



CITY OF McCleary

General Sewer Plan

G&O No. 14233
November 2024



Gray & Osborne, Inc.

CITY OF MCCLEARY

GRAYS HARBOR COUNTY

WASHINGTON



GENERAL SEWER PLAN



G&O #14233
NOVEMBER 2024



Gray & Osborne, Inc.
CONSULTING ENGINEERS

TABLE OF CONTENTS

CHAPTER 1 – INTRODUCTION

SCOPE OF WORK	1-1
RELATED PLANNING DOCUMENTS	1-1
Growth Management Act (GMA) Related Plans, Policies and Development	
Regulations	1-2
City of McCleary Codes and Standards.....	1-2
Development Standards	1-2
Municipal Code.....	1-2
Resolutions.....	1-2
Wastewater System Planning.....	1-3
Water System Comprehensive Plans	1-3
Stormwater Comprehensive Plans	1-3

CHAPTER 2 – REGULATORY REQUIREMENTS

FEDERAL AND STATE STATUTES, REGULATIONS, AND PERMITS	2-1
Federal Clean Water Act.....	2-1
NPDES and State Waste Discharge Permits.....	2-1
Proposed Capacity, Management, Operation and Maintenance Regulations	2-3
Federal Endangered Species Act	2-4
National Environmental Policy Act	2-5
Federal Clean Air Act	2-5
STATE STATUTES, REGULATIONS, AND PERMITS	2-5
State Water Pollution Control Act	2-5
Submission of Plans and Reports for Construction of Wastewater	
Facilities, WAC 173-240	2-5
Criteria for Sewage Works Design, Washington State Department of	
Ecology	2-6
Certification of Operators of Wastewater Treatment Plants,	
WAC 173-230	2-6
Surface Water Quality Standards (WAC 173-201A).....	2-6
Reclaimed Water Standards	2-8
State Environmental Policy Act.....	2-10
Accreditation of Environmental Laboratories (WAC 173-050).....	2-10
Minimal Standards for Solid Waste Handling (WAC 173-304).....	2-10
Wetlands	2-10
Dredging and Filling Activities in Natural Wetlands (Section 404 of the	
Federal Water Pollution Control Act).....	2-10
Wetlands Executive Order 11990	2-11
Shoreline Management Act.....	2-11
Floodplain Development Permit.....	2-11
Hydraulic Project Approval	2-11

CITY SEWER ORDINANCES AND PLANNING POLICIES.....	2-12
Introduction.....	2-12
Connections to the Public Sewer	2-12
Storm Drainage Connections to Sewer Prohibited	2-12
Sewer Extensions Outside City Boundaries	2-13

CHAPTER 3 – LAND USE, POPULATION PROJECTIONS, AND SERVICE AREA CHARACTERISTICS

SEWER SERVICE AREAS	3-1
City of McCleary	3-1
Adjacent Sewer Service Areas.....	3-1
NATURAL ENVIRONMENT	3-1
Topography.....	3-1
Geology.....	3-2
Soils.....	3-2
Climate.....	3-3
Sensitive Areas.....	3-4
Aquifer Recharge Areas.....	3-4
Floodplains.....	3-4
Wetlands	3-5
Geologically Hazardous Areas	3-5
Erosion Hazard Areas	3-5
Landslide Hazard Areas	3-5
MCCLEARY WATER SYSTEM.....	3-6
Source of Supply.....	3-6
Water Rights	3-7
Treatment	3-8
Storage	3-8
Booster Pump Stations.....	3-9
Transmission and Distribution System	3-9
Telemetry and Control	3-9
Interties	3-10
PLANNING PERIOD	3-10
Existing Land Use and Zoning	3-10
Single-Family Residential (R-1).....	3-10
Multi-Family Residential (R-2)	3-10
Manufactured Home Park (R-3)	3-10
Downtown Commercial (C-1)	3-11
General Commercial (C-2)	3-11
Highway Commercial (C-3)	3-11
Industrial (I)	3-11
Forest/Open Space (F/OS).....	3-11
INDUSTRIES IN THE SEWER SERVICE AREA	3-11
PROJECTED FUTURE POPULATION AND SEWER DEMANDS	3-12

Historic Population	3-12
Projected Population	3-13
SEWER CONNECTIONS AND ERUS	3-14

CHAPTER 4 – EXISTING WASTEWATER COLLECTION SYSTEM

INTRODUCTION	4-1
WASTEWATER COLLECTION SYSTEM.....	4-1
Pump Stations	4-1
Collection System	4-3
Collection Areas.....	4-3
Basin 1	4-4
Basin 2	4-4
Basin 3	4-4
Basin 4	4-4
Basin 5	4-4
Basin 6	4-5
Basin 7	4-5
Basin 8	4-5
Basin 9	4-5
Basin 10	4-5

CHAPTER 5 – WASTEWATER TREATMENT PLANT LOADINGS AND PERFORMANCE

INTRODUCTION	5-1
DEFINITIONS OF TERMS.....	5-1
Average Annual Flow	5-1
Average Dry Weather Flow	5-1
Base Flow.....	5-1
Biochemical Oxygen Demand (BOD ₅).....	5-2
Chlorine.....	5-2
Contaminants of Concern	5-2
Domestic Wastewater	5-3
Equivalent Residential Unit (ERU)	5-3
Infiltration	5-3
Inflow.....	5-3
Maximum Month Flow (Treatment Design Flow)	5-4
Non-Residential Wastewater	5-4
Peak Hour Flow	5-4
Suspended Solids	5-4
Wastewater.....	5-4
WASTEWATER TREATMENT PLANT DESIGN DATA	5-5
NPDES PERMIT LIMITS	5-5
EXISTING WASTEWATER FLOWS AND LOADINGS.....	5-5
Existing Wastewater Flows at WWTP	5-5
Infiltration and Inflow Analysis.....	5-13

Infiltration and Inflow Using EPA Criteria	5-14
Infiltration	5-15
Inflow	5-15
Existing BOD ₅ Loading	5-15
Existing Total Suspended Solids Loading	5-16
ANALYSIS OF WASTEWATER TREATMENT PLANT PERFORMANCE	5-16
WWTP CONCLUSIONS AND RECOMMENDATIONS.....	5-19
Non-Potable Water System.....	5-19
Electrical Panel Modifications.....	5-19
Sludge Handling Modifications	5-19
Reclaimed Water Assessment.....	5-20

CHAPTER 6 – COLLECTION SYSTEM EVALUATION

INTRODUCTION	6-1
TRUNK SEWER DELINEATION	6-1
FLOW LOADING ASSUMPTIONS	6-1
FLOW LOADING MODEL.....	6-3
TRUNK SEWER CAPACITY ANALYSIS.....	6-5
FUTURE CONDITIONS	6-6
COLLECTION SYSTEM CONCLUSIONS AND RECOMMENDATIONS.....	6-6
CIP C-1: Upsize Pipe along Simpson and 9 th from 7 th to WWTP.....	6-6
Potential Future Force Main	6-7
Infiltration and Inflow Monitoring.....	6-7

CHAPTER 7 – CAPITAL IMPROVEMENT PROGRAM AND FINANCING PLAN

FINANCIAL STATUS OF EXISTING WASTEWATER UTILITY	7-1
Current Wastewater Rates.....	7-1
Current Connection Fees.....	7-1
CAPITAL IMPROVEMENT PROGRAM	7-2
Collection System Improvements	7-2
C-1: Upsize Pipe along Simpson and 9 th , from 7 th to WWTP.....	7-2
C-2: Infiltration and Inflow Analysis.....	7-2
C-3: Pump Station and SR 8 Force Main Crossing	7-2
Lift Station Maintenance and Replacement.....	7-3
WWTP System Improvements	7-3
T-1: Electrical Panel Modifications	7-3
T-2: Non Potable Water System	7-3
Sludge Handling Modifications	7-3
AVAILABLE CAPITAL PROJECT FUNDING SOURCES	7-4
USDA Rural Development	7-5
Public Works Trust Fund.....	7-5
Community Economic Revitalization Board (CERB).....	7-6
State Revolving Fund/Centennial Clean Water Act Fund	7-6
Revenue Bonds	7-7

Utility Local Improvement Districts.....	7-7
Developing Financing.....	7-8
System Assessment Charges.....	7-8

LIST OF TABLES

<u>No.</u>	<u>Table</u>	<u>Page</u>
2-1	NPDES and State Waste Discharge Permits Issued	2-2
3-1	Soil Characteristics	3-2
3-2	Average Rainfall and Temperature Data, McCleary, Washington	3-3
3-3	McCleary Water System Wells.....	3-6
3-4	Water Rights	3-7
3-5	Storage Facilities.....	3-9
3-6	Pipe Material, Size, and Length.....	3-9
3-7	Historical Population 1990 to 2016	3-13
3-8	Projected Population 2016 to 2036.....	3-14
3-9	Sewer Service Connections and ERUs by Customer Class as of July 2016.....	3-14
4-1	Lift Stations and Force Mains.....	4-2
4-2	Sewer Pipe Summary, McCleary Collection System	4-3
5-1	Design Data for McCleary Wastewater Treatment Plant	5-5
5-2	Annual Summary of WWTP Influent Flows (Nov 2012 to Oct 2016).....	5-6
5-3	Monthly Summary of Discharge Monitoring Reports (DMRs) WWTP Influent Monthly Averages.....	5-6
5-4	McCleary WWTP Flows as of October 2016.....	5-13
5-5	McCleary Infiltration and Inflow Results	5-14
5-6	Per Capita Infiltration and Inflow Based on EPA Criteria	5-15
5-7	Summary of City of McCleary WWTP Performance.....	5-17
6-1	Sewer Basin Flow Loading Analysis	6-2
6-2	Flow Loading Model.....	6-4
7-1	Monthly Wastewater Service Charges.....	7-1
7-2	Sewer Service Connection Fee	7-2
7-3	Wastewater Utility Capital Improvement Program	7-4

LIST OF FIGURES

<u>No.</u>	<u>Figure</u>	<u>On or Follows Page</u>
3-1	Vicinity Map	3-2
3-2	Current Sewer Service Area.....	3-2
3-3	Topography Map.....	3-2
3-4	Soils Map	3-2
3-5	Wellhead Protection and Floodplain Map	3-4
3-6	Wetlands Map	3-6
3-7	Critical Areas Map.....	3-6
3-8	Water System Basemap Existing and Future Retail Water Service Area Boundary	3-6
3-9	Existing Land Use Designations	3-10
3-10	Zoning Map (2017).....	3-10
4-1	Collection System Overview Map	4-2
4-2	Sewer Basemap (Layout 1).....	4-4
4-3	Sewer Basemap (Layout 2).....	4-4
4-4	Sewer Basemap (Layout 3).....	4-4
4-5	Sewer Basemap (Layout 4).....	4-4
4-6	Sewer Basemap (Layout 5).....	4-4
4-7	Sewer Basemap (Layout 6).....	4-4
4-8	Sewer Basemap (Layout 7).....	4-4
4-9	Sewer Basemap (Layout 8).....	4-4
4-10	Sewer Basemap (Layout 9).....	4-4
5-1	Monthly Average Influent Flow and NPDES Limit (November 2012 – October 2016	5-9
5-2	Monthly Peak Day Influent Flow and NPDES Limit (November 2012 – October 2016	5-10
5-3	Monthly Average BOD ₅ Influent Loading and NPDES Limit (November 2012 – October 2016	5-11
5-4	Monthly Average TSS Influent Loading and NPDES Limit (November 2012 – October 2016	5-12
6-1	Modeled Sewer Trunk Lines.....	6-2
6-2	Trunk Sewer Capacity Analysis Results.....	6-2
6-3	Trunk Sewer Capacity Schematic	6-2
6-4	Future Sewer Service Area	6-2
6-5	CIP 1	6-2
6-6	Potential Future Force Main	6-2
6-7	WWTP Daily Influent Flow vs. Cumulative 3-Day Rainfall	6-2

APPENDICES

Appendix A – McCleary Municipal Code Section 13.12 Sewer System

Appendix B – City Resolutions Relating to Sewer Service

Appendix C – Simpson Door Company NPDES Permit and Fact Sheet

Appendix D – McCleary WWTP NPDES Permit and Fact Sheet

Appendix E – SEPA Checklist

Appendix F – Official Shorelines Map

Appendix G – WWTP Discharge Monitoring Reports (DMRs)

CHAPTER 1

INTRODUCTION

This *General Sewer Plan (2022 Plan)* for the City of McCleary (City) addresses the City’s planning needs for wastewater collection, transmission, treatment, and disposal for the 20-year planning period. This *2022 Plan* was prepared in accordance with the provisions of the Revised Code of Washington (RCW) Section 90.48, *Water Pollution Control*, Washington Administrative Code (WAC) Section 173-240-050, *General Sewer Plan*, and WAC 173-240-060, *Engineering Report*. Development of the *2022 Plan* has been coordinated with the City of McCleary *Water System Plan*, which was completed in February 2022.

The *2022 Plan* provides proposed conceptual designs, cost estimates, schedule, and financing plan for recommended major facility improvements. The projects described in the *2022 Plan* are consistent with Washington State regulations relating to the prevention and control of discharge of pollutants into waters of the state, anti-degradation of existing and future beneficial uses of groundwater, and anti-degradation of surface water.

SCOPE OF WORK

The *2022 Plan* addresses the wastewater collection system and the wastewater treatment system. This evaluation includes collection system modeling, analysis, and a capital improvement plan with cost analysis and schedule. The scope of work for the *2022 Plan* includes the following items:

- Chapter 1 – Introduction
- Chapter 2 – Regulatory Requirements
- Chapter 3 – Land Use, Population Projections, and Service Area Characteristics
- Chapter 4 – Existing Wastewater Collection System
- Chapter 5 – Wastewater Treatment Plant Loadings and Performance
- Chapter 6 – Collection System Evaluation
- Chapter 7 – Capital Improvement and Financing Plan

RELATED PLANNING DOCUMENTS

The following documents were consulted in the preparation of this General Sewer Plan:

GROWTH MANAGEMENT ACT (GMA) RELATED PLANS, POLICIES AND DEVELOPMENT REGULATIONS

Grays Harbor County does not plan under the Growth Management Act (GMA); therefore, the City of McCleary also does not plan under GMA and does not have an Urban Growth Area (UGA).

CITY OF MCCLEARY CODES AND STANDARDS

Development Standards

City of McCleary Development Standards, Revised November 18, 2009

This document outlines standard design and construction methods and specifications for roadways, stormwater management facilities, water systems, and sanitary sewers.

Municipal Code

Section 13.12 Sewer System of the McCleary Municipal Code.

