

November 5, 2019
W-P Project No. 20174A

Matthew Garside
Poland Town Manager
1231 Maine Street
Poland, ME 04274

Subject: Refined Cost Estimates
Route 26 and Route 122 Water and Sewer Main Extensions

Dear Mr. Garside:

On behalf of Wright-Pierce, the following report details the tasks and results of a refinement of cost estimates for proposed projects selected from a previous study by the Town of Poland for further evaluation. The projects being considered include:

- Extend sewer from the current terminus on Route 26 just south of the Top Gun store north to Cyndi's Dockside restaurant.
- Extend water from its current terminus on Route 26 south to Shaker Hill Outdoors.
- Extend water from its current terminus on Route 122 east to Oldcastle Lawn & Garden.

Our scope of services included the following tasks:

- Engage each of the major businesses along the proposed route to understand their specific needs related to water and sewer.
- Evaluate the advantages and/or disadvantages of providing alternative water service such as use of smaller mains or constructing storage at the end of the extension for fire and domestic storage needs.
- Working with the Town, canvass other potential customers along the extension to determine the interest in connecting.
- Estimate cost of water/sewer service to prospective abutters. Coordinate with the Auburn Water & Sewer District (AWSD) in development of costs.
- Updated cost estimates for each selected project based on the findings from the prior tasks.

The results of each task are described herein.

Business Needs

To aid in refining the cost for each project, we contacted each business related to the proposed projects to discuss their specific needs for either water or sewer service. Each business was asked to provide an estimate of anticipated water demand or amount of sewage that would be generated from their business respectively; provide an indication as to when they need water/sewer service; if business expansion is



expected as a result of the extension of water/sewer service; and whether or not the business would be willing to contribute to the project to offset costs.

Responses were received from Cyndi's Dockside Restaurant and Poland Springs Resort (both owned by Cindi Robbins), Oldcastle Lawn & Garden, and Shaker Hill Outdoors and are summarized below. **Attachment 1** summarizes the responses in tabular form.

Cyndi's Dockside Restaurant and Poland Springs Resort

Cyndi's Dockside Restaurant and Poland Springs Resort indicated that sewage generation is at its highest during the months of May – October from tourism. Cyndi's Dockside estimated that sewage flows average 2,500 gallons per day (gpd) during May-October, while the Poland Springs Resort reported that sewage generation during this period can be as high as 31,500 gpd. If sewer service were extended as far as Cyndi's Dockside Restaurant, they indicated that they would add dishwashing services and estimated that sewer flows would double to approximately 5,000 gpd while the Poland Springs resort would consider adding additional bedrooms/rental units.

Oldcastle Lawn & Garden

The Oldcastle Lawn & Garden business consists of three buildings. They currently obtain potable water from three groundwater wells. Fire service is provided by a booster pump station which withdraws water from a small pond onsite. The booster pump station supplies 1,000 gallons per minute (gpm) of water @ 60 psi to the sprinkler systems within each building. Oldcastle Lawn & Garden estimated their average day water demand, which consists of both domestic and production needs, to be approximately 7,500 gpd with a maximum day demand of 10,000 gpd. Their 2018 total domestic/production water use was approximately 2.75 MG.

If the Town were to extend water service to their business, their intent would be to use the water for all their domestic, production, and firefighting needs. They requested that a fire hydrant be installed at their property for added protection if the existing sprinkler system was inoperable in an emergency event.

Prior to making a commitment to connecting to the towns water system, Oldcastle Lawn & Garden indicated that they will need to complete a cost analysis to determine if connecting to the Towns water system makes economic sense. Oldcastle Lawn & Garden does not currently have any future expansion plans and indicated that the market would drive this decision. Furthermore, they indicated that they do not have a timeline driving the need for water service but that new water service would alleviate concerns of future fire events. Oldcastle Lawn & Garden indicated that they are currently one of the top taxpayers in Town and as such do not feel obligated to share in the cost for the project.

Shaker Hill Outdoors

Shaker Hill Outdoors' peak demand period is between April and November. Their current water needs are provided from two wells on-site. One well fills water storage tanks that provide water to the greenhouse; the other well is used for the house and retail store. During the peak demand period, they estimated needing a maximum day demand of 8,000 gpd for current operations. They did not say whether the business had future plans for expansion.



If the Town were to extend water service to their business, and assuming adequate flow and pressure was provided, they indicated that they would likely add to their existing automated plant watering system. They are also hoping that the new service would have adequate capacity for firefighting as they currently have no fire protection capabilities.

