



Dana Nichols <dnichols@ci.bandon.or.us>

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## Gravel Point: Impact on Utilities

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S Major <smajor@dierpart.com>

Tue, Sep 19, 2023 at 11:48 AM

To: Dana Nichols <dnichols@ci.bandon.or.us>

Cc: "Public Works (publicworks@ci.bandon.or.us)" <publicworks@ci.bandon.or.us>

Dana,

We have reviewed the water and sewer systems, from a capacity standpoint, that will serve the proposed development. The following is a summary of our findings:

1. Water System – The Water-CAD model was adjusted to show the proposed 10-inch diameter water line in lieu of the existing 6-inch diameter. Attached is a map showing the before and after water flows. Before flows were estimated at 1,350 gpm and after improvements 1,935 gpm. We did not model the system with an additional connection on Lincoln Avenue. Assume the larger buildings will be sprinkled but not sure what their required fire flow will be. We can review other scenarios if needed.
2. Sewer System – The proposed development will connect to the 8-inch diameter sewer line on Beach Loop Road. This line terminates at the Johnson Creek Pump Station which was rehabilitated in 2007. Pump run times were reviewed for the calendar year of 2022. The maximum run time per day was in May at 11.5 hours and the lowest run time per day was in November at 1.2 hours. This equates to 207,000 gpd and 21,600 gpd, respectively. The capacity of the pump station is 324,000 gpd assuming the total pump run time is eighteen hours. Do not anticipate the new development would generate over 100,000 gpd during a special event.

Let me know if you need any additional information.

Thanks

Steve

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 **GravelPointWaterFlows.pdf**  
1082K



Existing 10-inch Water Line

Existing-1,528 gpm  
Proposed-1,896 gpm

Existing-1,437 gpm  
Proposed-1,925 gpm

Existing-1,350 gpm  
Proposed-1,935 gpm

New 10-inch Water Line

Existing-1,400 gpm  
Proposed-1,984 gpm

Existing- 1,789 gpm  
Proposed-2,042 gpm

Existing 12-inch Water Line

New Development