Section 13.12 Sewer System of the City of McCleary Municipal Code regulates sewer services. This section of the municipal code has been included in Appendix A. The sewer ordinances address such issues as requirements for connections to sewer system, requirements for sewer installation by developers, development requirements for private sewer systems, conditions for sewer service extensions, and sewage pretreatment regulations.

Resolutions

City of McCleary Resolution No. 624 relating to rates to be charged for sewer service.

City of McCleary Resolution No. 659 providing for a certain period to allow certain utility customers to recommence utility services without paying the fees usually required.

City of McCleary Resolution No. 686 relating to connection fees to the City's utility systems.

A copy of the above resolutions is provided in Appendix B.

WASTEWATER SYSTEM PLANNING

Wastewater Facility Plan, September 2001, Parametrix, Inc.

The *Wastewater Facility Plan (2001 Plan)* served as both a sewer system plan and a facilities plan. It provided an inventory of the existing system, estimated population and waste loads for the service area, identified necessary improvements, evaluated the performance of the treatment plant, gave recommendations, and cost evaluations for new facilities. A major recommendation of the *2001 Plan* was an upgrade of the existing wastewater treatment plant and conversion to a sequencing batch reactor plant.

Sanitary Sewer Inflow and Infiltration (I/I) Study, July 1998, Parametrix, Inc.

This document investigated infiltration and inflow within the City of McCleary sewer collection system. It was prepared in order to satisfy the requirements of the City's Wastewater Treatment Plant NPES permit.

WATER SYSTEM COMPREHENSIVE PLANS

City of McCleary Water System Plan, February 2022, Gray & Osborne, Inc.

The *City of McCleary Water System Plan* discusses the existing water system facilities, water usage and design criteria, conservation programs, system expansion, and water system improvements. This plan is an updated version of the previous Water System Plan prepared by Parametrix, Inc. in 2008.

STORMWATER COMPREHENSIVE PLANS

City of McCleary Comprehensive Stormwater Management Plan, October 2011, Gray & Osborne, Inc.

This document is a planning document that provides guidance to minimize adverse effects of stormwater runoff on ground and surface water. It identifies water quality and quantity problems associated with stormwater runoff that may affect the environment and community, and provides recommendations for improvements and programs including a cost analysis and an implementation of schedule.

CHAPTER 2

REGULATORY REQUIREMENTS

Federal and state regulatory requirements were used in developing the design criteria for improvements to the City of McCleary’s wastewater collection, treatment, and disposal facilities. The purpose of this chapter is to identify and summarize the regulations that affect the planning, design, and approval of improvements discussed in this plan.

This chapter does not describe each regulation in detail; rather, it addresses important facets of the regulations that affect the planning and design process. Subsequent sections of this report address technical requirements of the regulations at a level of detail appropriate for the evaluation provided by that section.

FEDERAL AND STATE STATUTES, REGULATIONS, AND PERMITS

This section discusses some of the various federal and state laws that may affect wastewater system construction and operations, as well as other relevant permits, programs, and regulations.

FEDERAL CLEAN WATER ACT

The Federal Water Pollution Control Act is the principal law regulating the water quality of the nation’s waterways. Originally enacted in 1948, it was significantly revised in 1972 and 1977, when it was given the common title of the “Clean Water Act” (CWA). The CWA has been amended several times since 1977. The 1987 amendments replaced the Construction Grants program with the Water Pollution Control State Revolving Fund (SRF) that provides low-cost financing for a range of water quality infrastructure projects.

NPDES and State Waste Discharge Permits

The National Pollutant Discharge Elimination System (NPDES) program was established by Section 402 of the CWA and its subsequent amendments. The Department of Ecology administers NPDES permits for the U.S. Environmental Protection Agency (EPA). Most NPDES permits have a 5-year term and place limits on the quantity and quality of pollutants that may be discharged to water bodies. There are six current NPDES and State Waste Discharge Permits (SWDP) issued to facilities in the McCleary area, as shown in Table 2-1. The NPDES program covers wastewater, industrial discharge, and stormwater permits. If considered significant, industrial discharges to municipal wastewater collection/treatment systems are typically addressed in SWDPs.

TABLE 2-1

NPDES and State Waste Discharge Permits Issued

Facility	Permit Number	Permit Type
Simpson Door Co	WAR000790	Industrial SW GP
Quigg Brothers Skookum Rock Quarry	WAG501076	Sand and Gravel GP
House Brothers 594 Shop	WAG501440	Sand and Gravel GP
WA DOT-SR 8 EF & MF Wildcat Creek	WAR304600	Construction SW GP
McCleary STP	WA0024040	Municipal NPDES IP
Simpson Door Company	ST0006178	Industrial (IU) to POTW/Private SWDP IP

SW = Stormwater, GP = General Permit, IP = Industrial Permit

Of the above facilities, the most relevant to the performance of the City’s sewer system and WWTP is the Simpson Door Company permit ST0006178. The City receives copies of the Discharge Monitoring Reports associated with this permit. This permit is discussed further in Chapter 3. A copy of this permit is provided in Appendix C.

City of McCleary WWTP NPDES Permit

The City of McCleary’s current wastewater treatment plant NPDES permit, number WA0024040 and fact sheet are attached as Appendix D. The City’s current permit effluent limits are discussed in Chapter 5. Condition S1 of the City’s permit requires the treatment plant effluent meet limits for 5-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), fecal coliform bacteria, pH, dissolved oxygen, temperature, and total ammonia. Effluent limits vary depending on the time of year, with one set of limits being applicable during the summer (June through September) and a different set of limits being applicable the rest of the year (October through May).

Condition S2 lists monitoring requirements including BOD₅ and TSS for the influent. Monitoring requirements for the effluent include flow, BOD₅, TSS, pH, dissolved oxygen, temperature, fecal coliform, and ammonia. Condition S3 lists reporting and recording requirements.

Condition S4.A specifies the WWTP design capacity for maximum month BOD₅ loading is 742 pounds per day (lb/d) and 1,252 lb/d for TSS. The maximum month and peak daily flow capacities for the WWTP are 0.57 and 1.1 million gallons per day (mgd), respectively. Condition S4.B requires the City to prepare a plan to maintain adequate capacity when flows and loadings to the WWTP exceed 85 percent of design capacity for three consecutive months or when the projected increase would reach design capacity within 5 years, whichever occurs first. There are other conditions of the permit that can be found in Appendix B. Chapter 5 of this plan includes an evaluation of the WWTP operating conditions.

PROPOSED CAPACITY, MANAGEMENT, OPERATION AND MAINTENANCE REGULATIONS

In 2005, EPA adopted a new round of recommendations titled Capacity, Management, Operation and Maintenance (CMOM). Though the regulations are yet to be formally made into law by EPA, some municipalities are anticipating the adoption and have moved forward with implementation. In addition, EPA has used CMOM as de facto standards for collection system audits, including for some facilities in Washington State. CMOM focuses on implementing standards to prevent the failure of collection systems and suggests a program for long-term financing and repair. Under its authority granted by the Federal Clean Water Act, EPA seeks to address sanitary sewer overflows (SSO) under the CMOM program.

In general, the CMOM guide can be summarized in the following elements:

1. General performance standards including collection system maps, information management, and odor control.
2. Program documentation including the goals, organizational, and legal authority of the organization operating the collection system.
3. An overflow response plan that requires response in less than 1 hour and is demonstrated to have sufficient and adequate personnel and equipment, etc. Estimated volumes and duration of overflows must be accurately measured and reported to the regulatory agency.
4. System evaluation requires that the entire system be cleaned on a scheduled basis (for example, once every 5 years), be regularly television inspected, and that a program for short- and long-term rehabilitation replacement be generated. EPA has proposed, as a rule of thumb, a 1.5 to 2 percent system replacement rate, which implies that an entire collection system is replaced somewhere in the range of a 50- to 70-year time period.
5. A capacity assurance plan that will use flow meters to evaluate infiltration and inflow (I&I), ensure lift stations are properly operated and maintained, and that source control is maintained.
6. A self-audit program to evaluate and adjust performance.
7. A communication program to communicate problems, costs, and improvements to the public and decision-makers.

EPA is considering some changes in design standards for collection systems including requiring that sanitary sewer overflows not occur except in extreme storms. They have also decided that they will not predefine the type of storm, leaving that decision to the design engineer.

FEDERAL ENDANGERED SPECIES ACT

The purpose of the 1973 Endangered Species Act (ESA) is to “provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved....” In pursuit of this goal, the ESA authorizes the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) to list species as endangered or threatened as well as to identify and protect the critical habitat of listed species. USFWS has jurisdiction over terrestrial and freshwater plants and animals, such as bull trout, while NMFS is responsible for protection of marine species including anadromous salmon. Under the ESA, endangered status is conferred upon “any species which is in danger of extinction throughout all or a significant portion of its range....,” while threatened status is conferred upon “any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.” The ESA defines critical habitat as the “geographical area containing physical and biological features essential to the conservation of the species.”

Once a species is listed as endangered or threatened, the ESA makes it illegal for the government or individuals to “take” a listed species. “Take” is defined in Section 9 of the act and includes killing, hunting, trapping, or otherwise “harming” the listed species or habitat the species depends upon. The federal courts have interpreted the term “take” to include “significant modification or degradation of critical habitat” that impairs essential behavior patterns. For species listed as endangered, the blanket prohibitions against “take” are immediate.

The ESA Section 9 “take” prohibition applies to all “persons” including local public entities. State and local governments face twin exposures to the “take” prohibition through their direct conduct and through the exercise of their regulatory authority over activities that may result in a “take.” ESA listings significantly affect activities that affect salmon and bull trout habitat, such as water use, land use, construction activities, wastewater disposal, and stormwater management.

Threatened species may be protected through a more flexible Section 4(d) rule that describes activities that are likely to result in a “take” and exempts certain activities from “take” liabilities so long as the “take” occurs as the result of a program that adequately protects the listed species and its habitat. The 4(d) rule approves some specific existing state and local programs, and creates a means for NMFS to approve additional programs if they meet certain standards set out in the rule. The 4(d) rule is intended to encourage governments and private citizens to adjust their programs and activities to be “salmon safe.”

NATIONAL ENVIRONMENTAL POLICY ACT

The National Environmental Policy Act (NEPA) was established in 1969 and requires federal agencies to determine environmental impacts on all projects requiring federal permits or funding. Federally delegated activities such as NPDES permits or Section 401 certification are considered state actions and do not require NEPA compliance. If a project involves federal action (through, for example, an Army Corps of Engineers Section 404 permit), and is determined to be environmentally insignificant, a Finding of No Significant Impact (FONSI) is issued; otherwise, an Environmental Assessment (EA) or Environmental Impact Statement (EIS) would be required. NEPA is not applicable to projects that do not include a federal component or nexus.

When both federal and state licenses or permits are required, then both NEPA and SEPA requirements must be met. WAC 197-11-610 allows the use of NEPA documents to meet SEPA requirements.

FEDERAL CLEAN AIR ACT

The Federal Clean Air Act requires all wastewater facilities to plan to meet the air quality limitations of the region. McCleary falls in the jurisdiction of the Olympic Clean Air Agency. Ecology is responsible for enforcing federal, state and local outdoor air quality standards and regulations in Grays Harbor County.

STATE STATUTES, REGULATIONS, AND PERMITS

STATE WATER POLLUTION CONTROL ACT

The intent of the State Water Pollution Control Act is to “maintain the highest possible control standards to ensure the purity of all waters of the state consistent with public health and the enjoyment...the propagation and protection of wildlife, birds, game, fish and other aquatic life, and the industrial development of the state.” Under the Revised Code of Washington (RCW) 90.48 and the Washington Administrative Code (WAC) 173-240, Ecology issues permits for wastewater treatment facilities and land application of wastewater under WAC 246-271.

Submission of Plans and Reports for Construction of Wastewater Facilities, WAC 173-240

Prior to construction or modification of domestic wastewater facilities, engineering reports, plans, and specifications must be submitted to and approved by Ecology. This regulation outlines procedures and requirements for the development of an engineering report that thoroughly examines the engineering and administrative aspects of a domestic wastewater facility project. This State regulation defines a facility plan as an engineering report under federal regulations, 40 CFR Part 35.

Key provisions of WAC 173-240 are provided below:

- An engineering report for a wastewater facility project must contain everything required for a general sewer plan unless an up-to-date general sewer plan is on file with Ecology.
- An engineering report shall be sufficiently complete so that plans and specifications can be developed from it without substantial changes.
- A wastewater facility engineering report must be prepared under the supervision of a professional engineer.

Criteria for Sewage Works Design, Washington State Department of Ecology

Ecology has published design criteria for collection systems and wastewater treatment plants. While these criteria are not legally binding, their use is strongly encouraged by Ecology since the criteria are used by the agency to review engineering reports for upgrading wastewater treatment systems. Commonly referred to as the “Orange Book,” these design criteria primarily emphasize unit processes through secondary treatment, and also include criteria for planning and design of wastewater collection systems. Any expansion or modification of the City of McCleary’s collection system and/or WWTP will require conformance with Ecology criteria unless the City demonstrates alternate standards provide similar reliability and efficacy.

Certification of Operators of Wastewater Treatment Plants, WAC 173-230

Wastewater treatment plant operators are certified by the State Water and Wastewater Operators Certification Board. The operator assigned overall responsibility for operation of a wastewater treatment plant is defined by WAC 173-230 as the “operator in responsible charge.” This individual must have State certification at or above the classification rating of the plant.

The City of McCleary’s WWTP is currently assigned a Class II rating and the operating staff assigned to the plant must have the required certification. The operator in charge must have at least a Class II certification and any operators in charge of each shift must have a Class I certification. The City currently employs one Class III operator and one Class II operator for the WWTP.

Surface Water Quality Standards (WAC 173-201A)

WAC 173-201A establishes water quality standards within Washington State. The State adopted revised water quality standards in May 2011. The standards are based on two objectives: protection of public health and enjoyment, and protection of fish, shellfish, and wildlife. For each surface water body in the State, the standards assign specific uses, such as aquatic life, recreation, or water supply. Water quality standards have been

developed for each use for parameters such as fecal coliform, dissolved oxygen, temperature, pH, turbidity, and toxic, radioactive, and deleterious substances. The surface water criteria include 29 toxic substances, including ammonia, residual chlorine, several heavy metals, polychlorinated biphenyls (PCBs), and pesticides.

It is the policy of the State of Washington to maintain existing beneficial uses of surface water by preventing degradation of existing water quality. However, certain allowances are made by Ecology for discharging treated wastewater into a surface water that enable a temporary or mitigated degradation to occur. These allowances are made by establishing mixing zones and determining the assimilative capacity of the receiving water.