Shaker Hill Outdoors indicated they expected water service back when the original South Village system was installed. However, their understanding was that water service was stopped during the project at its current location as a cost saving measure. Therefore, they said that they do not intend, nor do they feel obligated to contribute to the project's costs. They indicated that Town Selectmen told them in the past that they shouldn't have to pay to extend the water main to their business.

Abutter Considerations

In addition to canvassing the major businesses who are the primary driver for each project, we assisted the Town in surveying all abutters to each project to determine; (1) if they would be in favor of the project; and (2) if they were interested in connecting to the water or sewer system assuming the projects moved forward. A total of 32 questionnaires were mailed to abutters on October 11, 2019. To date, a total of 12 responses have been received. The response breakdown per project is as follows:

- Route 26 sewer extension to Cyndi's Dockside Restaurant: 4 responses
- Route 26 water extension to Shaker Hill Outdoors: 3 responses
- Route 122 water extension to Oldcastle Lawn & Garden: 5 responses

Refer to **Attachment 2** for the responses to the questionnaires received. The following summarizes the responses to each project.

Route 26 Sewer Extension to Cyndi's Dockside Restaurant

The four responding abutters were in favor of the project. However, only three responders indicated interest in connecting to the sewer main depending on the cost, while one was not interested at this time because there is no residence on the property.

Based on the responses received we have assumed an additional sewage flow of 675 gpd for three new connections based on the assumption that each home consists of three people, and each person uses 75 gpd of water, for a total of 225 gpd per connection.

Route 26 Water Extension to Shaker Hill Outdoors

Responders support for the project was split. Two responders were in favor of the project but would like to know the cost of connecting. The other responder was not in favor, citing that the project passes vacant land not requiring service.

Based on the responses received we have assumed an additional water demand of 225 gpd for one connection based on the assumption that the single home consists of three people, and each person uses 75 gpd. We assumed one home will connect because there is only one house besides Shaker Hill Outdoors along the proposed project route.



Route 122 to Oldcastle Lawn & Garden

Four of the five responders were in favor of the project. However, two responders indicated that they would not connect to the proposed water main and would remain on their own wells. Based on the responses received we assumed an additional domestic demand of 1,125 gpd based on the assumption of five new house connections and each home consists of three people, each using 75 gpd. While there appears to be approximately 20 homes along the proposed water main extension, we assumed only five homes will connect because of the historically low interest in connecting to existing South Village water system.

Usage Rates and Fees

The AWSD provided a summary of their water and sewer rates that would be charged to new customers. A copy of AWSD's water and sewer rate and fee schedule is included in **Attachment 3**.

Water rates include a flat fee for the first 400 cubic feet of water used per month. For amounts used between 401 to 3,000 cubic feet, an additional charge of \$2.68 per 100 cubic feet of water used would be charged. As water use increases, water rate continues to decrease (aka declining block). Assuming a typical residential customer uses 225 gpd or approximately 6,750 gallons per month, with a 5/8-inch meter, a residential customer could expect to pay approximately \$28/month or \$83/quarter.

Sewer charges include a capacity demand charge as well as a usage charge. Capacity charges vary depending on the size of the water meter and start at \$15.72/month for a 5/8-inch meter, typical for a residential user. Usage rate is \$3.16 per 100 cubic feet of water used with no minimum. Other charges include a new sewer connection inspection fee of \$50 and a one-time Minimum Sewer Connection Fee which depends on water meter size and sewer pipe capacity. Minimum Sewer Connection Fee's start at \$750 for a 5/8-inch meter. Assuming a typical residential customer uses 225 gpd or approximately 6,750 gallons per month, with a 5/8-inch meter, a residential customer could expect to pay approximately \$45/month plus an additional inspection fee and Minimum Sewer Connection Fee of \$50 and \$750 respectively. Commercial/industrial users may also be charged a surcharge fee if they discharge higher than average concentrations of biological oxygen demand (BOD) and total suspended solids (TSS).

Project Evaluation

The cost estimates provided in the previous study were based on the concept layouts and are to be considered conservative and budgetary for planning purposes only. To further refine the prior cost estimates, we considered the responses obtained from both businesses and abutters and modified the original concepts accordingly to account for differences not previously understood, primarily adjustments to flow.

For the two water extension projects, we used a hydraulic computer model to evaluate flow requirements and refine pipe size needed to provide adequate service. We also considered alternatives such as the use of smaller mains in conjunction with the addition of storage at the end of the extension for fire and domestic storage needs.



