



GARFIELD BAY WATER & SEWER DISTRICT # 82

Mailing Address: PO Box 27 Ponderay, Id 83852

Infiltration Sewer Lateral Improvement Program Program Participant Information

Fill out the below information and mail, fax, or return form to:

**Garfield Bay Water and Sewer District
PO Box 27
Ponderay Idaho 83852
FAX: 208-263-5540**

Last Name _____

First Name _____

Spouse's First Name _____

Business or Residential? _____

Name of Business _____

Phone _____

Property Address _____

City _____ State _____ Zip Code _____

Parcel # RP # _____

Year Sewer Lateral Installed/ Last Replaced _____

Mailing Address _____

City _____ State _____ Zip Code _____

Trigger? (Circle One)

Selling property

Building Permit

Visible Problem Reported

Date: _____

If Trigger is "Selling Property", please provide the following information.

Realtor Name _____

Realtor Company _____

Realtor Phone Number _____

Title Company _____

Contact at Title Company _____

Title Company Phone Number _____

When this form is received, a letter will be sent to you outlining the program requirements and your options.



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Local Plumbers with Video Inspection Equipment for Sewer Laterals

Avalanche Plumbing	263-3585
Lateral Concepts LLC	818-8241
Roto Rooters	263-1013
Sandpoint Plumbing Solutions	255-2900
The Rooter Guys	265-8097
Thomas Plumbing	304-3883
Three Amigos	255-4380



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Date _____

Name: _____

Address: _____

City: _____ State _____ Zip _____

SEWER LATERAL IMPROVEMENT PROGRAM

Dear Property Owner,

The Sewer Lateral Improvement Program (SLIP):

The purpose of this program is to decrease the volume of inflow and infiltration (I & I) which enters the main sewer line by repair or replacing private sewer laterals. The program shall initiate inspections periodically so that the condition of the private laterals can be accurately assessed, and repaired or replaced as necessary. This groundwater and /or surface water entering the sewer mains has become a significant issue, making it harder and more costly to treat the sewage and increasing the cost to sewer patrons by requiring treatment plant capacity increases. Please see the attached program description for more information.

An owner must have their private sewer lateral inspected by video for defects when any of the following events occur:

1. A house or business is being sold and was constructed more than five (5) years ago, must be inspected before the sale closes except if such an inspection was conducted in the five years immediately prior to the sale and the video was provided to the District.
2. An owner takes out a building permit for more than twenty five thousand dollars (\$25,000.00) for a house or business which was constructed more than five (5) years ago.
3. An inspection of a sewer main line identifies excessive inflow and infiltration from the private sewer lateral.

No house or business shall be required to have their lateral inspected more than once every five (5) years.

What should you do now?



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The first step for you, the owner, is to hire a plumber to come and perform a video inspection of your sewer lateral. They will do this by running a small camera down your cleanout or toilet to make a video of the interior of your pipes. After the video, the plumber must contact Garfield Bay Water & Sewer District to inform them of the results. If there appears to be cause for concern, the Sewer District will review the video and rate the condition of your lateral based on several criteria.

What happens then?

- 1.) If your lateral is in good or fair condition according to our score sheet, you are done. You will be contacted to inform you that no further action is required.
- 2.) If your lateral is in poor condition and exceeds the maximum point score of our criteria (1500 points) , you will be contacted to let you know that your lateral has failed, in which case your options are:
 - a.) You must repair or replace your lateral within 90 days of the date of the letter.
 - b.) You can contact Garfield Bay Water & Sewer District and apply for an extension to complete the work. This Approval by the Board of the request will give you up to 10 months (in addition to the 90 days) to complete the work.

What happens if you don't do the work on time?

Service lines which are determined to be defective, deteriorating, leaking or nonfunctional and the condition is such that the repairs must be done quickly to avoid further complications and are therefore not eligible for the time tables set forth in the sewer lateral improvement program shall, upon notice from the District, be replaced by the property owner served by the line. If the owner, after receipt of written notice from the District, fails to replace such lines within ninety (90) days, (you may contact the District and request an extension) the District may replace or contract for replacement of such lines at the owner's expense. If the failures require immediate attention as determined by the District, the District shall consider the matter an emergency and effect repairs immediately and bill the property owner for the work. Upon completion of the work, the owner shall be billed for all cost and expenses of replacement including the costs of notices. If the owner is unable to pay the costs of replacement with sixty (60) days, the District may contract with the Owner to add costs and expense to the owner's utility billings, to be paid over a period not to exceed thirty six (36) months. Should the owner fail to pay or contract for payment of such expenses, the District may. 1) File the expense for reimbursement with the county to be collected with property taxes; or 2.) Utilize available legal remedies to collect the expenses; or 3.) Terminate utility services to the property until such expenses are paid. Should the District collect such expense over time, a reasonable interest rate, to be established by the Board of Directors by resolution, shall be assessed.

