so would cause a serious reduction of pump run time would result in a savings of maintenance and energy costs.

Basin A which had an approximate flow of 110 gpm, flows directly to the Main pump station and is pumped to the treatment plant. No added benefit other than less flow to the plant.

We should also continue to 'pick the low hanging fruit'. The easy manhole repairs.

I will be sending out "Private Sewer Lateral Repair" notices this month to the known sewer lateral leakers. There will be a change. Due to the financial burden of a sewer lateral repair, Joan and I have decided to give extra time for the repair. That date will be July 31, 2018. This should give homeowners time to secure financing if needed.

If you have any questions, feel free to call.

David A. Buckwald  
Principal Operator  
Wastewater Department  
City of Yachats  
Dave@YachatsMail.org