Generally, where there were changes in flows, pipe and pump sizes may have changed. Items such as ledge quantities and permitting (particularly MDOT) cannot be refined without subsurface borings and extensive coordination with regulating authorities.

Route 26 Sewer Extension to Cyndi's Dockside Restaurant

The original project concept was the extension of sewer service along Route 26 from the existing pump station located just south of Top Gun, north to Cyndi's Dockside Restaurant. It included approximately 6,200 feet of gravity sewer main, 4,500 feet of forcemain, and a pump station.

The original estimate included the following assumptions:

- All gravity and forcemain sewers can be constructed completely off the existing roadway, thus minimizing the amount of state highway restoration. The cost for the construction of gravity sewer was \$300 per linear foot and the cost for force main sewer was \$150 per linear foot.
- Gravity sewer main was assumed to be 12-inch PVC pipe.
- Forcemain sewer was assumed to be 4-inch PVC or HDPE pipe.
- \$1M was allocated for the pump station.
- 5% to 10% of the total excavated trench volume would require ledge removal at \$125 per cubic yard.
- 35% of the estimated conceptual construction cost was allocated for engineering, permitting, and contingency.

In our conversations with the Poland Spring Resort, they provided details of the location of their sewer leachfield across Route 26 which is where they would connect to the proposed sewer system. The location of this sewer was previously unknown based on its location, the lengths of sewer and forcemain have been revised to approximately 5,750 linear feet of sewer main and 5,500 linear feet of forcemain. This change will be reflected in the revised estimate.

Based on the new information collected from the businesses and residents and as discussed previously, sewer flows were revised to 31,500 gpd. Sewer capacity of the existing South Village collection and pumping system was reviewed to verify that the existing sewer system has capacity to receive the projected sewage flows. Based on our evaluation, it appears that the existing system has capacity to receive additional flow from the proposed sewer extension. Note that we have requested actual pump use data from the AWSD to confirm our findings; to date we have not received this information.

As a result of the revised sewage flow, the following changes were made to the original cost estimate:

- The gravity sewer main was reduced from 12-inches to 8-inches in diameter. Accordingly, we have reduced the original construction cost from \$300 per foot for 12-inch sewer to \$275 per foot for 8-inch sewer.
- The capacity of the pump station was reduced. Accordingly, we have reduced the cost of the proposed pump station from \$1M to \$500,000.



Route 26 Water Extension to Shaker Hill Outdoors

The original project concept was the extension of water service from its current terminus on Route 26 south to Shaker Hill Outdoors. It included approximately 800 feet of water main and a booster pump station. The original estimate included the following assumptions:

- Water mains can be constructed completely off the existing roadway at a cost of \$200 per linear foot.
- Water main was assumed to be 12-inch ductile iron pipe.
- \$700,000 was allocated for a booster pump station with capacity for domestic and fire protection.
- 10% of the trench volume was assumed to require removal of ledge at a cost of \$125 per cubic yard.
- 35% of the estimated conceptual construction cost was allocated for engineering, permitting, and contingency.

Based on the new information collected from the business and residents as discussed previously, water demand was estimated to be 8,225 gpd. This change did not alter the capacity of the proposed booster pump station, but we did modify the style of station resulting in a reduction in cost. In addition, the size of the water main was reduced from 12-inch to 8-inch in diameter.

We also evaluated impacts to water quality as a result of the extension because the AWS D expressed concern that the water main extension would further impair the water quality in the main. AWS D currently uses bleeders at the end of the existing main to move water through the system and reduce water age. Based on water age modeling, the proposed project would increase water age approximately 5 – 15 hours depending on demand.

As an alternative, we considered the use of a smaller capacity booster pump station and water main which would pump to a water storage tank located at or above the Shaker Hill Nursery. However, this alternative was discounted because added storage would compromise water age and quality and the cost of storage would exceed the cost of a water main and pump station. There are already concerns of diminished water quality in the system because of low use.

As a result of the changes noted above, the following changes were made to the original cost estimate:

- The water main was reduced from 12-inches to 8-inches in diameter. Accordingly, we have reduced the original construction cost from \$200 per foot for 12-inch water main to \$175 per foot for 8-inch water main.
- The booster pump station capacity was decrease/increased. However, we have altered the style of station which reduces the cost from \$700,000 to \$400,000.

Route 122 to Oldcastle Lawn & Garden

The original project was the extension of water main from the existing water system near Empire Road east to Oldcastle Lawn & Garden. It included approximately 4,600 linear feet of water main. The original estimate included the following assumptions:

- Water mains can be constructed completely off the existing roadway at a cost of \$200 per foot.



