

Attachment 2

Project Name: Private Lateral Inspection and Replacement Project (PLIRP)

Location: Town of Hillsborough

Name of Contact: Martha DeBry, Public Works Director

Category: Pollution Prevention and Reduction and Public Awareness

General Cost: \$130,000 free sewer video inspection grant program
\$ 55,000 replacement grant program
\$ 29,000 education and outreach program
\$ 11,000 oversight costs
\$225,000 total

Duration: 5 years from approval with provisions for extension for another 5 years if necessary.

Background

In 2005, the Regional Water Board adopted Resolution No. R2-2005-0059 - "In Support of Programs for Inspection and Rehabilitation of Private Sewer Lateral," which officially recognized that sewer laterals in poor condition may cause surcharging of public sewers, overload pump stations and wastewater treatment plants, and potentially pose localized human health and environmental risks. Local programs for inspection and rehabilitation of private laterals represent one means of assuring that laterals are not a source of unreasonable amounts of inflow and infiltration or blockages. The Resolution states that the Regional Water Board supports and encourages local communities and sanitary sewer collection system agencies, especially those experiencing significant infiltration and inflow from private sewer laterals, to have a program that requires inspection and rehabilitation of private sewer laterals.

Wastewater flow is comprised of mostly residential wastewater. The geography of the area lends to high infiltration rates in damaged or deteriorating lines. Flows to the City of Burlingame and City of San Mateo wastewater treatment plants can increase on a scale of 3 to 1 or more. This means that possibly several million gallons per day may enter the system from infiltration or inflow.

SEP Requirements

SEP proposals must conform to the requirements specified by the State Water Resources Control Board in the Water Quality Enforcement Policy (WQEP) and the Regional Water Board's Standard Criteria and Reporting Requirement for SEPs.

Section IX.E of the WQEP states that a SEP(s) must have an appropriate nexus between the alleged violations and the SEP. The proposed SEP should be related both geographically and in violation type. Excessive infiltration and inflow into the collection system may contribute to sanitary sewer overflows (SSOs) and wet weather sewage discharges at the downstream waste water treatment plants in the City of Burlingame or

City of San Mateo. The proposed SEP addresses this problem in the in the collection system owned and operated by the Town of Hillsborough, which is a satellite agency of both the City of Burlingame and the City of San Mateo.

The Private Lateral Inspection and Reimbursement Program (PLIRP) is designed to reduce the amount of inflow and infiltration (I&I) in the Town of Hillsborough sanitary sewer system. This PLIRP will create incentives to encourage and fund the replacement of privately owned sewer laterals. The Town of Hillsborough service area consists of approximately 116 linear miles of collector lines owned and operated by the Town, and an unknown number of miles of privately-owned laterals that connect to the main collector lines. Studies have shown that as much as 50% of I&I can be attributed to private laterals.

The Town of Hillsborough does not own the lateral lines that connect private properties to the sanitary sewer system, so this SEP will not directly benefit Town of Hillsborough.

This PLIRP fits the categories of pollution prevention and public awareness. In addition to funds directed at replacing, or assisting in the replacement, of private laterals, there will be educational material created and disseminated about the connections between private laterals and the public sewer system, and the problems that arise from defects in either.

The PLIRP will consist of a program to provide free video inspection of laterals and a monetary grant to offset the cost of replacing a sewer lateral from a residential structure to the main. The details of each of these program elements of the PLIRP are described in more detail below.

Description:

Up to \$300 per lateral will be provided as a grant to incentivize the video inspection of private laterals. Approximately \$130,000 will be allocated to the program over 4 years starting in 2010. Achieving a goal of 430 laterals (roughly 10% of laterals) will be the goal of the program. The Town, at its own cost will identify a short list of pre-qualified video inspection contractors that will agree to do work at a pre-set price. This will serve two purposes:

- 1) Ensure that the work will be done correctly with a written evaluation identifying defects to accompany the color video inspection, and
- 2) Relieve the homeowners of the burden of finding his/her own contractor.

It will also provide an opportunity for the Town to negotiate pre-set prices for the work, which can be more competitive than market prices because of economies-of-scale. A condition of receiving the grant is that the Town will be provided a copy of the video and evaluation report which will be reviewed by Town staff.

The PLIRP will also offer grants of up to \$500 as an incentive to replace their defective sewer lateral. The program will be administered as a

reimbursement after the homeowner has completed the replacement of the lateral, and the Town has inspected the work. A minimum of 110 grants will be provided to homeowners who replace their sewer laterals. Grants will be offered on a limited basis as funds are available. In order to qualify for the grant the entire lateral from house to street must be replaced with a seamless HDPE sewer pipe or burst with an epoxy liner. Reimbursements will not be provided to homeowners who make spot repairs or use vitrified clay, iron, or galvanized steel pipe.

