SECTION II

PURPOSE AND APPROACH

PROJECT PURPOSE

The purpose of this General Sewer and Facility Plan (GSP/FP) is to guide the City of Woodland in providing sewer service to the City and the surrounding community over the next 25 years. The General Sewer Plan portion of this report has been prepared to conform with current State of Washington Department of Ecology (DOE) regulations and guidelines in the Washington Administrative Code (WAC) 173-240 and the Revised Code of Washington (RCW) 90.48. The Facility Plan portion of this report serves to present the modifications recommended to be implemented for the wastewater treatment system. As such, the Facility Plan has been written to meet the requirements of WAC 173-240-050 and WAC 173-240-060 for an Engineering Report and 40 CFR for a Facility Plan.

APPROACH

A primary objective of sewer system planning is to insure adequate treatment and conveyance capacity is provided to meet the City's needs, to insure such facilities minimize adverse impacts on the environment, and to protect the health and safety of the community. An additional priority is to accomplish these goals in an economical and efficient manner. Minimum requirements are set forth by the United States Environmental Protection Agency (EPA) and DOE, which the City must abide by in the management of its wastewater collection and treatment facilities. The primary instrument of these requirements is the National Pollution Discharge Elimination System (NPDES) Permit, and Water Quality Standards (WAC 173-201A) for surface waters of the State of Washington. A copy of the City's existing NPDES Permit is included in Appendix A.

The approach taken in preparation of this plan is to:

- Evaluate areas of the City's sewer system with respect to compliance with the existing NPDES Permit.
- Describe existing and anticipated future effluent limitations and other water quality management goals that the City must meet, or plan for.
- Define environmental and physical conditions in the present and future planning area.
- Prepare an inventory and drawings of the City's existing wastewater collection and treatment system.
- Develop population, flow, and wasteload projections for which wastewater facilities must be provided.
- Evaluate alternative wastewater treatment systems, and estimate costs for recommended improvements to the existing and future sewer systems to plan for future growth.
- Evaluate the need to remove excessive infiltration and inflow (I/I) from the system.
- Evaluate financial options for funding any such recommended improvements, and estimate the impact on sewer service rates.
- Develop a schedule for implementing the recommended improvements.
- Assist the City in preparation of a SEPA and a SERP Checklist.

This General Sewer Plan/Facility Plan (GSP/FP) utilizes information obtained from the City including WWTP records and Discharge Monitoring Reports (DMR's) from July 1996 through June 1998, "as-built" drawings and maps, and previous planning and design-related documents. Information provided by Woodland personnel concerning various system characteristics has been considered and included in this plan. The Woodland wastewater collection system map has been prepared from digital aerial maps provided through Cowlitz County's Graphical Information System (GIS). Developments that have been constructed since 1996 (when the aerial maps were taken) and September 1998 (when maps for this report were prepared) have been added to the digital drawings.

It is intended that upon completion of this document, this GSP/FP will be reviewed and approved by the City and DOE.