The anti-degradation policy aims to maintain the highest possible quality of water in the State by preventing the deterioration of water bodies that currently have higher quality than the water quality standards require. The revised water quality standards define three tiers of waters in the anti-degradation policy:

- Tier I water bodies are those with violations of water quality standards from natural or human-caused conditions. The focus of water quality management is on maintaining or improving current uses and preventing any further human-caused degradation.
- Tier II water bodies are those of higher quality than required by the water quality standards. The focus of the policy is on preventing degradation of the water quality and to preserve the excellent natural qualities of the water body. New or expanded actions are not allowed to cause a “measurable change” in the water quality unless they are demonstrated to be “necessary and in the overriding public interest.”
- Tier III are the highest quality “outstanding resource waters.” Tier III(A) prohibits any and all future degradation, or Tier III(B) which allows for de minimis (below measurable amounts) degradation from well-controlled activities.

Discharging to surface water requires an NPDES permit issued by Ecology under WAC 173-220. Wastewater treatment plants must generally, at a minimum, meet technology-based limits that include 30 mg/L total suspended solids (TSS) and 30 mg/L 5-day biochemical oxygen demand (BOD₅) (typically termed “30-30 limits”). Additionally, under WAC 173-201A-060, State Water Quality Standards, Ecology is authorized to condition NPDES permits so that the discharge meets water quality standards. Therefore, other permit conditions in addition to or more stringent than the 30-30 limits could be added to ensure that the water quality of the receiving water is not degraded.

RECLAIMED WATER STANDARDS

The State *Water Reclamation and Reuse Standards* define the water quality standards for reclaimed water. The City of McCleary WWTP does not generate reclaimed water; a discussion of this issue as it relates to the McCleary WWTP is provided in Chapter 5, as required by State regulations.

The standards for the use of reclaimed water are outlined in RCW 90.46 and in a separate document published by the Washington State Departments of Health and Ecology entitled “Water Reclamation and Reuse Standards.” Reclaimed water is the effluent derived from a wastewater treatment system that has been adequately and reliably treated, such that it is no longer considered wastewater and is suitable for a beneficial use or a controlled use that would not otherwise occur. The legislature has declared that “the utilization of reclaimed water by local communities for domestic, agricultural, industrial, recreational, and fish and wildlife habitat creation and enhancement purposes (including wetland enhancement) will contribute to the peace, health, safety, and welfare of the people of the State of Washington.”

The generation of Class A reclaimed water has four minimum requirements that are described below:

1. **Continuously Oxidized** – Wastewater that at all times has been stabilized such that the monthly average BOD₅ and TSS are less than 30 mg/L, is non-putrescible, and contains dissolved oxygen.
2. **Continuously Coagulated** – Oxidized wastewater that at all times has been treated by a chemical or equally effective method to destabilize and agglomerate colloidal and finely suspended matter prior to filtration.
3. **Continuously Filtered** – Oxidized and coagulated wastewater that at all times has been passed through a filtering media so that the turbidity of the filtered effluent does not exceed an average of 2 nephelometric turbidity units (NTU), determined monthly, and does not exceed 5 NTU at any time.
4. **Continuously Disinfected** – Oxidized, coagulated, and filtered wastewater that at all times has been disinfected to kill or inactivate pathogenic organisms. A group of indicator microorganisms, coliform bacteria, are used to measure the effectiveness of the disinfection process. The Class A reclaimed water standard is a total coliform density of 2.2 per 100 milliliters (ml) for the median of the last 7 days of samples, with no sample having a density greater than 23 per 100 ml.

Reclaimed water may be used to recharge groundwater by surface percolation or through direct injection, as long as the quality of the reclaimed water meets groundwater recharge criteria which are defined in the Reuse Standards. Groundwater recharge projects must also be in compliance with the State's groundwater regulations listed in WAC 173-200. This regulation contains groundwater quality criteria that are to be met in the saturated zone. Recharge of groundwater with reclaimed water would require a state waste discharge permit issued by Ecology. Ecology may also require the development of a groundwater monitoring program to ensure degradation does not occur.

Discharge of reclaimed water for the purpose of stream flow augmentation, fish and wildlife habitat, irrigation supply, or water right replenishment or transfer must comply with WAC Chapter 173-201A. A beneficial use of the reclaimed water must be established for the project to be accepted as a stream flow augmentation project.

Short-term storage or an alternative disposal system (e.g., an outfall) must be provided for situations where the reclaimed water cannot be used due to bad weather, reduced demand, etc. Provisions must also be made for storage or disposal of water that does not meet the treatment and water quality criteria, perhaps due to a treatment upset or equipment failure.

The Reuse Standards require reliability for individual treatment units such as biological treatment, secondary clarification, coagulation, filtration, and disinfection. Generally, if long-term storage or an alternative disposal method is not available, the facility must have redundant units each capable of treating the entire flow, or short-term storage with standby replacement equipment provided. Furthermore, coagulation and chlorination unit processes must have standby chemical feed equipment provided, regardless of storage and disposal options, to ensure uninterrupted chemical feed.

Washington State began a rulemaking process in 2006 to update and to convert the 1997 Water Reclamation and Reuse Standards (Washington State Department of Ecology, 1997) into a regulation, the Reclaimed Water Rule, Chapter 173-219 Washington Administrative Code (Washington State Department of Ecology, 2010). The rule is intended to provide a consistent and efficient regulatory process as well as to be sufficiently adaptable in order to govern reclaimed water production over a long time period.

The rule refers to a Reclaimed Water Facilities Manual, a.k.a., the "Purple Book," for supplemental guidance on implementing the rule. Gray & Osborne, Inc. was retained by the Washington Coalition for Clean Water and the Washington State Department of Ecology (Ecology) to assist in development of the manual, which has been released in draft form for review by stakeholders. The date for final adoption of the Reclaimed Water Rule is uncertain due to State financial and policy issues; the current target for adoption (as of January 2017) is fall 2017.

STATE ENVIRONMENTAL POLICY ACT

WAC 173-240-050 requires a statement in all wastewater comprehensive plans regarding proposed projects in compliance with the State Environmental Policy Act (SEPA), if applicable. The capital improvements proposed in this plan will fall under SEPA regulations. A SEPA checklist is included in Appendix E of this plan for use in the environmental review for the project. In most cases, a Determination of Non-Significance (DNS) is issued; however, if a project will have a probable significant adverse environmental impact, an Environmental Impact Statement (EIS) will be required.

ACCREDITATION OF ENVIRONMENTAL LABORATORIES (WAC 173-050)

The State of Washington established a requirement that all laboratories reporting data to comply with NPDES permits must be generated by an accredited laboratory. This accreditation program establishes specific tasks for quality control and quality assurance (QA/QC) that are intended to ensure the integrity of laboratory procedures. Accreditation requirements must be met for any on-site laboratory or outside laboratory used to analyze samples. Only accredited laboratories may be used for analyses reported for compliance with NPDES permits. In planning for an on-site laboratory, staffing must be sufficient to allow for QA/QC procedures to be performed. The McCleary WWTP laboratory is currently accredited for testing the following parameters: TSS, BOD₅, ammonia, dissolved oxygen, pH, and fecal coliform.

MINIMAL STANDARDS FOR SOLID WASTE HANDLING (WAC 173-304)

Grit and screenings are not subject to the sludge regulations in WAC 173-308, but their disposal is regulated under the State solid waste regulations, WAC 173-304. Waste placed in a municipal solid waste landfill must not contain free liquids, nor exhibit any of the criteria of a hazardous waste as defined by WAC 173-303. To be placed in a municipal solid waste landfill, grit, screenings, and incinerator ash must pass the paint filter test. This test determines the amount of free liquids associated within the solids and includes the toxic characteristic leachate procedure (TCLP) test, which determines if the waste has hazardous characteristics.

WETLANDS

Dredging and Filling Activities in Natural Wetlands (Section 404 of the Federal Water Pollution Control Act)

A U.S. Army Corps of Engineers permit is required when locating a structure, excavating, or discharging dredged or fill material in waters of the United States or transporting dredged material for the purpose of dumping it into ocean waters. Typical projects requiring these permits include the construction and maintenance of piers, wharves, dolphins, breakwaters, bulkheads, jetties, mooring buoys, and boat ramps.

If wetland fill activities cannot be avoided, the negative impacts can be mitigated by creating new wetland habitat in upland areas. If other federal agencies agree, the Corps would generally issue a permit.

Wetlands Executive Order 11990

This order directs federal agencies to minimize degradation of wetlands and enhance and protect the natural and beneficial values of wetlands. This order could affect the siting of lift stations and sewer lines.

SHORELINE MANAGEMENT ACT

The Shoreline Management Act of 1971 (RCW 90.58) establishes a broad policy giving preference to shoreline uses that protect water quality and the natural environment, depend on proximity to the water, and preserve or enhance public access to the water. The Shoreline Management Act jurisdiction extends to lakes or reservoirs of 20 acres or greater, streams with a mean annual flow of 20 cubic feet per second (cfs) or greater, marine waters, and an area inland 200 feet from the ordinary high-water mark. Projects are reviewed by local governments according to State guidelines.

The shoreline areas established within the City of McCleary are generally south of SR 8, outside the existing and proposed sewer service areas. (Sewer service areas are discussed further in Chapter 6 of this plan.) The minor exception to this is the Urban Conservancy area designated to the north of Wildcat Pond, which extends into the right of way on the north side of SR 8. A copy of the Official Shorelines Map for McCleary (taken from the June 2016 City of McCleary Shoreline Master Program) is provided in Appendix F.

Development of sewer infrastructure is not expected to impact currently established shoreline areas within the City of McCleary.

FLOODPLAIN DEVELOPMENT PERMIT

Local governments that participate in the National Flood Insurance Program are required to review projects in a mapped floodplain and impose conditions to reduce potential flood damage from floodwater. A Floodplain Development Permit is required prior to construction, including projects involving wastewater collection facilities.

HYDRAULIC PROJECT APPROVAL

Under the Washington State Hydraulic Code (WAC 220-110), the WDFW requires a hydraulic project approval (HPA) for activities that will “use, divert, obstruct, or change the natural flow or bed” of any waters of the State. For City activities, such as pipeline crossings of streams or WWTP outfall modifications, an HPA will be required. The HPA

will include provisions necessary to minimize project-specific and cumulative impacts to fish.

CITY SEWER ORDINANCES AND PLANNING POLICIES

INTRODUCTION

Section 13.12 Sewer System of the City of McCleary Municipal Code regulates sewer services. This section of the municipal code has been included in Appendix A. The sewer ordinances address such issues as requirements for connections to sewer system, requirements for sewer installation by developers, development requirements for private sewer systems, conditions for sewer service extensions, and sewage pretreatment regulations.

Article V of Section 13.12 of the McCleary Municipal Code, titled “Use of the Public Sewers” includes standards for use of the public sewers, a list of substances prohibited from the sewer system, and requirements for pretreatment facility design and operation for dischargers of fats, oils, and greases (e.g., food service establishments).

CONNECTIONS TO THE PUBLIC SEWER

Per Section 13.12.050 Connection to public sewer—General Requirements of the code, *“The owner of all houses, building, or properties used for human occupancy, employment, recreation, or other purposes, situated within the city and abutting on any street, alley or right-of-way in which there is now located a public sanitary or combined sewer of the city, is required, at the owner's expense, to connect any toilets or waste receptacle facilities directly with the proper public sewer in accordance with the provisions of this chapter, within ninety days after date of official notice to do so, provided that said public sewer is within two hundred feet (sixty-one meters) of the building line.”* If the public sewer is not within 200 feet of the building line, a private wastewater disposal system may be used. Requirements for private wastewater disposal are detailed in Article III of the Section 13.12 of the code.

STORM DRAINAGE CONNECTIONS TO SEWER PROHIBITED

Per Section 13.12.190 Surface runoff—Connection approval required of the code, *“No person(s) shall make connection of roof downspouts, foundation drains, areaway drains, or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer unless such connection is approved by the utility coordinator for purposes of disposal of polluted surface drainage.”*

SEWER EXTENSIONS OUTSIDE CITY BOUNDARIES

Per Section 13.12.270 Sewer main extension outside city boundaries of the code, *“Sewer main extension outside the city boundaries must be approved by the city council and the costs thereof will be charged against the requesting property owner, the requesting property owner being reimbursed by other adjoining property owners as their connections are made.”*

CHAPTER 3

LAND USE, POPULATION PROJECTIONS, AND SERVICE AREA CHARACTERISTICS

The City of McCleary's current City limits encompasses approximately 2.07 square miles of land located in the southeast portion of Grays Harbor County, approximately 20 miles west of Olympia. The nearest incorporated area is Elma, located approximately 8 miles west. State Routes 8 and 108 pass through the City. Figure 3-1 provides a vicinity map of the area.

SEWER SERVICE AREAS

The City of McCleary has its own designated sewer service area. All wastewater is treated at the McCleary Wastewater Treatment Plant (WWTP).

CITY OF MCCLEARY

The City of McCleary's current sewer service area includes approximately 385 acres within its corporate limits as shown on Figure 3-2. The collection system is primarily conventional gravity sewer systems. The collection system consists of an estimated 54,936 total feet of gravity sewer ranging in size from 6" to 12" and approximately 1,930 total feet of force main ranging in size from 3" to 6" with six pump stations.

ADJACENT SEWER SERVICE AREAS

There are no adjacent sewer service areas to the McCleary system. The nearest sewer service area to the City is the City of Elma, which is approximately 8 miles west of McCleary.

NATURAL ENVIRONMENT

TOPOGRAPHY

Topography within the City's service area ranges from approximately 240 feet at the west end of the City to 447 feet above mean sea level at the City's reservoirs. The city center lies at approximately 270 feet. The City Wastewater Treatment Plant lies at approximately 250 ft. Figure 3-3 illustrates the topography of the City.

GEOLOGY

The geology within the City of McCleary is characterized by sedimentary and glacial deposits overlaying basaltic and sedimentary bedrock.

The northern half of the City of McCleary is located above the Wildcat Creek Aquifer. This aquifer system supplies the City’s drinking water via a shallow, unconfined aquifer that mainly consists of sand and gravel fragments. Due to its shallow nature, the aquifer has been identified as susceptible to contamination from surface runoff sources.

SOILS

The soils of Grays Harbor County were surveyed by the Soil Conservation Service (SCS) in 1983. The SCS indicates that the soils in McCleary are comprised of a mix of sandy, gravelly and silty loams.