- Water main was assumed to be 12-inch ductile iron.
- 5% of the trench volume was assumed to require ledge removal at a cost of \$125 per cubic yard.
- 35% of the estimated conceptual construction cost was allocated for engineering, permitting, and contingency.

Based on the new information collected from the business and residents as discussed previously, water demand was estimated to be 11,125 gpd. In addition, Oldcastle Lawn & Garden requires a fire flow of 1,000 gpm at 60 psi residual pressure.

In order to meet these requirements, a 12-inch water main is required from the existing water system; no changes are required to the existing pump station. However, the normal operating pressure in this section of main will see pressures over 120 psi. Normal system pressures should be between 60-80 psi. We recommend that a pressure reducing valve and by-pass be provided at the connection to the existing system to maintain normal pressures between 60-80 psi. In the event of fire demands, the by-pass would open to supply the required pressure and flow to Oldcastle Lawn & Garden. We suggest that pressure reducing valves be required on the service line for each residential service to protect the service during fire flow and high pressure.

We also evaluated impacts to water quality as a result of the extension because the AWSD expressed concern that the water main extension would further impair the water quality in the system. AWSD currently uses bleeders at the end of the existing main to move water through the system and reduce water age. Based on water age modeling, the proposed project is unlikely to impair water quality because of the increased demand to Oldcastle Lawn & Garden.

As an alternative, we considered a smaller water main which would fill a storage tank at Oldcastle Lawn & Garden. However, this alternative was discounted because added storage would compromise water age and quality and the cost of storage would exceed the cost of a water main alone.

The evaluation above resulted in the following changes to the original cost estimate:

- Addition of a pressure reducing valve and vault is estimated to cost \$50,000.

Revised Cost Estimates

Original and revised cost estimates, based on the above analysis, are presented in **Table 1**.



**TABLE 1
 PROJECT SUMMARIES**

Project	Major Project Components	Original Project Cost Estimate*	Refined Project Cost Estimate*	Potential Permitting
Route 26 Sewer Main (North)	<ul style="list-style-type: none"> • Gravity sewer • Forcemain Sewer • Sewer Pump station • Property for Sewer Pump Station 	\$5,100,000**	\$4,160,000**	<ul style="list-style-type: none"> • Waterfront Buffer • Wetlands Buffer • MDOT
Route 26 Water Main Extension (South)	<ul style="list-style-type: none"> • Water main • Booster pump station • Property for Booster Pumping Station 	\$1,175,000**	\$750,000**	<ul style="list-style-type: none"> • MDOT
Route 122 Water Main Extension (East)	<ul style="list-style-type: none"> • Water main 	\$1,275,000	\$1,350,000	<ul style="list-style-type: none"> • Wetlands Buffer • Inland Waterfowl • MDOT

* Includes 35% engineering and permitting contingencies.

** Does not include land acquisition or legal costs to obtain property.

We trust that you find this information helpful as you deliberate the towns future infrastructure needs. We look forward to assisting you as the projects continue to develop. Should you have any questions, feel free to contact Rob Williamson (207) 523-1403 or at rob.williamson@wright-pierce.com.

Sincerely,
 WRIGHT-PIERCE

Robert J. Williamson, PE
 Senior Project Manager
rob.williamson@wright-pierce.com

WRIGHT-PIERCE

Collin A. Stuart, PE
 Project Engineer
collin.stuart@wright-pierce.com

Attachments

Attachment #1

**ATTACHMENT #1
BUSINESS NEEDS QUESTIONNAIRE RESULTS**

Question	Oldcastle Lawn & Garden	Shaker Hill Outdoors	Cyndi's Dockside Restaurant
What daily flow rate or volume would you require or anticipate using/needng?	<ul style="list-style-type: none"> • 3 buildings with restrooms and breakrooms • Used approximately 2.75 MG last year for production • Estimated 7,500 gpd ADD • Estimated 10,000 gpd MDD 	<ul style="list-style-type: none"> • Demand varies by season • April - November: Approximately 6,000-8,000 gpd • Winter: domestic demand for store and house 	N/A
What daily sewage flow/volume would be generated?	N/A	N/A	<ul style="list-style-type: none"> • Flow varies by season • May – October: <ul style="list-style-type: none"> ○ Maine Inn – 15,440 gpd ○ Presidential Inn – 7,500 gpd ○ Lodge – 7,000 gpd • Dockside - existing 2,500 gpd; future 5,000 gpm
If water was extended to your business, would you expand/enhance the business and require even more water? If so, when and what amount do you foresee needing?	<ul style="list-style-type: none"> • Expansion would be market driven • Unknown at this time 	<ul style="list-style-type: none"> • Would like to add to existing automated watering system if adequate flow and pressure were available. 	N/A
If sewer was constructed, would you expand/enhance the business? If so, when and how much of an increase in sewer flow is anticipated?	N/A	N/A	<ul style="list-style-type: none"> • Would add dishwashing service, potentially add more services. • Resort would consider expanding • Would consider adding four cottages to sewer depending on cost (2,3,7,6 bedrooms)