Sincerely,

Garfield Bay Water & Sewer District



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The Problem:

Older and deteriorated private sewer laterals have cracks, holes, joints, root penetrations, etc. which allow rain and ground water into the pipe, which then flows into the sewer main and to the wastewater treatment system. This contributes to what is called inflow and infiltration (I & I). See Figure 1 for an illustration of examples of I & I. During rain storms, I & I causes a surge of clean water to flow into the sewer system. This clean water is treated along with the sewage, costing the rate payers money. By decreasing I & I we can help stop rising operation maintenance and expansion costs.

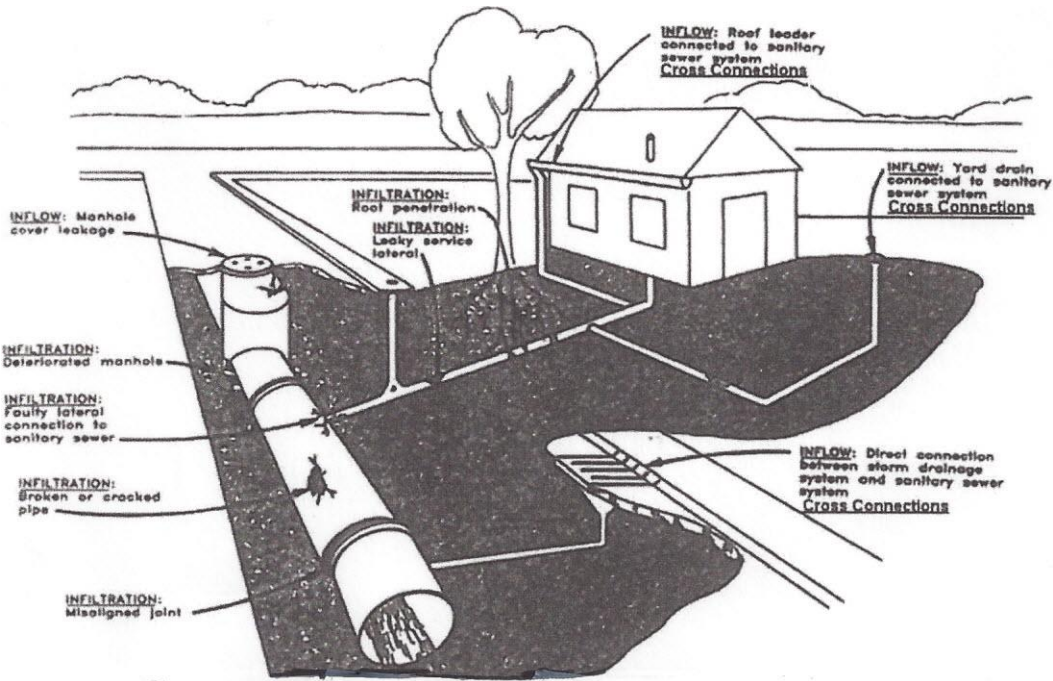


Figure 1: Examples of inflow and infiltration

SANITARY SEWER INFLOW AND INFILTRATION (I & I) PROBLEMS

Many of the sewer mains are also in poor condition and contribute to the (I&I) problem. Garfield Bay Water & Sewer District has been repairing these to decrease I&I again this year. However, private laterals are also a large portion of the problem (estimated about 50%) and without addressing them, significant progress to minimize I&I cannot be made.



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The Solution:

To solve the problem of private sewer laterals, Garfield Bay Water & Sewer District recommends a program to require homeowners to have their laterals inspected and make necessary repairs. Many homeowners are not concerned about their sewer lateral. Out of site; out of mind. As long as their toilet flushes correctly they do not understand any repairs are necessary. However, many sewer laterals are likely in need of repair.

Existing ordinances require that a homeowner maintain their sewer lateral in a good state of repair from their house to the sewer main. However, it is difficult to determine if a lateral is in need of repair without an inspection of the lateral. There is no present requirement which mandates inspections, making it difficult to determine when the lateral needs repair. The District may perform smoke testing periodically to locate specific problems with sewer mains and laterals. Improperly installed laterals will release smoke, which can be identified above ground and noted as a problem.

The Program:

The proposed Sewer Lateral Improvement Program (SLIP) will start the process of private laterals being inspected and repaired, if necessary, by using a trigger and point system. This program is largely based on successful programs from other cities, but modified to best fit Garfield Bay Water & Sewer District.

The Triggers:

- 1.) When a house or business is to be sold which was constructed more than 5 years ago, before the sale closes, the owner must have a plumbing company perform a video inspection of their sewer lateral for defects.
- 2.) When an owner takes out a building permit for more than \$25,000.00 for a house or business which was constructed more than 5 years ago, the owner must have a plumbing company perform a video inspection their sewer lateral for defects.
- 3.) When an inspection of the sewer main line identifies excessive I&I from a private sewer lateral or identifies that private lateral repairs are needed, the owner must have a plumbing company perform a video inspection their sewer lateral.



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The Point System:

If the inspection plumber determines that the lateral is in need of repair, the Garfield Bay Water & Sewer District will review the video of the lateral inspection and rate it based on a point system. In this system, points are undesirable. A new sewer lateral should have a total score of 0 point if installed correctly. Please See Figures 2 and 3 to see the point score sheets. A lateral scoring 0-500 points is considered in good repair, 500-1000 points is fair and above 1000 points is poor. A sewer lateral receiving a score of 1500 points or more is considered unacceptable and will require repair or replacement.