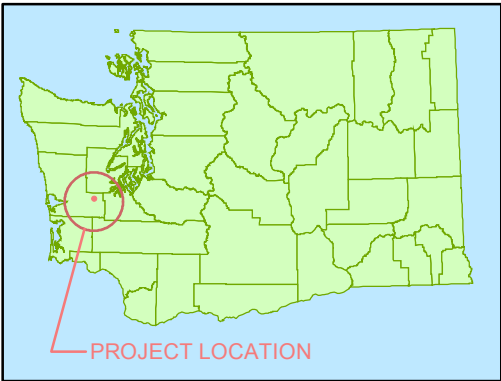
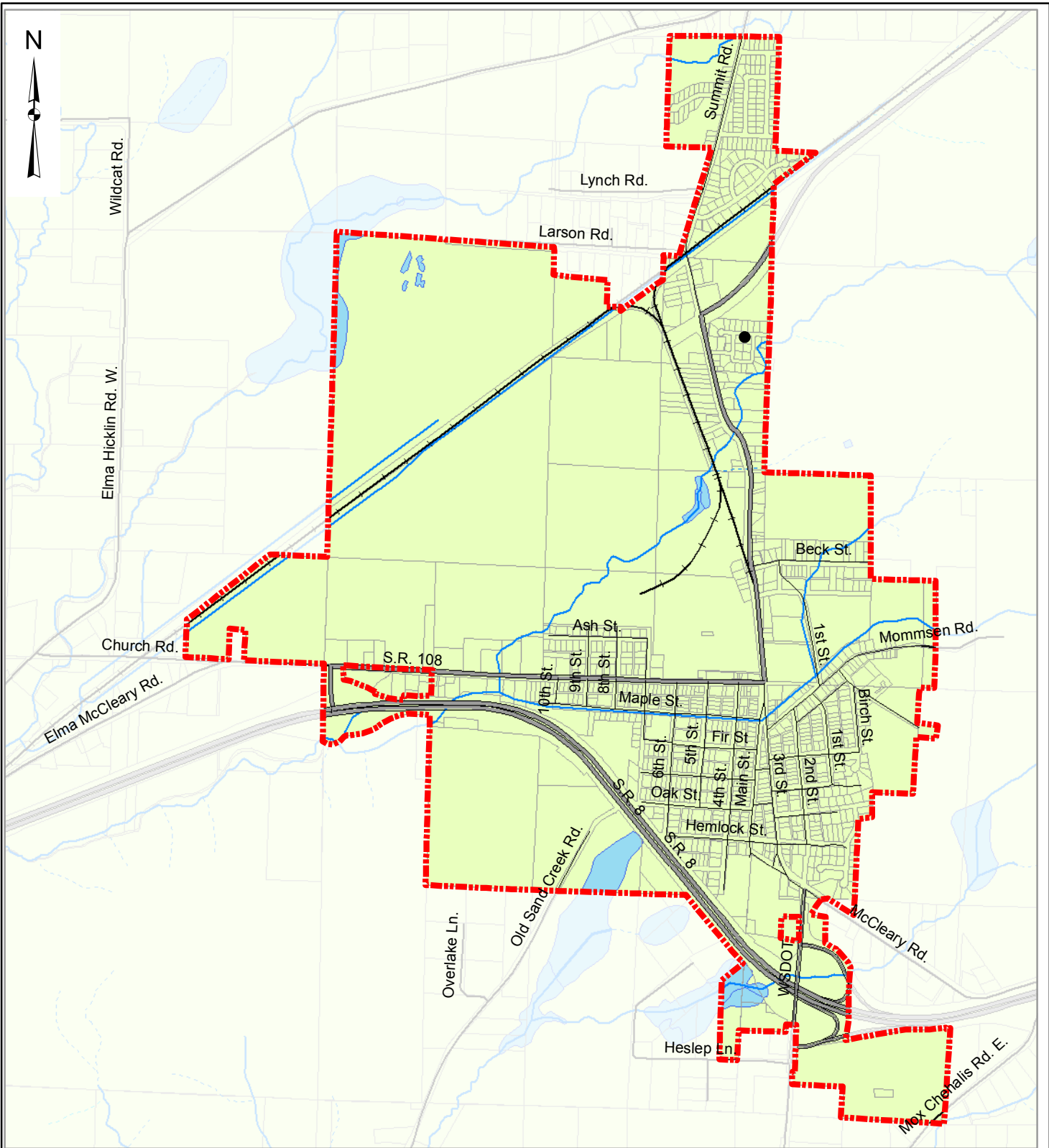
Figure 3-4 illustrates the soils found within the City.

The SCS classifies soils according to runoff potential: Type A (low runoff potential) through Type D (high runoff potential). The SCS also provides information pertaining to the physical and chemical properties of the soils in the area. Table 3-1 summarizes information of the soil groups found in the City of McCleary.

TABLE 3-1

Soil Characteristics

Soil	HSG	Area (ac)	Area (%)
Buckpeak silt loam	B	68.6	5.2%
Carstairs very gravelly loam	A	226.8	17.3%
Humptulips silt loam	B	52.5	4.0%
Lyre variant very gravelly sandy loam	C	321.8	24.6%
Melbourne silt loam	B	33.2	2.5%
Montesa silt loam	C	43.3	3.3%
Nemah silty clay loam	D	103.0	7.9%
Norma sandy loam	D	12.9	1.0%
Olympic clay loam	B	116.0	8.9%
Pits, gravel		8.1	0.6%
Salzer silty clay	D	50.9	3.9%
Schneider very gravelly silt loam	B	7.4	0.6%



CITY OF McCLEARY

GENERAL SEWER PLAN

FIGURE 3-1
VICINITY MAP



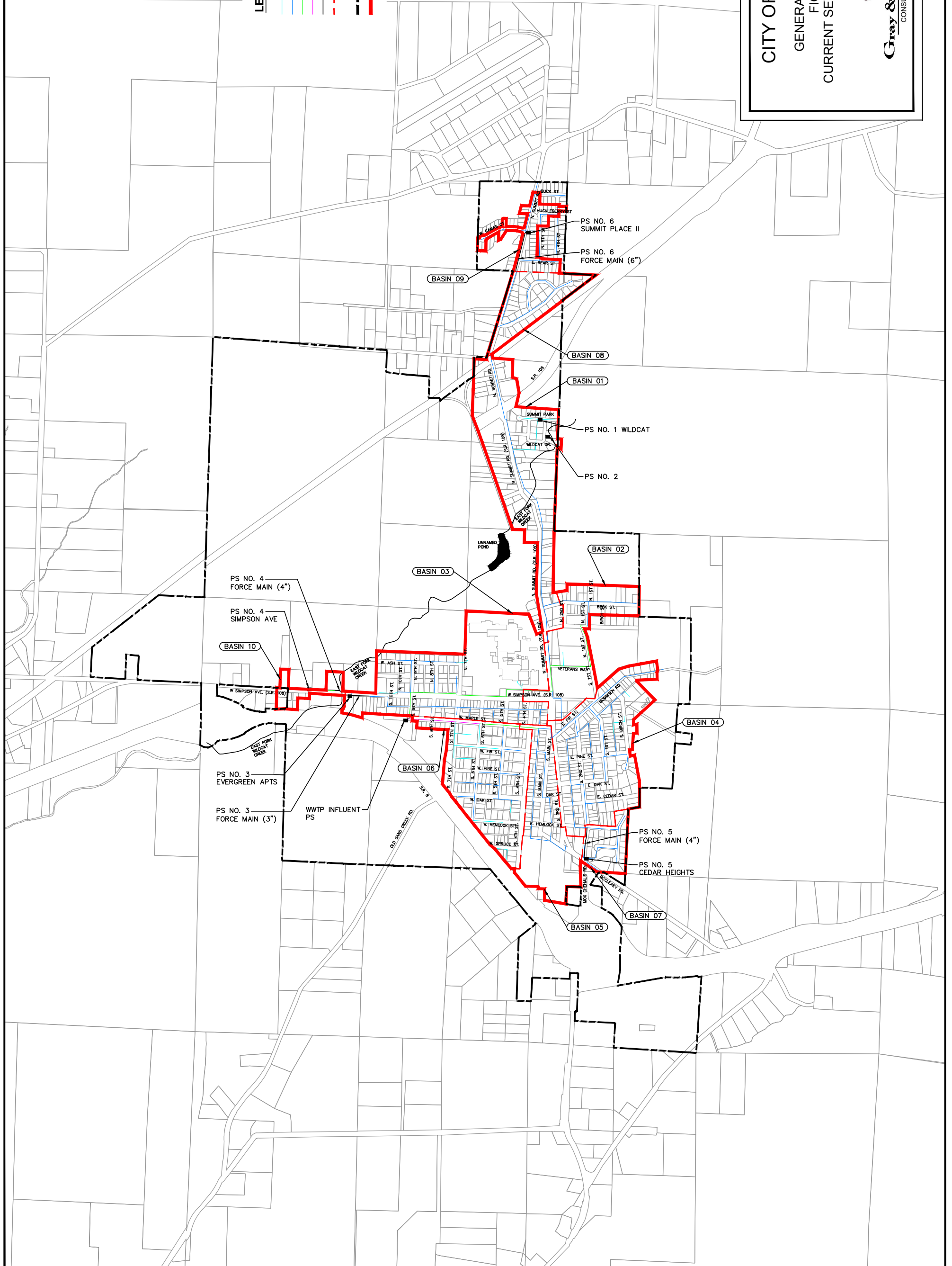


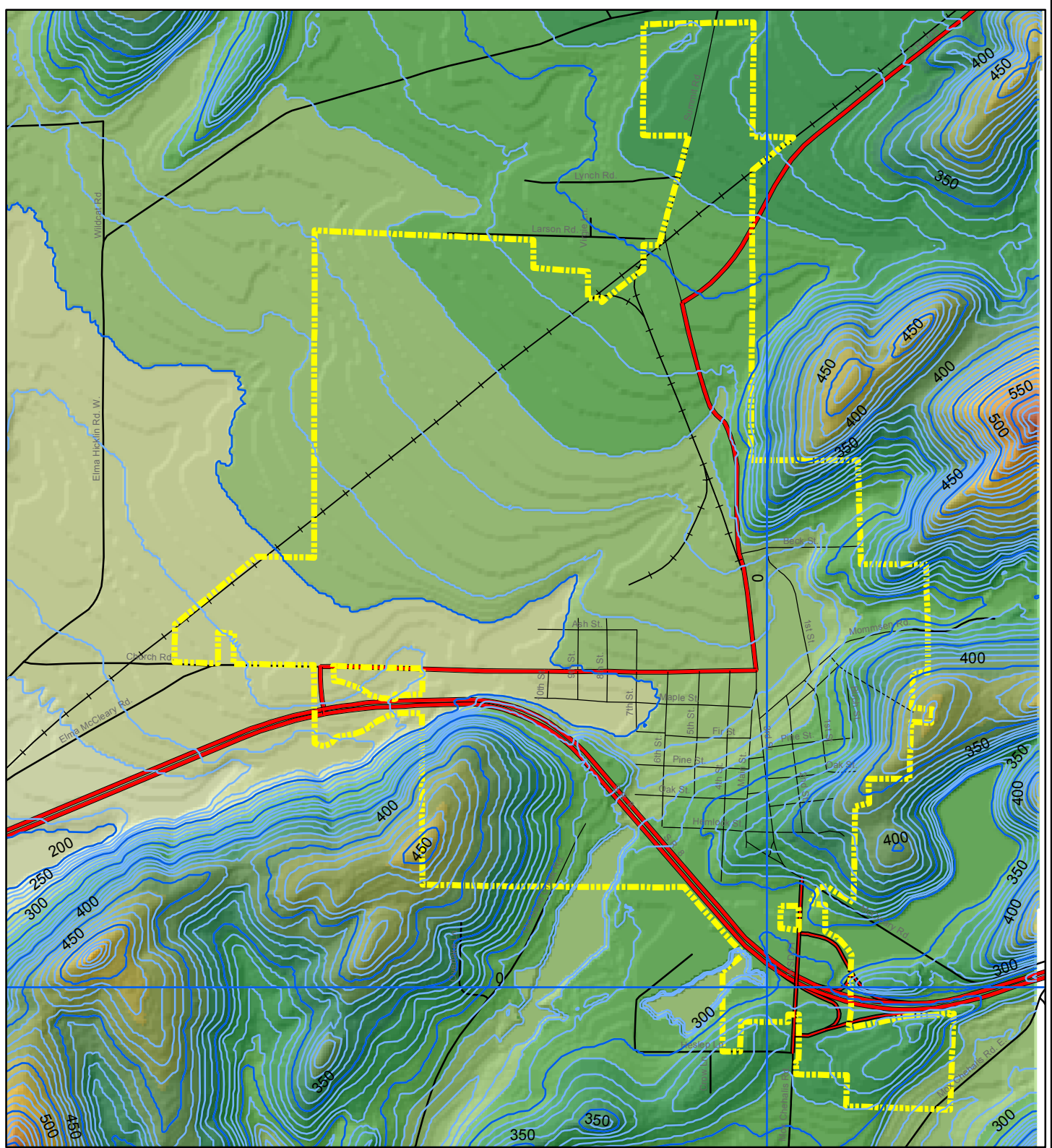
LEGEND:

- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- BASIN BOUNDARY LINE
- PUMP/LIFT STATION
- CITY LIMITS
- CURRENT SEWER SERVICE AREA

CITY OF MCCLEARY
GENERAL SEWER PLAN
FIGURE 3-2
CURRENT SEWER SERVICE AREA

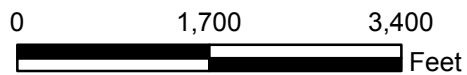
Gray & Osborne, Inc.
CONSULTING ENGINEERS





LEGEND:

-  CITY LIMITS
-  50-ft contours
-  10-ft contours

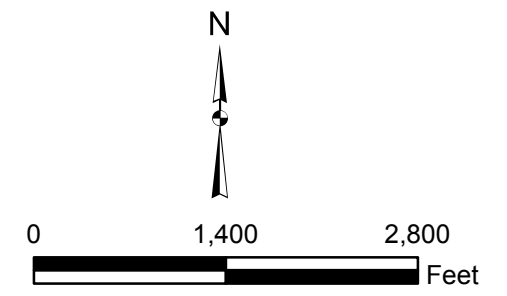
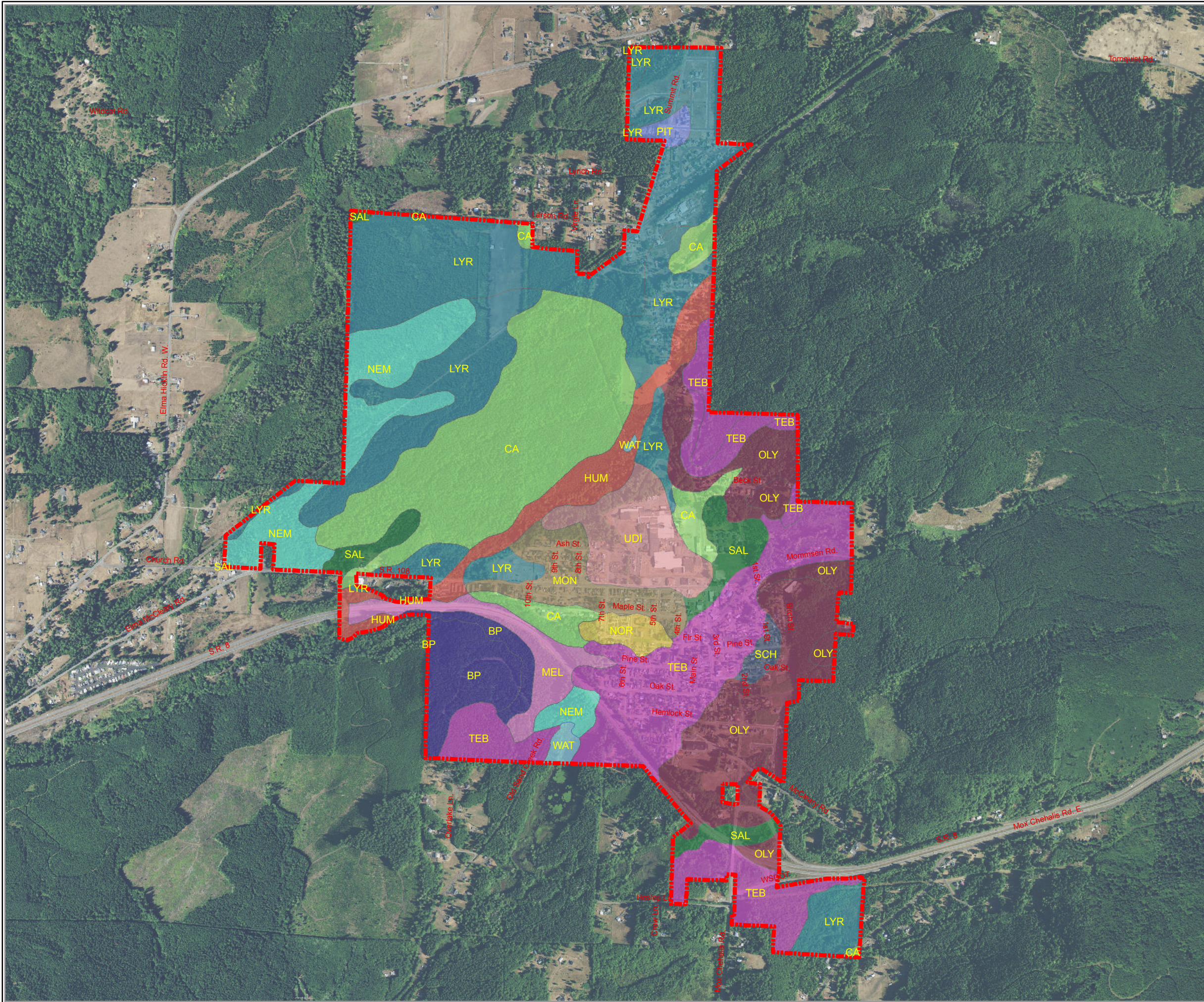


CITY OF McCLEARY

GENERAL SEWER PLAN

FIGURE 3-3
TOPOGRAPHY MAP





LEGEND:

CITY LIMITS

PARCELS

SOIL NAME:

- Buckpeak silt loam - BP
- Carstairs very gravelly loam - CA
- Humptulips silt loam - HUM
- Lyre variant very gravelly sandy loam - LYR
- Melbourne silt loam - MEL
- Montesa silt loam - MON
- Nemah silty clay loam - NEM
- Norma sandy loam - NOR
- Olympic clay loam - OLY
- Pits, gravel - PIT
- Salzer silty clay - SAL
- Schneider very gravelly silt loam - SCH
- Tebo silt loam - TEB
- Udipsamments - UDI
- Water - WAT

SOURCE: GRAYS HARBOR COUNTY AND USDA

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 3-4
 SOILS MAP

Gray & Osborne, Inc.
 CONSULTING ENGINEERS

TABLE 3-1 - (continued)

Soil Characteristics

Soil	HSG	Area (ac)	Area (%)
Tebo silt loam	B	201.1	15.4%
Udipsamments	A	56.2	4.3%
Water		6.1	0.5%
Total		1,308	100%

CLIMATE

The climate of the City is heavily influenced by the moderating effects of the Pacific Ocean, and is characterized by warm, dry summers and mild, wet winters. The annual average precipitation is approximately 59 inches. Table 3-2 summarizes monthly averages for high and low temperatures as well as precipitation for the City of McCleary.

TABLE 3-2

Average Rainfall and Temperature Data, McCleary, Washington

Month	Avg. High Temperature	Avg. Low Temperature	Average Precipitation
January	47°F	33°F	10.07 in.
February	51°F	34°F	8.53 in.
March	56°F	36°F	7.36 in.
April	61°F	38°F	4.92 in.
May	67°F	43°F	3.17 in.
June	72°F	46°F	2.27 in.
July	77°F	49°F	1.19 in.
August	78°F	49°F	1.40 in.
September	74°F	45°F	2.87 in.
October	63°F	39°F	5.68 in.
November	52°F	35°F	10.16 in.
December	46°F	32°F	11.18 in.

SENSITIVE AREAS

An inventory of the City's sensitive areas is necessary to identify aquifer recharge areas, critical habitat areas, geologically hazardous areas, floodplains, and wetlands.

AQUIFER RECHARGE AREAS

The City of McCleary receives all of its drinking water from the Wildcat Creek Aquifer through two 90-foot deep wells located just north of the City near the intersection of Summit and Larson Roads. The Wildcat Aquifer has been designated as a sole source aquifer. Approximately one-third of the aquifer lies within the City of McCleary, including the downtown commercial district and the Simpson Mill. The remainder of the aquifer lies in unincorporated Grays Harbor County.

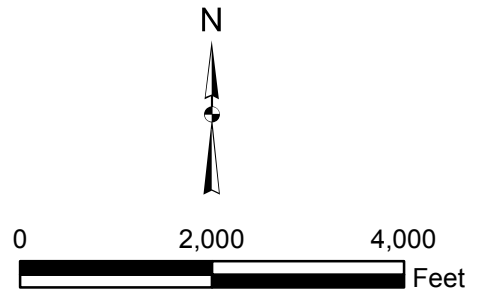
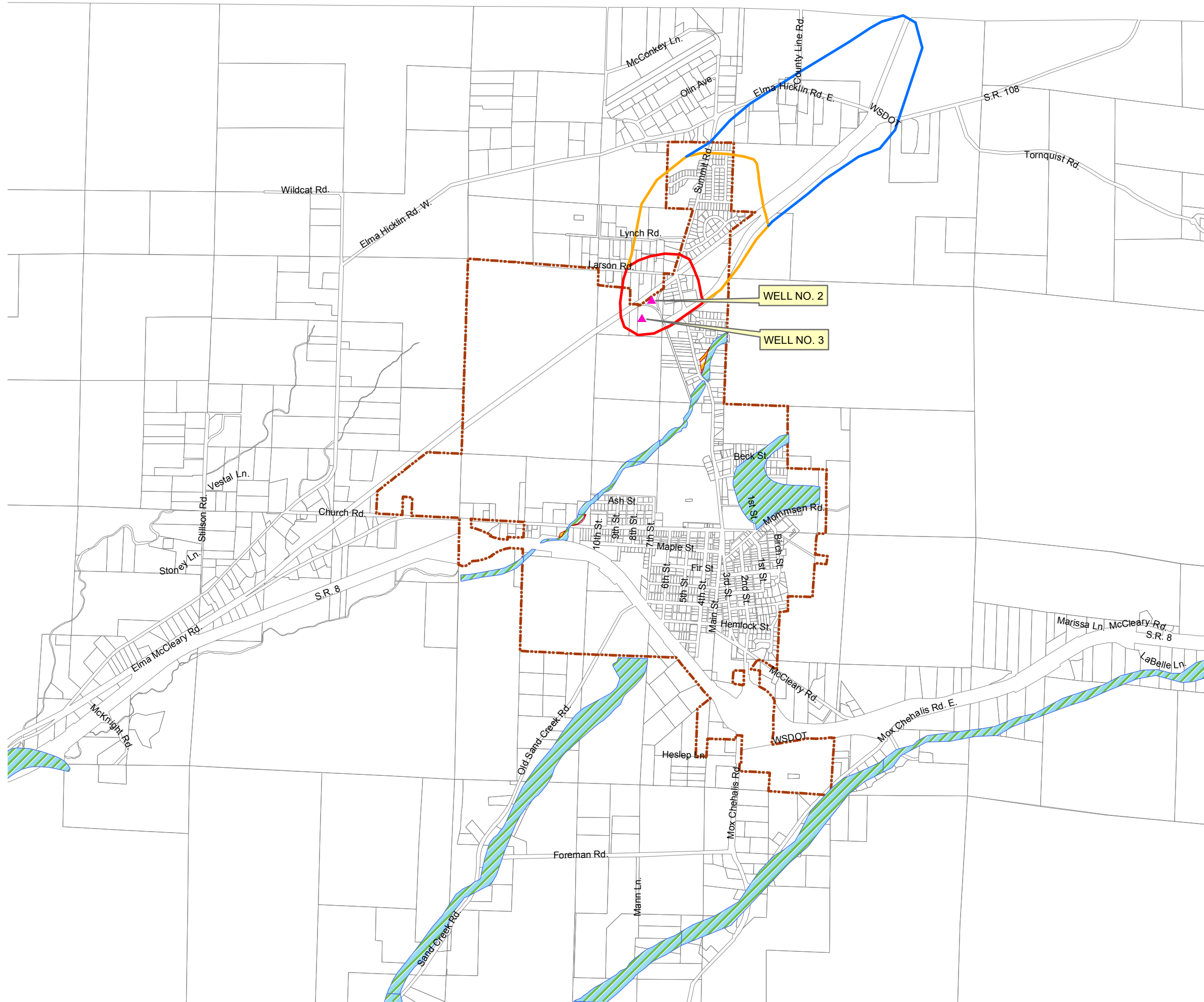
The Wildcat Creek aquifer supplies water to three Group B public water system wells and two other Group A public water system wells in addition to supplying the City of McCleary's water. Some recharge comes from the surrounding hillside; however the aquifer's main source of recharge is percolation of precipitation from the surface. The overlying silty or clayey till matrix delays percolation of rain water to the aquifer providing some protection of water quality.

In an effort to safeguard the water supply, the City has a Wellhead Protection Program in place as required by the Washington State Department of Health (DOH). The wellhead protection program incorporates broad concepts such as land use regulations and pollution prevention. As shown in Figure 3-5, the aquifer protection area extends northeasterly from the City's wellsite to the County line.

FLOODPLAINS

The Federal Emergency Management Agency (FEMA) documented areas that are subject to 100- and 500-year floods within the City of McCleary. The 100-year flood has been adopted as the base flood for purposes of floodplain management measures. A 100-year flood area is defined as those lands which are subject to a 1 percent or greater chance of flooding in any one year. The 500-year flood is employed to indicate additional areas of flood risk in the community.

Figure 3-5 delineates the 100-year floodplain boundaries within the City of McCleary. The City's 100-year floodplains are located in two main areas: along the East Fork Wildcat Creek and along an unnamed tributary to East Fork Wildcat Creek, northeast of the intersection of East Mommsen and North 1st Streets.



Legend:

- ▲ WELL
- ▭ CITY LIMITS
- ZONES OF CONTRIBUTION:**
- 1- YEAR
- 5- YEAR
- 10- YEAR
- FLOODPLAIN:**
- ▨ 100 YEAR FLOOD
- ▨ 500 YEAR FLOOD

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 3-5
 WELLHEAD PROTECTION
 AND FLOODPLAIN MAP

Gray & Osborne, Inc.
 CONSULTING ENGINEERS

WETLANDS

Wetlands and riparian corridors perform valuable functions within the ecosystem. Clearing of vegetation, grading, filling, draining, and other activities associated with land development may decrease the ability of the riparian zone to provide drainage, stabilize stream banks, provide wildlife habitat, and filter pollutants from the water. Wetlands receive surface water from surrounding areas and filter pollutants entering these by a combination of physical, chemical, and biological processes.

Wetlands also play a major role in flood control. During flooding, rivers and streams overflow their banks and spread out across the floodplain. Wetlands attenuate the peak flows from storm events by storing water during wet periods and discharging this stored water later during dryer periods. Wetlands also provide habitat and a source of food for fish and wildlife.

Figure 3-6 shows the approximate locations of wetlands within the City limits as identified by the National Wetlands Inventory. The majority of these wetlands are associated with the riparian corridors of streams and tributaries.

GEOLOGICALLY HAZARDOUS AREAS

Geologically hazardous areas include areas susceptible to erosion, sliding, earthquake, or other geological events. They pose a threat to the health and safety of citizens when incompatible commercial, residential, or industrial development is sited in areas of significant hazard.

Erosion Hazard Areas

Erosion hazard areas are those areas thought to be underlain by soils that are subject to severe erosion when exposed. The definition for erosion hazard areas includes, but is not limited to, several particular soil types that commonly erode rapidly because of the nature of their constituents and the engineering properties of the soil.

To ensure that development within erosion hazard areas does not result in erosion or sedimentation problems, particularly those causing damage to downstream wetlands and aquatic areas, clearing and grading can be regulated and erosion control techniques should be implemented. Erosion may be prevalent in steep slope areas. Figure 3-7 shows the approximate locations of areas of steep slopes within the City limits.

Landslide Hazard Areas

Landslide hazard areas include a variety of geologic features that together present hazards to development both above and below the landslide. Landslide hazard areas are potentially subject to landslides based on a combination of geologic, topographic,

including, slope and slope aspect, and hydrologic factors. Landslide hazards include slope failures, large-scale block failures, debris flows, rock falls, and rapid undercutting by stream erosion.

MCCLEARY WATER SYSTEM

This section describes the components of the existing McCleary Water System. Figure 3-8 shows the configuration of the water system and the locations of the system’s various components.

The McCleary Water System consists of two wells and two reservoirs. The wells pump through the water distribution system to two reservoirs located on a ridge east of the City. The system consists of a single pressure zone with an overflow elevation of 472 feet. The service area ranges in elevation from 250 feet to 377 feet.

