

PIERS ISLAND IMPROVEMENT DISTRICT ANNUAL REPORT

(Drinking Water System Name)

Reporting Period:	January to December, 2020	
Operating Permit Number:	64000500	
Drinking Water System Owner:	Piers Island Improvement District	
Drinking Water System Contact:		
Trustee: Monique Joubarne Telephone: (778) 433-5155 Email: monique@piersisland.ca	Lead Operator.: Maureen Crooks Telephone: 250 656-9864 Email: Maureen@piersisland.ca	PIID Secretary: Velvet Warrior Telephone: 250 655-1101 Email: secretary@piersisland.ca

- 1 Microbiological testing completed during this reporting period:**
- a. bacteriological results are available from Operator or Secretary
 - b. adverse bacteriological results: None detected
 Listed in table below:

Adverse Results:

Date	Total coliform	E. Coli	Reason	Corrective Action
Mar. 3, 2020	16 CFU/100 ml		Believe this was a bad sample based on satisfactory results at other locations same date and robust chlorine residuals present at time of sampling.	Resampled Mar. 9, 2020, with satisfactory results.

- 2 Chemical results for this reporting period:**
- a. All recent chemical analysis are available from Operator or Secretary.
 - b. chemical parameters listed in *The Guidelines for Canadian Drinking Water Quality ("the Guidelines")* are:
 - all within Guidelines (Quarterly THM's).
 - above the Guidelines and are listed below:

Parameters above the Guidelines:

Parameter	Result	Max. Acceptable Concentration	Aesthetic Objective	Treatment/Corrective Action

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3 Summarize additional testing and sampling carried out in accordance with the requirement of a Water Source approval, Written Order or as per the conditions of your *Operating Permit*.

- no additional testing
 additional testing listed below:

Additional testing:

Description of parameter & reason for sampling	Health parameter or non-health related parameter	Corrective action necessary (Y/N?)	Corrective action taken
Annual Metal Scan at storage tank	Lead constituent did not meet Canadian and British Columbia drinking water standards.	Y, Maximum limit In Guideline is 5.00 ug/L	Sample was taken in error from tap with lead solder. Was resampled from tank directly and results were satisfactory.
	6.13 ug/L		<0.500 ug/L

4 Water Quality Complaints:

During the course of the year, the water system:

- did not receive water quality complaints (ie taste, odour, colour, etc)
 received water quality complaints and are listed below:

Water Quality Complaints:

Date	Water quality complaint	Corrective action taken

5 Adverse results: Total number of adverse results during this reporting period for insufficient water supply, malfunction of disinfection equipment or elevated turbidity:

- No adverse results
 Adverse results listed below:

Adverse Results:

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Incident date	Corrective action	Corrected by
Dec. 11 to 13	N. Saanich water department advised that a temporary odour and taste change might be noticeable in the water as the CRD worked on the disinfection system at the treatment centre in Sooke.	PIID reported this possible adverse result to residents. Odour nor taste changes were reported as problems by our users.

6 Description of the system:

Sources of raw water:

- Groundwater
- Surface water
- Other (specify): CRD from North Saanich connection

Does the drinking water system have disinfection? Yes No

Disinfection methods (check boxes that apply):

- Chlorination
- Ultraviolet light
- Ozonation
- Other (specify): _____

Does the drinking water system have treatment? Yes No

Treatment type (check boxes that apply):

- Particulate cartridge filters
- Membrane filtration
- Carbon filter
- Sand filtration
- Reverse osmosis
- Other (specify): _____

7 Major expenses incurred during the period covered by the report:

To purchase or install required equipment: \$750

To repair equipment: N/A

To replace equipment: \$354,000 new water tank

To complete annual maintenance of system: *(system flushing, replacement of carbon filters, etc)* \$500

To complete specialist report (specify): N/A

8 Further communication with users:

- a. Indicate how you notified system users that your annual report is available, and is free of charge:
 - hand delivered

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- public access / notice via web
- public access / notice via government office
- public access / notice via newspaper
- public access / notice via bill stuffer
- public access / notice via other method (specify):

AGM & AGM Minutes, Regular Board of Trustees Meeting Minutes, Improvement District website

b. Improvements or remedial actions required by the Drinking Water Officer:

- no action required
- Drinking Water Officer inspection report attached to report
- actions required by Drinking Water Officer listed below:

Improvements/Remedial Actions:

Required action	Completion date
No on site system inspection was performed during 2020 by EHO due to COVID-19	TBD

c. Future water system improvements:

- no improvements planned
- improvements listed below:

Future Improvements:

Future plans	Planned completion date
Improvement District initiated replacement of wood stave water storage tank during 2020. Est. completion date: early 2021	< 1 year.

d. Emergency Response Plan can be accessed by:

- posting on web
- posting at nearest government office
- contacting water system owner
- Other (specify): Water Trustee or PIID Secretary