



## 2003 ANNUAL CSO REPORT

PREPARED FOR

THE WASHINGTON STATE DEPARTMENT OF ECOLOGY

May 2004

TO COMPLY WITH  
CONDITION S11 OF NPDES PERMIT NO. WA-0023973  
AND  
WAC 173-245-090(1)

Prepared By:

A handwritten signature in cursive script, appearing to read "Stephen Sperr", written over a horizontal line.

Stephen Sperr, P.E.  
Engineering Manager

Approved By:

A handwritten signature in cursive script, appearing to read "Gary W. Kenworthy", written over a horizontal line.

For Gary W. Kenworthy, P.E.  
Deputy Director Engineering Services

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**A. SUMMARY**

This Report addresses the period from January 1, 2003 through December 31, 2003 with regards to the reporting requirements in the Permit. The City has five Combined Sewer Overflow (CSO) sites which are continuously monitored by Geotivity RMI1100 flow recorders. The City has a service contract with Geotivity where they download the raw data, verify the data, and convert it to a format that can produce reports of varying length, as well as graphs.

The five CSO discharge outfalls are as follows:

- 001 - Pump Station #1, discharge into Strait of Juan De Fuca
- 006 - Oak & Railroad, discharge into Port Angeles Harbor
- 007 - Laurel & Railroad, discharge into Port Angeles Harbor
- 008 - 2nd & Lincoln, discharge into culvert for Peabody Creek, outlet into Port Angeles Harbor
- 010 - Francis Street (East Manhole), discharge into Port Angeles Harbor

**B. CSO DISCHARGES - FREQUENCY AND VOLUME**

The table below details for each site the number of overflows in 2003 and the total volumes, in gallons, of CSOs.

**TABLE 1  
OVERFLOW FREQUENCY AND TOTAL VOLUME**

*Due to website glitches and unfinished report formatting by the City's consultant (Geotivity, Inc.) who operates and maintains CSO flow monitors, complete and accurate information for this table was not available as of the issuance date of this report. An addendum to this report will be submitted to Ecology with this information in a timely manner.*

Site	Description	No. Events	Total Volume (gal.)
001	Pump Station #1		
006	Railroad & Oak Streets		
007	Railroad & Laurel Streets		
008	Lincoln & 1/2 Alley		
010	Francis Street		

### C. CSO REDUCTION ACCOMPLISHMENTS IN 2003

The following projects were started or underway in 2003 as part of the City's CSO Reduction Plan:

1. Approximately \$50,000 was spent on disconnecting existing storm inlets/catch basins from sanitary sewer system.
2. Approximately \$95,000 was spent disconnecting roof drains from the sewer system at 18 homes as part of a pilot project to evaluate the potential effectiveness of a roof drain disconnection ordinance.
3. Continued recording of flows in 9 sewer manholes, including the 5 CSO sites, to establish baseline flows and calibrate sewer system modeling software.

### D. CSO PROJECTS PLANNED FOR 2004

1. A new Roof Drain Ordinance, as part of the City's ongoing I/I control program, will be drafted and may be implemented.
2. Continue the disconnection program (\$50,000 per year on average) for storm inlets/catch basins and incorporate disconnections into adjacent public works projects.
3. Removing the CSO site at Pump Station #1 by removing the pump station and extending gravity sewer towards Pump Station #3 will be constructed in 2004.
4. The City's consultant Brown and Caldwell has been tasked with the first phase of revising the CSO Reduction Plan as required by the NPDES permit.
5. Installation of baffles at each CSO site.
6. Installation of Tideflex tidegates at CSO 006 and CSO 007 to eliminate tidal surges into sewer and false recorded CSO events.

### E. NINE MINIMUM CONTROLS

Implementation of the nine minimum controls as described in S11.B.1 to 9 of the permit is being documented by the deliverables required under Administrative Order DE 04WQSR-6042 issued by the Department of Ecology April 23, 2004..



**ADDENDUM TO**  
**2003 ANNUAL CSO REPORT**  
**PREPARED FOR**  
**THE WASHINGTON STATE DEPARTMENT OF ECOLOGY**

**June 2004**

TO COMPLY WITH  
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**TABLE 1  
OVERFLOW FREQUENCY AND TOTAL VOLUME**

Site	Description	No. Events	Total Volume (gal.)
001	Pump Station #1	2	3,831
006	Railroad & Oak Streets	6	1,166,421
007	Railroad & Laurel Streets	10	5,958,953
008	Lincoln & ½ Alley	2	1,201,531
010	Francis Street	12	21,400,462
Total Volume			29,731,198