SOURCE OF SUPPLY

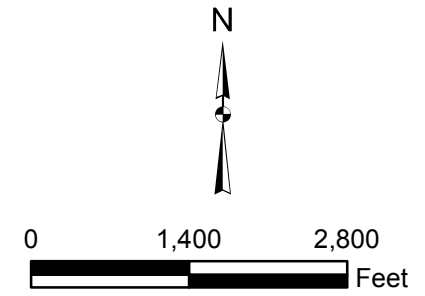
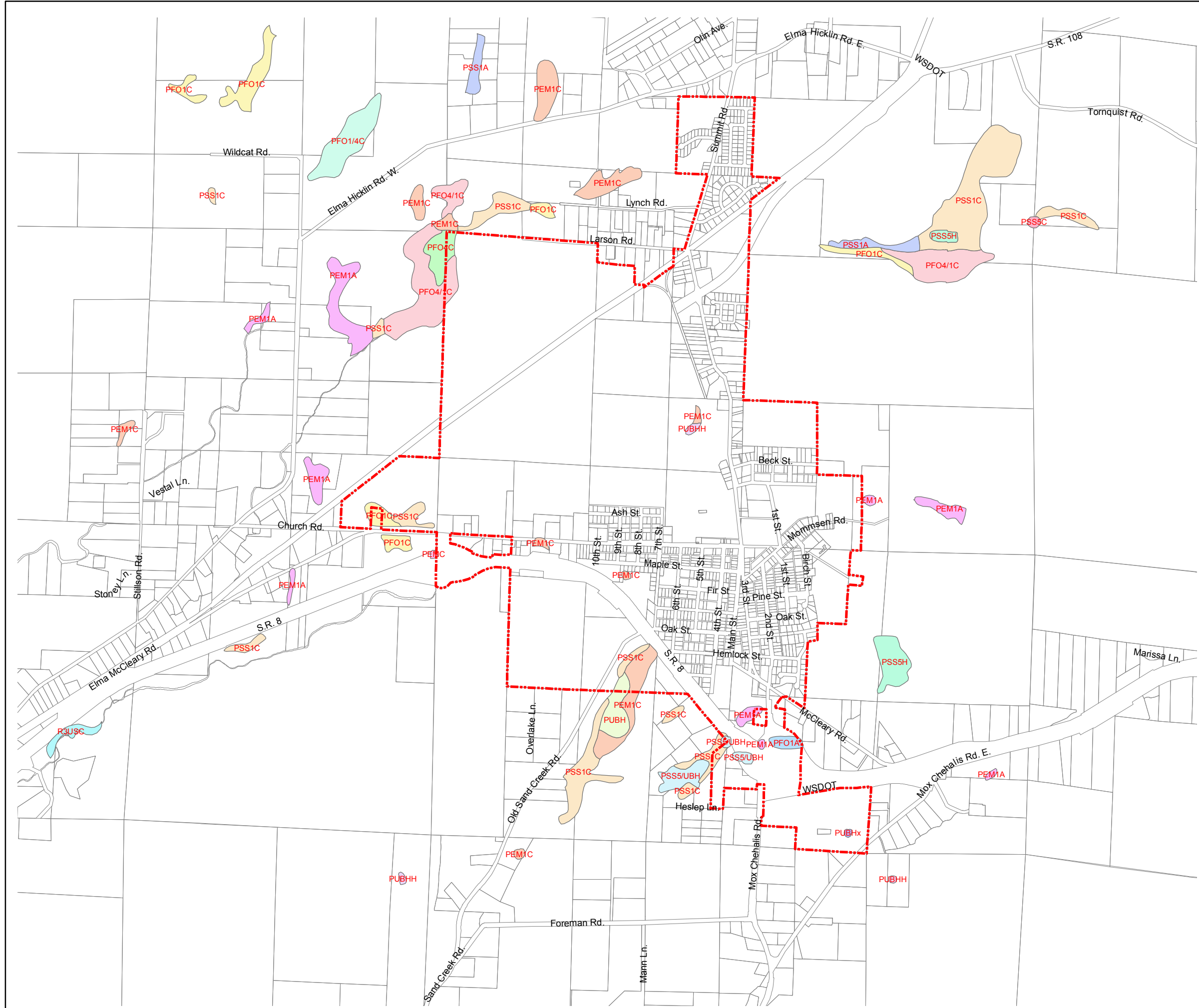
The City is supplied by two wells in a well field. The well field is located north of the City, near the intersection of Summit and Larson Roads in the east half of the northwest quarter of Section 11, Township 18 North, Range 5 West.

There are two wells in this well field that provide service to the McCleary Water System. A third well, Well 1, was decommissioned in 2013. In 2012 and 2013, the wells were inspected and rehabilitated using sonic and mechanical cleaning methods prior to installation of new pumps. Table 3-3 presents data for the two active wells.

TABLE 3-3

McCleary Water System Wells

	Well 2	Well 3
Year Constructed	1952	1962
Year Rehabilitated	2012	2013
Casing Diameter (inches)	20	16
Ground Elevation	300	300
Casing Depth (feet bgs)	94	93
Static Water Depth (feet)	38	38
Motor	US Motors	US Motors
Motor Serial Number	BF43	BF50
Pump Manufacturer	Robbco	Robbco
Horse Power	40	50
RPM	1,800	1,800



- LEGEND:**
- CITY LIMITS
 - PEM1A - [P] Palustrine, [EM] Emergent, [1] Persistent, [A] Temporarily Flooded
 - PEM1C - [P] Palustrine, [EM] Emergent, [1] Persistent, [C] Seasonally Flooded
 - PEMC - [P] Palustrine, [EM] Emergent, [C] Seasonally Flooded
 - PFO1/4C - [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous / , [FO] Forested, [4] Needle-Leaved Evergreen, [C] Seasonally Flooded
 - PFO1A - [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded
 - PFO1C - [P] Palustrine, [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded
 - PFO4/1C - [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen / , [FO] Forested, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded
 - PFO4C - [P] Palustrine, [FO] Forested, [4] Needle-Leaved Evergreen, [C] Seasonally Flooded
 - PSS1A - [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [A] Temporarily Flooded
 - PSS1C - [P] Palustrine, [SS] Scrub-Shrub, [1] Broad-Leaved Deciduous, [C] Seasonally Flooded
 - PSS5/UBH - [P] Palustrine, [SS] Scrub-Shrub, [5] Dead / , [UB] Unconsolidated Bottom, [H] Permanently Flooded
 - PSS5C - [P] Palustrine, [SS] Scrub-Shrub, [5] Dead, [C] Seasonally Flooded
 - PSS5H - [P] Palustrine, [SS] Scrub-Shrub, [5] Dead, [H] Permanently Flooded
 - PUBH - [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded
 - PUBHH - [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [h] Diked/Impounded
 - PUBHx - [P] Palustrine, [UB] Unconsolidated Bottom, [H] Permanently Flooded, [x] Excavated
 - R3USC - [R] Riverine, [3] Upper Perennial, [US] Unconsolidated Shore, [C] Seasonally Flooded

SOURCE: NATIONAL WETLAND INVENTORY

CITY OF McCLEARY

GENERAL SEWER PLAN

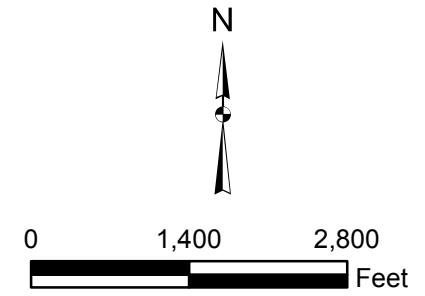
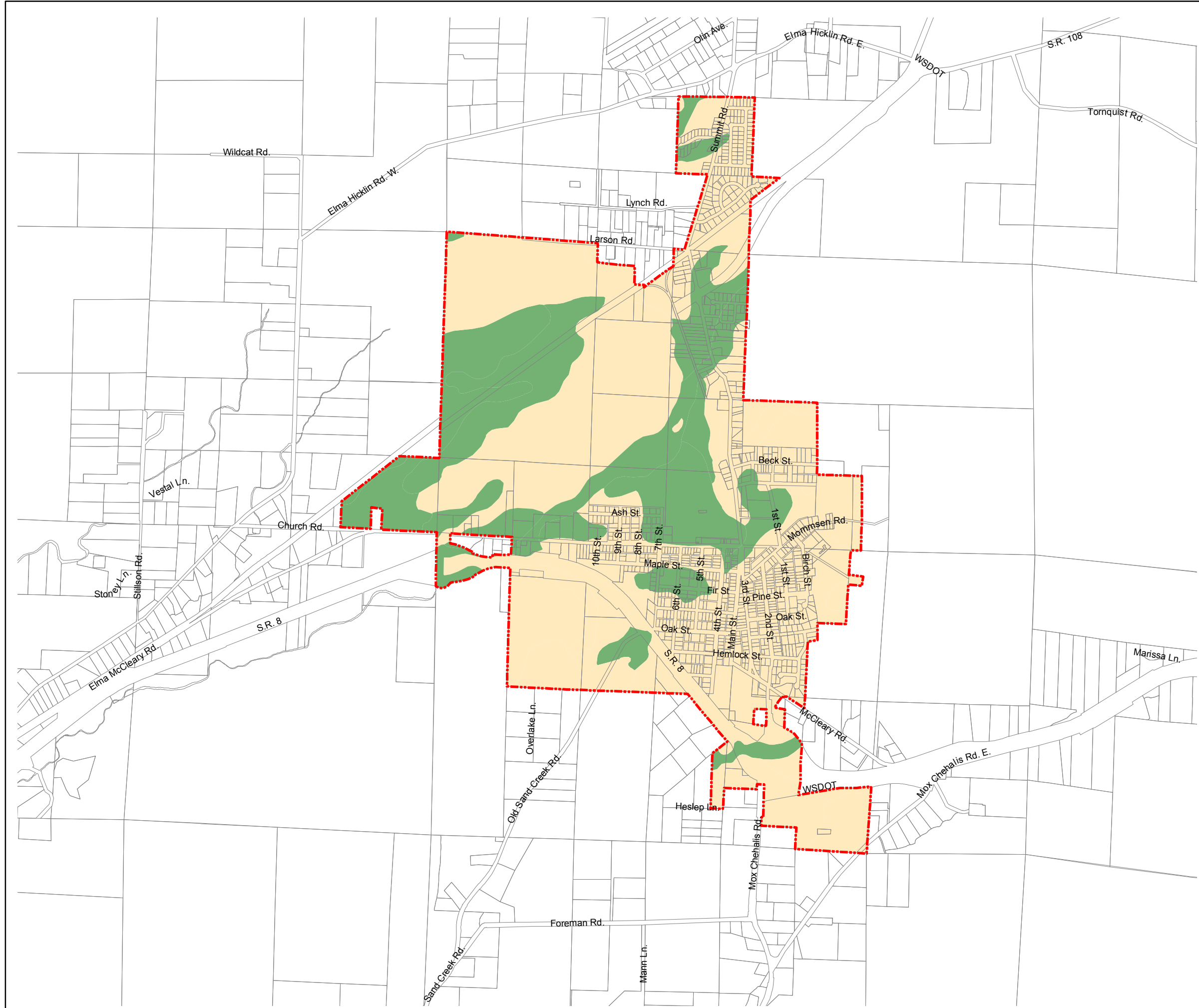
FIGURE 3-6

WETLANDS MAP



Gray & Osborne, Inc.

CONSULTING ENGINEERS



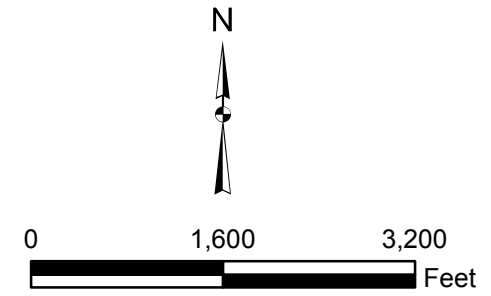
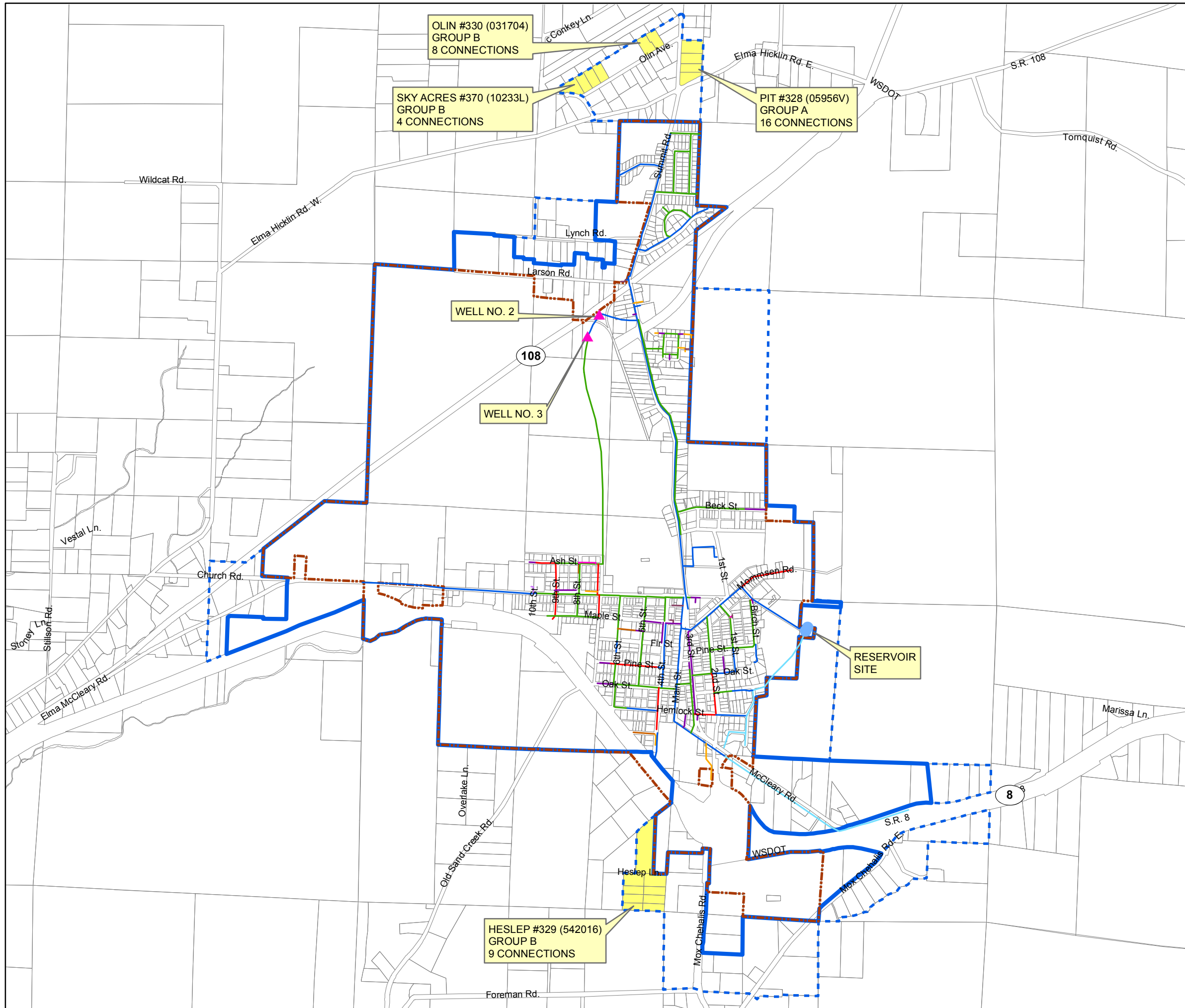
- LEGEND:**
- CITY LIMITS
 - SLOPE 8% OR GREATER
 - SLOPE LESS THAN 8%