Exceptions: the grants for video inspection and replace of private sewer lateral will be limited only to homeowners who are not otherwise already required by the Town's ordinances to inspect and rehabilitate their laterals.

To maximize the effectiveness of the grant program, the PLIRP will include

- Identification of target areas with high I&I, where recent capital improvements have been completed
- Identify target locations where SSOs have occurred
- Conduct community education and outreach, and

The PLIRP will target areas where recent capital improvements have made publicly-owned mains water tight and less prone to I/I. By rehabilitating laterals in these areas, it is believed I/I can be effectively eliminated. The PLIRP will also target locations near where SSOs have occurred to prevent a reoccurrence of the problem.

The community outreach and education will inform the homeowners about I&I problems, how they can help resolve those issues, the grant programs available, and a list of pre-qualified video inspection contractors with pre-set prices.

The Town has adopted an ordinance requiring inspection, maintenance and replacement of lateral sewer lines at the time sale, time of permit when plumbing improvements are proposed, time of SSOs or when capital improvement projects identify lateral issues. Inspections that reveal defects will prompt the Town to send notices of correction to the resident who will be required to repair or replace his/her lateral.

At its own cost, the Town will administer the grant programs and compile an annual report regarding the length of lateral pipe replaced, conditions found during replacement, and other information as appropriate.

Education: As noted previously, the Town will establish a public education program regarding private laterals, problems that can be encountered, routine maintenance and the homeowner's responsibility. At the same time, this program will make the public aware of information through Town's website posting and individual mailers that Town will be providing grants to inspect/replace lateral lines. Educational informational about the grant

programs shall indicate that these programs are being performed in fulfillment of a settlement of an enforcement action with the Regional Water Board.

Budget/Cost:

	Outreach	Video Goal	Video cost	Lateral Rehabilitation Goal	Lateral Rehabilitation Cost	Third Party Oversight by SF Estuary Project
2009	\$2,000					3500
2010	\$8,000	83	\$25,000	26	\$13,000	2000
2011	\$7,500	116	\$35,000	28	\$14,000	1000
2012	\$7,500	116	\$35,000	28	\$14,000	1000
2013	\$4,000	116	\$35,000	28	\$14,000	3500
Total	\$29,000	430	\$130,000	110	\$55,000	11,000
					Grand Total	225,000

Project Timetable and Milestones:

<u>Task</u>	<u>Timeline</u>
Develop outreach material and strategy for implementation	Within 3 months of project initiation
Complete list of pre-qualified contractors for video inspection of private laterals at pre-fixed prices	Within 5 months of project initiation
Begin video inspections of laterals and grants for replacement of laterals	Within 6 months of project initiation
Complete PLIRP or pay Cleanup and Abatement the balance of unspent SEP funds	Within 5 years of project initiation**

*** This 5-year term may be extended for up to 5 years for a total project term of 10 years if approved by the Regional Water Board's Executive Officer based on a request by the Town of Hillsborough. Additional third party oversight costs will be determined by the Executive Officer for the remainder of the project at that time and shall be not be from original project budget, but shall be in addition to the budget and paid for by the Town of Hillsborough.*

Reporting: Progress reporting will be made to the Regional Water Board and the oversight/audit organization identified below on a quarterly basis from the start of the PLIRP for 2 years (a total of eight reports). After two years, progress reports will be made on an annual basis until project completion (for remaining 3 years). Progress reports are due on the first of each calendar quarter; semi-annual reports are due on January 2 of each year.

A final report shall be made to the Regional Water Board and the oversight/audit organization identified below by July 1st 5 years after project initiation. Records of project expenses and improvements shall be maintained by the Town of Hillsborough.

Each progress report shall describe the tasks completed along with their results (i.e., target areas identified, number of laterals videoed, etc.), monies expended for each task since the last report, and progress of compliance with the project timetable and milestones. The final report shall describe the tasks completed, an accounting of funds expended, and describe whether the measures of success detailed below were met, and if not met, identify possible reasons for why they were not met and suggestions for changes to project elements and strategies to guide future efforts by Town or others.

If Town of Hillsborough requests and is granted an extension of the project, a final report for the first 5 years is still due on the date specified above, and the conditions of the extension will specify reporting requirements for the term of the extension.

Measures of Success:

The measures of success of this project include the following:

- Video inspections of 430 laterals
- The replacement or rehabilitation of 110 defective private sewer laterals in the Town's service area, which will result in less I/I and less capacity related SSOs
- Mailers of educational material on PLIRP to 100% of homeowners on annual basis.
- Posting of educational material on www.hillsborough.net website

Project Oversight/Audit:

To ensure completion of commitments and appropriate expenditure of funds, oversight and audit of the project will be conducted by the San Francisco Estuary Project. All reports must be sent to the following:

Carol Thornton
Contractor to San Francisco Estuary Project
1515 Clay Street, Suite 1400
Oakland, CA 94612
(510) 622-2419
cThornton@waterboards.ca.gov