Example 1: A house is 19 years old and is now being sold. The sewer lateral is inspected. It has a PVC pipe lateral with no cracks, holes or root penetrations. No water is visible leaking into the pipe. This lateral would score 100 point. No repairs are necessary.

Example 2: A house is 23 years old and is being remodeled. The sewer lateral is inspected. It is made from cast iron, but has open leaking joints and some roots (medium rating) penetrating into the lateral through the joints. Otherwise it is in good condition. This lateral would score 1000 points. While in poor condition, it is less than 1500 points and would not yet require repair or replacement.

Example 3: A house is 60 years old and is being remodeled. The sewer lateral is inspected. It is made from red clay tile. The pipe has heavy cracking and is crushed in one spot, with heavy root penetration through the crushed area. This lateral would score 3750 points, which is greater than 1500 points and would require re placement.

Example 4: A house is 6 year old and is being sold. It has PVC sewer lateral, but was installed poorly. Two of the pipe joints are offset and light roots are starting to grow into it. Medium infiltration of ground water is seen after a rain event through the offset joints. This lateral would score 1850 points, which is greater than 1500 points and would require repair or replacement. Even though the lateral is nearly still new and made of good materials, the poor installation has caused problems that contribute to I&I.



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Building Sewer Condition Assessment Report

Garfield Bay Water & Sewer District: _____ Date: _____

Property Owner: _____

Address: _____

Inspector: _____

District Employee Evaluation Score: _____

Sewer Lateral Condition

Estimated Age of Sewer Lateral		
(Circle One)	Value	Points
0-10	0	
11 - 20	100	
21-30	250	
>30	500	

Corrosion		
(Circle One)	Value	Points
None	0	
Light	100	
Medium	250	
Heavy	500	

Sewer Lateral Material		
(Circle One)	Value	Points
ABS, HDPE, or PVC	0	
Cast Iron	0	
Concrete	350	
Clay	750	
Other		
Unknown	0	

Pipe Condition		
(Circle Multiple)	Value (per defect)	Points
Cracks	# of cracks x's 100	
Holes	# of holes x's 250	
Broken	# of places x's 500	
Deformed	500	
Collapsed	1500	

Infiltration		
Conditions: Wet / Dry (Circle One)		
(Circle One)	Value	Points
None	0	
Light	250	
Medium	750	
Heavy	1000	

Roots		
(Circle One)	Value	Points
None	0	
Light	100	
Medium	250	
Heavy	500	

Debris		
(Circle One)	Value	Points
None	0	
Light	100	
Medium	250	
Heavy	500	

Joint Condition		
(Circle Multiple)	Value (per joint)	Points
Cracked	# of joints x's 100	
Broken	# of joints x's 250	
Open	# of joints x's 500	
Offset	# of joints x's 500	

Points Sub-total _____

Figure 2: Lateral Point Rating Sheet (1)



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Other Tests

Smoke Testing		
Test Conducted: Yes / No (Circle One)		
(Circle One)	Value	Points
None	0	
Light	200	
Medium	500	
Heavy	1000	

Roof Drains		
(Circle One)	Value	Points
Not Connected	0	
Connected	1500	

Air or Water Pressure Test		
Test Conducted: Yes / No (Circle One)		
(Circle One)	Value	Points
Pass	-1000	
Fail	500	

Foundation Drains		
(Circle One)	Value	Points
Not Connected	0	
Connected	1500	

Points Sub-total	
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Total points	
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Assessment	
Total Points	Condition
0-499	Good
500-999	Fair
1000-1499	Poor
1500 or More	Unacceptable

Recommendations (Check One)	
No Action Required	
Remove Foundation Drains	
Remove Roof Drains	
Repair Lateral	
Replace Lateral	

Laterals scoring 1500 or more points must be repaired or replaced.

Notification and Enforcement:

Owners who trigger the program by the sale of a house will be informed by their realtor, Title Company, lawyer, and or lender of the program when they first inquire about putting their house on the market. Garfield Bay Water & Sewer District will work with the realtors, title companies' lawyers, and lenders to keep them informed of the requirements and will rely on them to keep us informed on the sale of houses within the District.

Owners who trigger the program via the building permits will learn about the requirements within the building permit packet, as well as discuss the program when they submit the application in the County office.

All Owners who trigger the program will also receive a letter which discusses the program requirements, why they are receiving a letter, and what their options are.

A database will be kept which records the current status of each program participant. Garfield Bay Water and Sewer District will work with the owners through the process to ensure that the program is adhered to. Failure to adhere to the program within 90 days will result in a non-compliance letter and include a \$50.00 monthly penalty until repairs are complete. Additionally, the District may have repairs made and bill the owners for all cost incurred.



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Passed and adopted as the Lateral Improvement Program for the Garfield Bay Water and Sewer District at its regular meeting of the Board held on August 11, 2015.

Don Moore, Chairman

ATTEST: _____

_____, Clerk