SOURCE: NATIONAL WETLAND INVENTORY

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 3-7
 CRITICAL AREAS MAP



Gray & Osborne, Inc.
 CONSULTING ENGINEERS



Legend:

- ▲ EXISTING WELL
- EXISTING RESERVOIR
- 3/4" WATER LINE
- 1" WATER LINE
- 1 1/4" WATER LINE
- 1 1/2" WATER LINE
- 2" WATER LINE
- 3" WATER LINE
- 4" WATER LINE
- 6" WATER LINE
- 8" WATER LINE
- 10" WATER LINE
- ▭ EXISTING WATER SERVICE AREA
- ▭ FUTURE WATER SERVICE AREA AND RETAIL WATER SERVICE AREA
- ▭ CITY LIMITS

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 3-8
 WATER SYSTEM BASEMAP
 EXISTING AND FUTURE RETAIL
 WATER SERVICE AREA BOUNDARY



Gray & Osborne, Inc.
 CONSULTING ENGINEERS

TABLE 3-3 - (continued)

McCleary Water System Wells

	Well 2	Well 3
Volts	460/230v	460/230v
Model Number	9CLE Stage 7	9CHE Stage 6
Pump Serial Number	212271	212272
Pump Type	Turbine	Turbine
Flow Rate (gpm)	400	500
Pump Diameter (inches)	6.6875 inches	6.6875 inches
Meter	6-inch, 1,000 gpm	6-inch, 1,000 gpm

WATER RIGHTS

The City of McCleary has water rights for its two sources of supply; Well 2 and Well 3. In 2013, the City filed a “Showing of Compliance Declaration” to allow the Well 1 water rights to be used on Wells. 2 and 3. Table 3-4 includes the City’s existing water rights.

TABLE 3-4

Water Rights

Source	Water Right Number⁽¹⁾	Type	Instantaneous Withdrawal (gpm)	Annual Withdrawal (acre-ft/yr)	Primary or Supplemental
Well 1 ⁽²⁾	G2-*02136CWRIS	Municipal	200	320	Primary
Well 2	G2-*02598CWRIS	Municipal	400	640	Primary
Well 3	G2-*06087CWRIS	Municipal	500	673	Primary
Totals			1,100	673 ⁽³⁾	

- (1) Ecology has assigned CWRIS tracking numbers for older water rights that have different numbers assigned to the application, permit, and certificate:
 Water Right G2-*02136CWRIS includes Application No. 02136, Permit No. 01986, and Certificate No. 00956.
 Water Right G2-*02598CWRIS includes Application No. 02598, Permit No. 02448, and Certificate No. 01326.
 Water Right G2-*06087CWRIS includes Application No. 06087, Permit No. 05291, and Certificate No. 04371.
- (2) The City filed a “Showing of Compliance Declaration” with Ecology to allow these rights to be used by Well Nos. 2 and 3. This well was decommissioned in 2013.
- (3) Water Right G2-*06087CWRIS states that the total withdrawal under all existing water rights shall not exceed 673 acre-ft/yr.

TREATMENT

Prior to the treatment system upgrade, the City exceeded the secondary maximum contaminant level (MCL) for manganese (0.05 mg/L) for Wells 2 and 3 and consistently approached the MCL for iron (0.30 mg/L) for Well 3. In 2013, the City installed a pyrolusite catalytic oxidation/filtration treatment system for the removal of iron and manganese.

The treatment equipment is sized to treat the City's largest source of 500 gpm (Well 3). During higher demand situations, when both wells are required to meet system demand, the treatment plant treats only water from Well 3, and the water from Well 2 bypasses the treatment system and is blended into the filtered water. This arrangement maximizes the use of the treatment facilities and minimizes the amount of iron and manganese in the finished water, since Well 2 has both lower flow and lower levels of iron and manganese. The filtration equipment consists of four 48-inch diameter pressure vessels.

Treatment with permanganate is required because the source water includes active silica. Permanganate is added first to neutralize any active silica in the source water, and then sodium hypochlorite is injected into the raw water coming into the water treatment plant (WTP) to oxidize the iron and manganese. A continuous chlorine residual analyzer is installed downstream of the chlorine injection point to ensure adequate chlorine residual downstream of the filters. Chlorine is utilized both to oxidize iron and manganese in the pyrolusite treatment process and as a disinfection agent. The media is backwashed periodically (generally once per day, depending on water quality) to remove accumulated iron and manganese oxides.

STORAGE

There are two welded steel reservoirs in the system, a 500,000-gallon tank and a 150,000-gallon tank, which are located at the highest point in the system. A chain link fence encloses the two storage facilities. The 500,000-gallon reservoir is approximately 50 feet in diameter and 35 feet high. The 150,000-gallon reservoir is 30 feet in diameter and 30 feet high. The reservoirs were built in the 1970s and 1950s, respectively and were last recoated in 2010/2011.

Two transducers in the 500,000-gallon reservoir provides online level reporting. Reservoir level is communicated via radio to a Human Machine Interface (HMI) located at the Water Treatment Plant operations building.

The wells pump into the distribution system, and the hydraulic grade line (HGL) is set by the level of the reservoirs.

Table 3-5 includes a summary of the City's storage facilities.

TABLE 3-5

Storage Facilities

Name	Gross Capacity (gallons)/ Material	Base Elevation (feet MSL)⁽¹⁾	Overflow Elevation (feet MSL)⁽¹⁾	Year Built	Height (feet)	Diameter (feet)
500,000-gallon Reservoir	514,079 Welded Steel	437	472	1970s	35	50
150,000-gallon Reservoir	158,630 Welded Steel	442	472	1950s	30	30

(1) Feet MSL refers to Feet above Mean Sea Level.

BOOSTER PUMP STATIONS

The City has no booster pump stations.

TRANSMISSION AND DISTRIBUTION SYSTEM

The McCleary Water System is comprised of mostly asbestos cement (AC) pipe with smaller quantities of polyvinyl chloride (PVC), ductile iron (DI), cast iron, and steel pipe. Table 3-6 shows approximate quantities of pipes in the system and their diameters.

TABLE 3-6

Pipe Material, Size, and Length

Pipe Size	Pipe Material (feet)				Total
	PVC/PE	AC	DI/Cast	Steel	
10-inch	6,590	-	-	-	6,590
8-inch	8,725	6,640	4,620	-	19,985
6-inch	3,470	18,240	3,960	-	25,670
4-inch	100	7,660	390	-	8,150
2-inch	770	-	-	3,920	4,690
Total	19,655	32,540	8,970	3,920	65,085

TELEMETRY AND CONTROL

The City installed reservoir level transducers in 2014. A radio telemetry system relays water level in the reservoirs to the HMI at the Water Treatment Plant operations building.

INTERTIES

The City of McCleary has no interties with other water systems.

PLANNING PERIOD

In order to provide wastewater services for future growth, the wastewater system is in need of continuous evaluation and improvement. A planning period for the evaluation of the wastewater utility should be long enough to be useful for an extended period of time, but not so long as to be impractical. The planning period for this plan is from 2022 through 2036.

EXISTING LAND USE AND ZONING

Figure 3-9 shows the existing land use within the City of McCleary. The majority of the sewer system is zoned residential; however, the City also has a significant portion of land zoned industrial. The major industrial property owner is Simpson. In 2013, a large tract of industrial land was sold to an entity that produces steel pipe. Figure 3-10 shows the City of McCleary Zoning Map (2017) which provides specific standards for development.

This section describes each of the zoning designations within the City of McCleary and includes both a statement of purpose and a description of characteristics typifying lands under each designation, as described in the City of McCleary Municipal Code, Title 17.

Single-Family Residential (R-1)

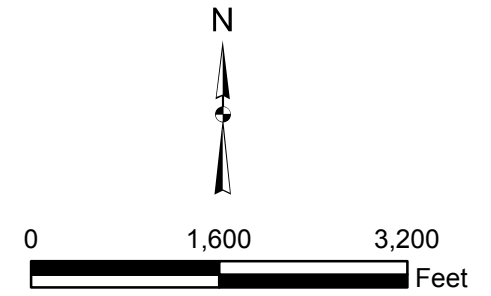
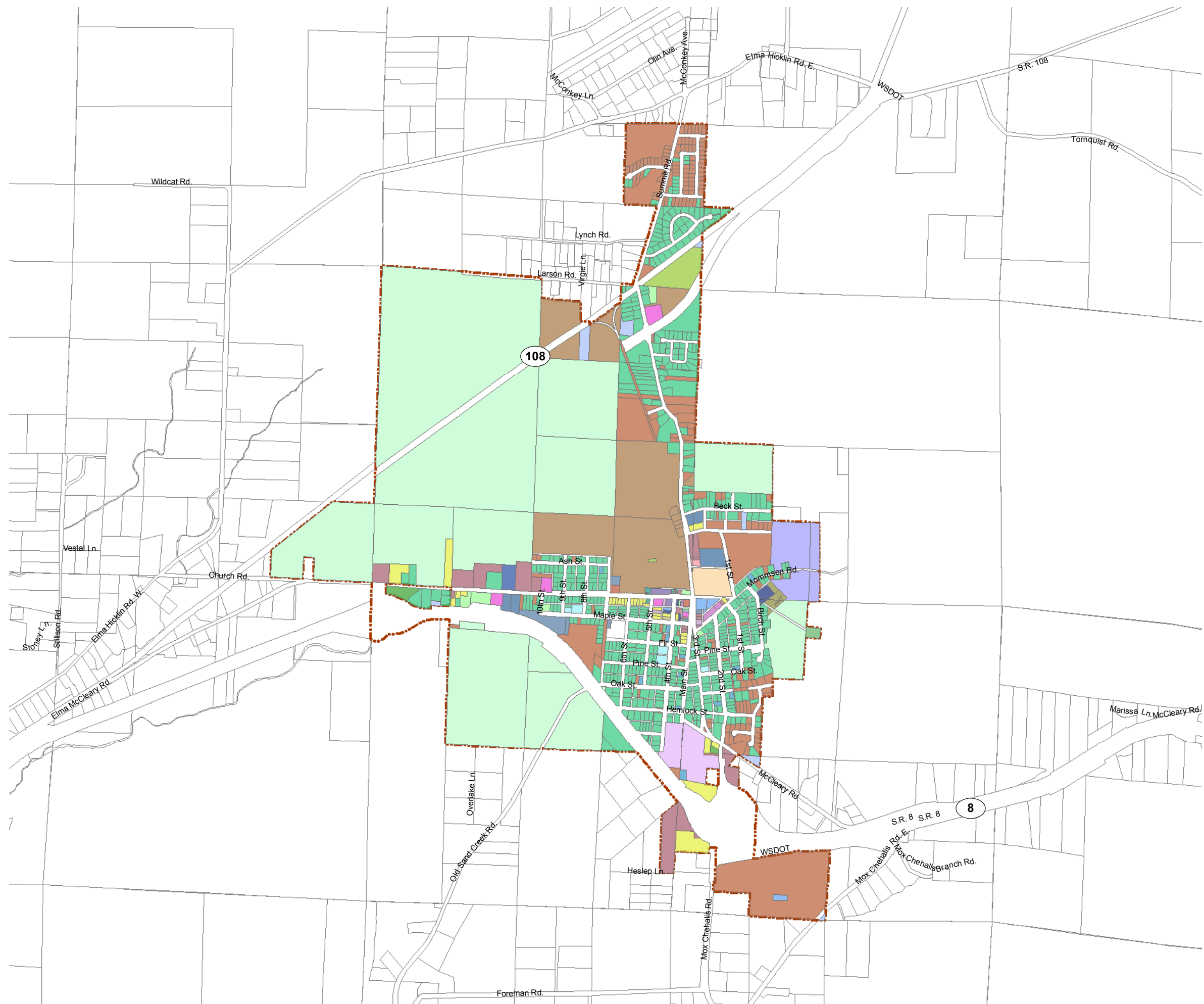
The single-family residential (R-1) district provides for uses, structures, and activities compatible with neighborhoods consisting predominately of single-family dwelling units and designated manufactured homes.

Multi-Family Residential (R-2)

The multi-family residential (R-2) district provides for uses, structures, and activities compatible with neighborhoods with a mix of single-family dwelling units, designated manufactured homes, and multi-family dwelling units.

Manufactured Home Park (R-3)

The manufactured home park (R-3) district provides for uses, structures, and activities compatible with neighborhoods with a mix of single- and multi-family dwelling units, designated manufactured homes, and manufactured homes in manufactured home parks.