Question	Oldcastle Lawn & Garden	Shaker Hill Outdoors	Cyndi's Dockside Restaurant
If water was extended to your business, would you require volume for fire protection? If yes, would you prefer it be provided by the system from hydrants or do you have water storage capabilities?	<ul style="list-style-type: none"> • Yes, to fire protection • Sprinkler system operates at 1,000 gpm @ 60 psi • No current storage facilities • Would prefer a hydrant on property 	<ul style="list-style-type: none"> • Hydrant • No water storage capabilities 	N/A
Is there a timeline for when service is needed? What is driving this timeline?	<ul style="list-style-type: none"> • No timeline 	<ul style="list-style-type: none"> • Immediate • It has been needed for the past 12 years 	N/A
Do you expect to have to contribute to the costs to extend the utility to your business?	<ul style="list-style-type: none"> • Do not expect to have to contribute to cost • Currently one of the top taxpayers in Town 	<ul style="list-style-type: none"> • Do not expect to have to contribute to cost • Were a part of original project but project stopped short to save cost • Was not expected to contribute in the original project • Town Selectmen agreed that they wouldn't need to pay to extend the water line originally 	<ul style="list-style-type: none"> • Need more information regarding connection fee and sewage rate
Describe the current business, sales volume, market share, etc.?	<ul style="list-style-type: none"> • Sales last 12 months: \$21,208,030 • Payroll: \$2,948,201 (42 employees at Poland plant, 13 employees in Northeast Regional Office also based at the Poland location) • Poland location is #2 in share for packaged lawn and garden products across the country • Raw Material Purchases: Soil: 50,000 tons @ \$625,000, Mulch: 159,000 tons @ \$3.8M 	<ul style="list-style-type: none"> • A garden center and outdoor recreation retail store • Have thousands of plants on the property that require daily watering between April and November 	<ul style="list-style-type: none"> • Both companies are private • Chose not to provide financial information • Restaurant is year-round taxpayer and boat rental location • Resort includes golf course, 3 Inns, 2 restaurants, and entertains 25,000 tourists/year • Don't know exact market share but play a large role in community economics

Question	Oldcastle Lawn & Garden	Shaker Hill Outdoors	Cyndi's Dockside Restaurant
			<ul style="list-style-type: none"> • Employ 30 full time employees and 140 part time staff
Added Comments	<ul style="list-style-type: none"> • Current system: 3 wells, fire pond, and booster station • Need to complete a cost analysis to determine the economic benefits of connecting to the Town system or continuing to operate as is. 	N/A	<ul style="list-style-type: none"> • Currently use septic system and paper plates in peak season

Attachment #2

Subject: Route 26 Sewer Extension North from Top Gun to Cindi's Dockside Restaurant

To Whom It May Concern,

The Town of Poland is considering extending the existing sewer main on Route 26 from its current terminus near Top Gun north to Cindi's Dockside Restaurant. This is just one of the water and sewer improvement projects being considered by the Town. You are receiving this notification because you own property along the proposed project route and could potentially benefit from the project by being able to connect to the proposed water main.

We are inquiring as to your interest in connecting to the proposed sewer main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential sewer flows to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

- If the project moves forward and is constructed, would you be interested in connecting to the proposed sewer main?

Please return this questionnaire to the Town of Poland in the self-addressed stamped envelope included.

The Town has hired the firm Wright-Pierce to help the town ascertain the projects under consideration and their benefit to the community. If you have any questions regarding this questionnaire and/or the proposed project, please contact Collin Stuart, P.E. at Wright-Pierce at collin.stuart@wright-pierce.com or 603-570-7123.

