

DRAINAGE PROGRAM EVALUATION

Program:

Pipes

Activity:

Cleaning—Scheduled

Task:

Pipe Cleaning

Description and Purpose:

All time, material, and equipment spent checking, maintaining, and cleaning normal scheduled storm lines. Sediment and debris removal to prevent blockages.

Industry Standard:

USA: Four-year cycle. Specific areas may require more frequent cleaning (downtown urban areas, areas abutting construction activity). ACWA: Inspect every five years.

Why: USA: Performance standard: 1,000 L.F./day, including cleaning lateral inlet/outlet and catch basins. Eugene: Once/day—No daily production noted.

Salem Standard:

Four-year cycle. $1,878,536 \div 4 = 470,000$

Why: Inspect and clean 25% of system each year. Allows you to identify problems and correct them before they become major failures.

Adequate Level:

Seven-year cycle. $1,878,536 \div 7 = 268,000$

Why: Current year, experienced 38,000 feet of unscheduled cleaning of storm and _____ unscheduled sanitary cleaning.

Current (97/98) Level:

Planned: $345,300' \text{ lf/day} = 18\% = 5\frac{1}{2} \text{ years}$.
Actual: $175,714' \text{ lf/day} = 9\% = 11 \text{ years}$.

Why:

Maintenance and Frequency

Summary/Deficiencies:

Funding

Salem Standard
\$202,100
Adequate Level
\$115,240
Current Level
\$75,833

DRAINAGE PROGRAM EVALUATION

Program:

Pipes

Activity:

TV Inspection—Scheduled

Task:

Pipes

Description and Purpose:

Routine inspections to determine the condition of lines. Written and video tape reports are made during operation. Special inspections are also done prior to acceptance of contractor's construction or reconstruction jobs during the one-year maintenance period.

Industry Standard:

USA: 1) Average once/8 years; 2) Critical areas or problem lines more frequently as needed; 3) New lines before end of one-year warranty period. Performance standard: 2,000 LF/day. Includes manholes or surface inspection of right-of-way in easement conditions.

Why: Eugene: As needed.

Salem Standard:

8-year cycle. \$148,025, exist; \$26,165, new.

Why:

Adequate Level:

14-year cycle or 25.4 miles annually.

Why: To keep up with cleaning schedule.

Current (97/98) Level:

Planned: 103,363/1,878,536' = 4% or 25-year cycle. Actual: 61,408/2,405,534' = 3% or 34-year cycle. New Storm/10-month—Planned: 61,000'; Actual: 63,648'. \$.63/ft.

Why:

Summary/Deficiencies:

Maintenance and Frequency

Funding

Salem Standard
\$148,025
Adequate Level
\$84,490
Current Level
\$38,690