Subject: Proposed Route 26 Sewer Extension North from Top Gun to Cindi's Dockside Restaurant

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The Town of Poland is considering extending the existing sewer main on Route 26 from its current terminus near Top Gun north to Cindi's Dockside Restaurant. This is just one of the water and sewer improvement projects being considered by the Town. You are receiving this notification because you own property along the proposed project route and could potentially benefit from the project by being able to connect to the proposed sewer main.

We are inquiring as to your interest in connecting to the proposed sewer main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential sewer flows to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

Yes, how will this affect my taxes?

- If the project moves forward and is constructed, would you be interested in connecting to the proposed sewer main?

No, presently a wood lot.

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Thank you.

Subject: Proposed Route 26 Sewer Extension North from Top Gun to Cindi's Dockside Restaurant

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We are inquiring as to your interest in connecting to the proposed sewer main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential sewer flows to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

Yes. Will be easier to maintain sewer and gray water discharge, Property is close to Middle Range Pond.

- If the project moves forward and is constructed, would you be interested in connecting to the proposed sewer main?

Yes.

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We are inquiring as to your interest in connecting to the proposed sewer main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential sewer flows to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

yes

- If the project moves forward and is constructed, would you be interested in connecting to the proposed sewer main?

yes

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We are inquiring as to your interest in connecting to the proposed sewer main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential sewer flows to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

Yes

- If the project moves forward and is constructed, would you be interested in connecting to the proposed sewer main?

Most likely. Depends on Cost.

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Thank you.

Subject: Route 26 Water Main Extension

To Whom It May Concern,

The Town of Poland is considering extending the existing water main located on Route 26 from its current terminus to Shaker Hill Nursery. This is just one of the water and sewer improvement projects being considered by the Town. You are receiving this notification because you own property along the proposed project route and could potentially benefit from the project by being able to connect to the proposed water main.

We are inquiring as to your interest in connecting to the proposed water main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential water demand to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

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The Town has hired the firm Wright-Pierce to help the town ascertain the projects under consideration and their benefit to the community. If you have any questions regarding this questionnaire and/or the proposed project, please contact Collin Stuart, P.E. at Wright-Pierce at collin.stuart@wright-pierce.com or 603-570-7123.

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We are inquiring as to your interest in connecting to the proposed water main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential water demand to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

NO NOT AT THIS TIME. VACANT LAND ONLY.

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

NO NOT AT THIS TIME

Please return this questionnaire to the Town of Poland in the self-addressed stamped envelope included.

The Town has hired the firm Wright-Pierce to help the town ascertain the projects under consideration and their benefit to the community. If you have any questions regarding this questionnaire and/or the proposed project, please contact Collin Stuart, P.E. of Wright-Pierce at collin.stuart@wright-pierce.com or 603-570-7123.

Thank you.

Subject: Proposed Route 26 Water Main Extension

To Whom It May Concern,

The Town of Poland is considering extending the existing water main located on Route 26 from its current terminus to Shaker Hill Nursery. This is just one of the water and sewer improvement projects being considered by the Town. You are receiving this notification because you own property along the proposed project route and could potentially benefit from the project by being able to connect to the proposed water main.

We are inquiring as to your interest in connecting to the proposed water main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential water demand to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

yes

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

Need a cost assessment

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- Would you be in favor of this project? If not, why not?

Yes - in favor

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

Yes as long as it's not cost prohibitive for the hookup.

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Thank you.

Subject: Route 122 Water Main Extension

To Whom It May Concern,

The Town of Poland is considering extending the existing water main located on Route 122 from its current terminus at Empire Road to Oldcastle Lawn & Garden. This is just one of the water and sewer improvement projects being considered by the Town. You are receiving this notification because you own property along the proposed project route and could potentially benefit from the project by being able to connect to the proposed water main.

We are inquiring as to your interest in connecting to the proposed water main and have included several questions below that we would appreciate your feedback on. Your responses will be considered by the Town to understand the need for the project by abutters, to determine the potential water demand to size the pipes, and for prioritizing the projects under consideration. Your responses to these questions are greatly appreciated and will assist the Town of Poland in their decision-making process.

- Would you be in favor of this project? If not, why not?

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

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- Would you be in favor of this project? If not, why not?

Yes

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main? *We are currently hooked up to water main however would be interested in hooking into sewer (if price is reasonable).*

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- Would you be in favor of this project? If not, why not?

do what ever you want.....

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

no, have a perfectly good well!

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- Would you be in favor of this project? If not, why not? *yes -
Can't Drink well water - Uranium level High*
- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main? *- yes, Depends on Cost To Home owners*

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- Would you be in favor of this project? If not, why not? YES
- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main? YES

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- Would you be in favor of this project? If not, why not?

No we have a well

- If the project moves forward and is constructed, would you be interested in connecting to the proposed water main?

No

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Thank you.

Attachment #3

STATE OF MAINE
PUBLIC UTILITIES COMMISSION
SCHEDULE OF RATES
OF
AUBURN WATER DISTRICT

Proposed Effective Date: March 1, 2017
Docket:


Superintendent, Auburn Water District

Signed: 1/30/17

QUARTERLY AND MONTHLY RATES OF WATER
TO METERED CUSTOMERS

QUARTERLY RATES:

For the First	1,200 cubic feet per quarter	\$42.45
For the next 7,800	(1,200 to 9,000 cu. ft. quarter)	\$2.68 per 100 cubic feet
For the next 21,000	(9,000 to 30,000 cu. ft. per quarter)	\$2.27 per 100 cubic feet
For all in Excess of	30,000 cubic feet per quarter	\$2.02 per 100 cubic feet


MONTHLY RATES:

For the First	400 cubic feet per month	\$14.15
For the next 2,600	(400 to 3,000 cu. ft. per month)	\$2.68 per 100 cubic feet
For the next 7,000	(3,000 to 10,000 cu. ft. per month)	\$2.27 per 100 cubic feet
For all in Excess of	10,000 cubic feet per month	\$2.02 per 100 cubic feet

MINIMUM CHARGES:

Size of Meter	Minimum Charge		Cubic Feet Allowance	
	Quarterly	Monthly	Quarterly	Monthly
5/8"	\$42.45	\$14.15	1,200	400
3/4"	\$66.55	\$22.18	2,100	700
1-Inch	\$106.75	\$35.58	3,600	1,200
1 and 1/2"	\$203.21	\$67.74	7,200	2,400
2"	\$333.36	\$111.12	12,600	4,200
3"	\$620.05	\$206.68	25,200	8,400
4"	\$971.80	\$323.93	42,000	14,000
6"	\$1,820.60	\$606.87	84,000	28,000
8"	\$2,851.28	\$950.43	135,000	45,000

Proposed Effective Date: March 1, 2017
Docket:


Superintendent, Auburn Water District

Signed: 1/30/17

PRIVATE FIRE PROTECTION

AVAILABLE:

To Customers using the District's service for private fire protection.
The following rates apply to fire protection only and include no allowance for water for other than fire fighting purposes.

RATES:

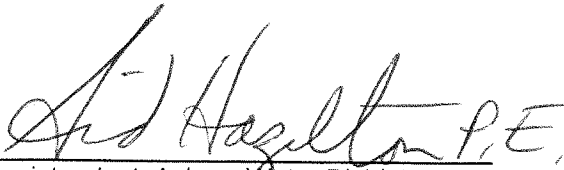
A charge per year of \$185.63 per inch of service pipe diameter for fire service connections to Auburn Water District Mains. (I)

Private hydrants shall be at a charge of \$185.63 per year

TERMS OF PAYMENT:

Charges for private fire protection shall be billed and payable in advance, billed either monthly or quarterly, depending on customer's billing frequency

Proposed Effective Date: March 1, 2017
Docket:



Superintendent, Auburn Water District

Signed: 1/30/17

SUMMER SEASONAL FLAT RATES

These rates are applicable to seasonal unmetered residential water services.

For each family, apartment, dwelling, cottage, or trailer, there shall be paid, service charges as follows:

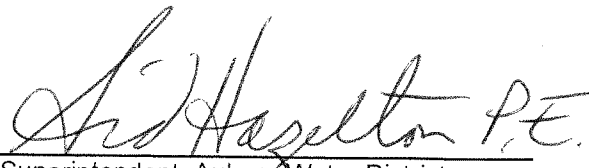
	Per Year
Basic Charge (1 outlet)	\$119.76 (I)
For each additional outlet	\$47.90 (I)

Charges will be made for up to a total of 3 (three) additional outlets. Water may be drawn through any faucet or outlet, other than those listed above, without further charge.

When more than one family uses the same fixture or fixtures in common, each family shall be charged at the applicable rate or rates set forth above.

Bills under this rate are net and will be due and payable upon presentation.

Proposed Effective Date: March 1, 2017
Docket:



Superintendent, Auburn Water District

Signed: 1/30/17

PUBLIC FIRE PROTECTION

Available:

To the City of Auburn and the Town of Poland for municipal fire protection.

Rate:

For the six hundred twelve (612) hydrants as installed October 1, 2016, a total amount of \$659,662 divided as follows:

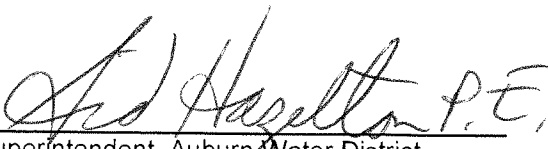
Auburn (587)	\$632,732 (I)
Poland (25)	\$26,930 (I)

For additional hydrants the charge shall be governed by rules set forth in Chapter 690.

Terms of Payment:

Charges for public fire protection shall be billed and payable quarterly in advance.

Proposed Effective Date: March 1, 2017
Docket:


Superintendent, Auburn Water District

Signed: 1/30/17

AUBURN SEWERAGE DISTRICT

RATE SCHEDULE

Effective February 1, 2016

CAPACITY DEMAND CHARGE:

All ratepayers will be subject to a demand charge for recovery of expenses associated with capital infrastructure (fixed cost). These expenses include the initial cost of collector sewers, pump stations and treatment facilities. The capacity demand charge will be based on the size of the domestic water meter. Rates are as follows:

<u>Meter Size</u>	<u>Quarterly Rates</u>	<u>Monthly Rates</u>
5/8"	\$47.16	\$15.72
3/4"	\$67.91	\$22.64
1"	\$120.75	\$40.25
1 1/2"	\$271.69	\$90.56
2"	\$482.98	\$160.99
3"	\$1,108.93	\$369.64
4"	\$1,931.93	\$643.98
6"	\$4,346.82	\$1,448.94

USAGE RATE:

All ratepayers will be subject to a usage charge for the recovery of expenses associated with the collection and treatment of wastewater (variable cost). There is no minimum for metered water used. The user charge will be based on the actual volume generated. The usage rate will be:

\$ 3.16 per 100 cubic feet (or 748 gallons)

FLAT SEWER:

Seasonal households with a connection to public sewer that do not have a meter, will pay a quarterly flat sewer fee of:

\$ 78.93 per quarter

INDUSTRIAL SURCHARGE FEE:

A surcharge over and above the regular usage charge will be assessed to industrial and commercial users who discharge higher than average concentrations of sewerage into the collection system. Surcharge will be established by sampling the effluent discharged.

BOD @ \$ 0.148 per Pound of BOD above 250 mg/l

TSS @ \$ 0.199 per Pound of TSS above 300 mg/l

SEWER CONNECTION INSPECTION PERMIT:

A sewer connection inspection fee shall be charged for each connection made to the sewer collection system. The sewer connection inspection fee shall be: **\$50.00 per connection**

MINIMUM SEWER CONNECTION FEE: (or ASSESSMENT FEE)

Minimum Sewer Connection Fees shall be as follows:

<u>Meter Size</u>	<u>Capacity (gallons per minute)</u>	<u>Fee</u>
5/8"	16	\$750.00
3/4"	24	\$1,125.00
1"	40	\$1,875.00
1 1/2"	80	\$3,750.00
2"	128	\$6,000.00
3"	240	\$11,250.00
4"	400	\$18,750.00

STORM DRAIN SEPARATION FEE: (or CAPACITY FEE)

Storm Drain Separation Fees shall be as follows:

<u>Meter Size</u>	<u>Capacity (gallons per minute)</u>	<u>Fee</u>
5/8"	16	\$750.00
3/4"	24	\$1,125.00
1"	40	\$1,875.00
1 1/2"	80	\$3,750.00
2"	128	\$6,000.00
3"	240	\$11,250.00
4"	400	\$18,750.00

INDUSTRIAL TREATMENT SAMPLING FEE:

An Industrial Treatment Sampling Fee shall be charged to all industries who have an Industrial Discharge License with the Lewiston Auburn Water Pollution Control Authority (LAWPCA). This fee shall be to recover the cost of Auburn's share of the Lewiston Auburn Water Pollution Control Authority Industrial Pretreatment Program. The fee is based on a cost sharing formula for all industrial users based on EPA guidance.

Category	Step	Annual Fee
Non-Categorical Discharge License - Flow < 25,000 gpd	A	\$ 1,550
Non-Categorical Discharge License - Flow > 25,000 gpd	B	\$ 3,300
Categorical Discharge License - Flow < 25,000 gpd	C	\$ 4,950
Categorical Discharge License - Flow > 25,000 gpd	D	\$ 6,700