Legend:

LANDUSE DESIGNATIONS:

- 11-Household, Single Family Units
- 12-Household, 2-4 Units
- 13-Household, Multi-Units (5 or more)
- 15-Mobile Home Parks or Courts
- 18-All Other Residential Not Elsewhere Coded
- 24-Lumber and Wood Products (Except Furniture)
- 36-Industrial Land
- 41-Railroad/Transit Transportation
- 46-Automobile Parking - Parking Lots
- 48-Utilities
- 49-Other Transportation, Communication, & Utilities
- 50-Commercial Land
- 53-Retail Trade - General Merchandise
- 54-Retail Trade - Food
- 55-Retail Trade-Auto, Marine Craft, Aircraft, & Assc.-Gas Stations
- 56-Retail Trade - Apparel & Accessories
- 58-Retail Trade - Eating and Drinking - Restaurants
- 59-Other Retail Trade
- 60-Commercial Land w/ Single Family Residence
- 61-Finance, Insurance, & Real Estate Services
- 62-Personal Services
- 64-Repair Services
- 65-Professional Services
- 67-Governmental Services
- 68-Educational Services
- 69-Miscellaneous Services - Churches
- 72-Public Assembly
- 76-Parks
- 79-Other Cultural, Entertainment, & Recreational
- 88-Designated Forest Land RCW 84.33
- 91-Undeveloped Land
- 95-Timberland Classified Under RCW 84.34
- CITY LIMITS

CITY OF McCLEARY

GENERAL SEWER PLAN

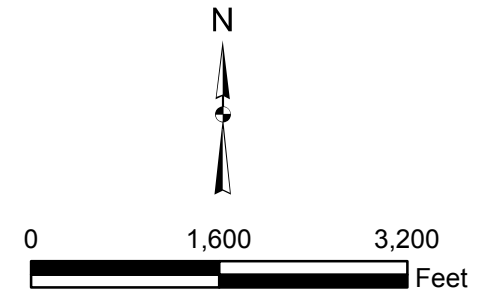
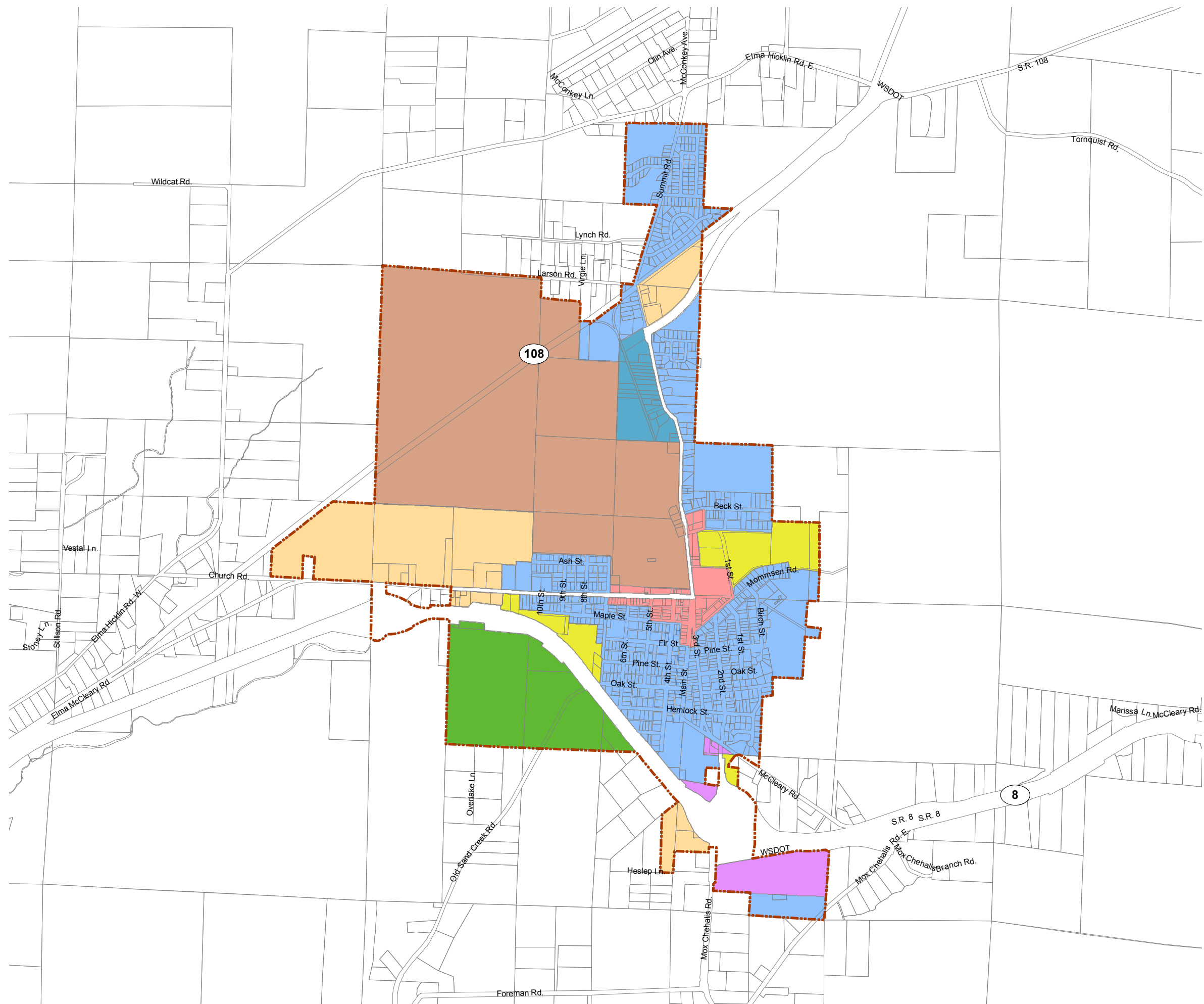
FIGURE 3-9

EXISTING LAND USE DESIGNATIONS



Gray & Osborne, Inc.

CONSULTING ENGINEERS



Legend:

ZONING:

- R1 - Single Family Residential
- R2 - Multiple Family Residential
- R3 - Manufactured Home Park
- C1 - Downtown District
- C2 - General Commercial District
- C3 - Highway Commercial
- I - Industrial District
- F/OS - Forest Open Space District

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 3-10
 ZONING MAP (2017)



Gray & Osborne, Inc.
 CONSULTING ENGINEERS

Downtown Commercial (C-1)

The downtown (C-1) district provides for a wide range of small to medium commercial uses and professional offices concentrated in the historic downtown area of the City. Uses in this district serve the needs of the immediate area as well as tourists to the community. The C-1 district is a compact, intensive activity center that emphasizes pedestrian access to and between businesses.

General Commercial (C-2)

The general commercial (C-2) district provides for large retail, personal and professional offices, storage, recreational vehicle parks, and light manufacturing activities outside the downtown (C-1) district that depend on arterial or highway traffic, large lot sizes, or uses not appropriate for the C-1 district.

Highway Commercial (C-3)

The highway commercial (C-3) district provides for highway-oriented or vehicle-oriented uses that can benefit from highway exposure. Residential uses are not permitted.

Industrial (I)

The industrial (I) district provides space for manufacturing, storage, agriculture, forestry, wholesale sales, outdoor storage, transshipment, and other intensive uses that meet environmental regulations but require separation from residential and commercial uses in the City.

Forest/Open Space (F/OS)

The forest and open space (F/OS) district protects the City's natural resources and open spaces. Land uses in this zone include commercial forest lands, non-commercial forests, critical areas with restricted development potential, undeveloped parkland, and areas protected by open space designations or long-term conservation easements.

INDUSTRIES IN THE SEWER SERVICE AREA

The only industrial facility in the City of McCleary that discharges to the City sewer system is the Simpson Door Factory. Simpson is currently (as of July 2016) being billed for approximately 27 ERUs by the City of McCleary. (The standard residential sewer rate is \$82.30 per month, and Simpson is billed \$2,217.30 per month.) An equivalent residential unit (ERU) is a baseline wastewater generator that represents the average single-family residential household.

The Simpson facility is operating under Ecology NPDES Permit No. ST 6178, the conditions of which govern its discharges to the City of McCleary sewer collection system from Outfall 001 and Outfall 004. Discharges to Outfall 001 include slicing cutting, drying conditioning, equipment wash-water, and discharges to Outfall 004 previously included boiler blowdown. As of January 2012, according to the company's discharge monitoring reports (e.g., from July 2015) there is no longer a discharge from Outfall 004.

A copy of the NPDES Permit No. ST 6178 and accompanying fact sheet is provided in Appendix C. The amount of flow which Simpson may discharge from Outfall 001 to the sewer system under the conditions of this permit is 15,000 gal/day. The permit also sets Outfall 001 limits on BOD₅ of 0.0014 lbs/lbs of production, mandates a maximum effluent temperature of 65 degrees Celsius, and states that Effluent pH must be between 6.0 and 9.0 (inclusive). The issue of potential impacts to the City WWTP from Simpson operations has already been addressed through this NPDES permit.

Review of Simpson DMRs provided by the City covering the period May 2015 through August 2016 indicates the facility is generally operating within the limitations of its permit. The exception was June 2016, when an employee accidentally left a water tap running at the slicer equipment. This resulted in an exceedance of the permitted daily flow, but the company states that safeguards have been implemented to prevent a recurrence of this incident. Currently, discharges are generally significantly less than the permitted daily amount and typically occur only 1 or 2 days in a given month.

For the purposes of assessing peak flows in the City's collection system, the Simpson DMR data confirms the reasonableness of allocating 27 ERUs to the Simpson Door Factory.

PROJECTED FUTURE POPULATION AND SEWER DEMANDS

HISTORIC POPULATION

Population growth in McCleary averaged about 0.5 percent per year between 1990 and 2016, according to data from the Washington State Office of Financial Management (OFM). Table 3-7 provides a history of population for McCleary between 1990 and 2016.

TABLE 3-7

Historical Population 1990 to 2016

Year	McCleary Population	Growth	Year	McCleary Population	Growth
1990	1,473		2004	1,470	0.3%
1991	1,471	-0.1%	2005	1,492	1.5%
1992	1,472	0.1%	2006	1,569	5.2%
1993	1,472	0.0%	2007	1,607	2.4%
1994	1,472	0.0%	2008	1,619	0.7%
1995	1,473	0.1%	2009	1,635	1.0%
1996	1,471	-0.1%	2010	1,653	1.1%
1997	1,471	0.0%	2011	1,655	0.1%
1998	1,472	0.1%	2012	1,655	0.0%
1999	1,470	-0.1%	2013	1,655	0.0%
2000	1,484	1.0%	2014	1,660	0.3%
2001	1,470	-0.9%	2015	1,680	1.2%
2002	1,465	-0.3%	2016	1,685	0.3%
2003	1,465	0.0%			
AVERAGE ANNUAL POPULATION GROWTH					0.5%

Source: Washington State Office of Financial Management (OFM). Population estimated as of April 1 of each year.

PROJECTED POPULATION

Based on the OFM population estimate of 1,685 as of April 1, 2016, and the estimated service area population annual growth rate of 0.5 percent, service area population is estimated to grow as shown in Table 3-8.

TABLE 3-8

Projected Population 2016 to 2036

Year	McCleary Population	Year	McCleary Population
2016	1,685	2027	1,785
2017	1,694	2028	1,794
2018	1,703	2029	1,804
2019	1,712	2030	1,813
2020	1,721	2031	1,823
2021	1,730	2032	1,832
2022	1,739	2033	1,842
2023	1,748	2034	1,852
2024	1,757	2035	1,861
2025	1,766	2036	1,871
2026	1,776		

SEWER CONNECTIONS AND ERUS

Table 3-9 provides an estimate of the average number of sewer connections to the City of McCleary in 2016, based on billing data received from the City. An equivalent residential unit (ERU) is a baseline wastewater generator that represents the average single-family residential household.

TABLE 3-9

Sewer Service Connections and ERUs by Customer Class as of July 2016

Customer Class	2016 Connections	ERU/Connection	2016 ERUs
Residential	653	1	653
Commercial	43	3.5	151
Industrial (Simpson Door Factory)	1	27	27
Total	697	N/A	831

As of the most recent City utility billing records available (July 2016), there were 653 total residential sewer connections, 43 commercial sewer connections, and 1 industrial sewer connection (the Simpson Door Factory) in the City of McCleary. It was assumed that each residential connection was 1 ERU, each commercial connection was 3.5 ERU, and the industrial connection was 27 ERU. In the *Sept 2001 Wastewater Facility Plan* by Parametrix, Inc., each commercial connection was allocated 3.5 ERU, and recent water

use data was reviewed in order to confirm that this assumption still holds true today. As discussed above, the Simpson Door Plant is currently being billed for approximately 27 ERU by the City of McCleary, and review of recent Discharge Monitoring Reports (DMRs) for Simpson's NPDES Permit (Permit No. ST 6178) indicated this is a fair assumption. Thus, the total number of ERUs connected to the McCleary sewer system was determined to be 831 (equal to $1 \times 653 + 3.5 \times 43 + 27 \times 1$).

Applying the assumed 0.5 percent annual growth rate to the 2016 total of 831 ERUs results in a total of 87 new ERUs over the 20-year planning period.

The number of new ERUs is calculated as follows:

$$831 \text{ ERUs} \times (1.005)^{20} - 831 \text{ ERUs} = 87 \text{ new ERUs by 2036.}$$

Growth within the sewer collection system associated with these 87 new ERUs is discussed further in chapter 6.

CHAPTER 4

EXISTING WASTEWATER COLLECTION SYSTEM

INTRODUCTION

This chapter describes existing facilities within the City of McCleary wastewater collection system. These facilities include gravity sewers and pump stations.

WASTEWATER COLLECTION SYSTEM

PUMP STATIONS

The City of McCleary operates six pump stations, all of which serve relatively small areas located at the outer edges of the collection system. Pump Stations 1 and 2 serve the Summit Park neighborhood, which is located immediately southeast of the intersection of State Route 108 and Summit Road. Pump Station 3 serves a 16-unit apartment building located on West Simpson Avenue near the west end of the collection system and is located immediately downstream of Pump Station 4. Pump Station 4 conveys a small amount of commercial and residential flow from the west end of the collection system. Pump Station 5 serves the Cedar Heights neighborhood, which is located in the southeast corner of the City. Pump Station 6 serves the Summit Place II neighborhood, which is located near the northern boundary of the City.

Station locations and force main routes are shown on Figure 4-1. Basic information about all stations is summarized in Table 4-1. All are duplex stations.

TABLE 4-1

Lift Stations and Force Mains

PS No.	Pump Station	Location ⁽¹⁾	Basin No.	Qty. of Pumps	Pump Mfr.	Pump Motor Size (hp)	Total Station Capacity (gpm)	TDH (ft)	Force Main Size (In.)	Approx. Year Built or Renovated
1	Wildcat	135 Wildcat Drive	1	2	Flygt	3.0	300	15	4 ⁽²⁾	2016
2	Pump Station No. 2	160 Wildcat Drive	1	TBD ⁽⁴⁾	TBD ⁽⁴⁾	TBD ⁽⁴⁾	TBD ⁽⁴⁾	TBD ⁽⁴⁾	TBD ⁽⁴⁾	Unknown
3	Evergreen Apartments	980 W Simpson Avenue	3	2	ABS	3.75	240	21	3	2002
4	Simpson	1277 W Simpson Avenue	10	2	ABS	2.4	104	23.1	4	2005
5	Cedar Heights	S 2 nd Street and William McCleary Road	7	2	Barnes	7.5	690 ⁽³⁾	15	4	2007
6	Summit Pl II	Summit Road and W Camas Court	9	2	Barnes	3.0	225	21	6	2007

- (1) McCleary pump stations have not been assigned addresses. Locations given are approximate.
- (2) The Wildcat Pump Station functions as a lift station (i.e. it has a short force main that pumps to an adjacent manhole). The discharge piping in this station is 4".
- (3) Limited information was available on the capacity of the Cedar Heights pump station. A drawdown test should be performed once this station approaches continuous runtime.
- (4) This pump station serves two homes. Pump information should be confirmed at next maintenance interval.



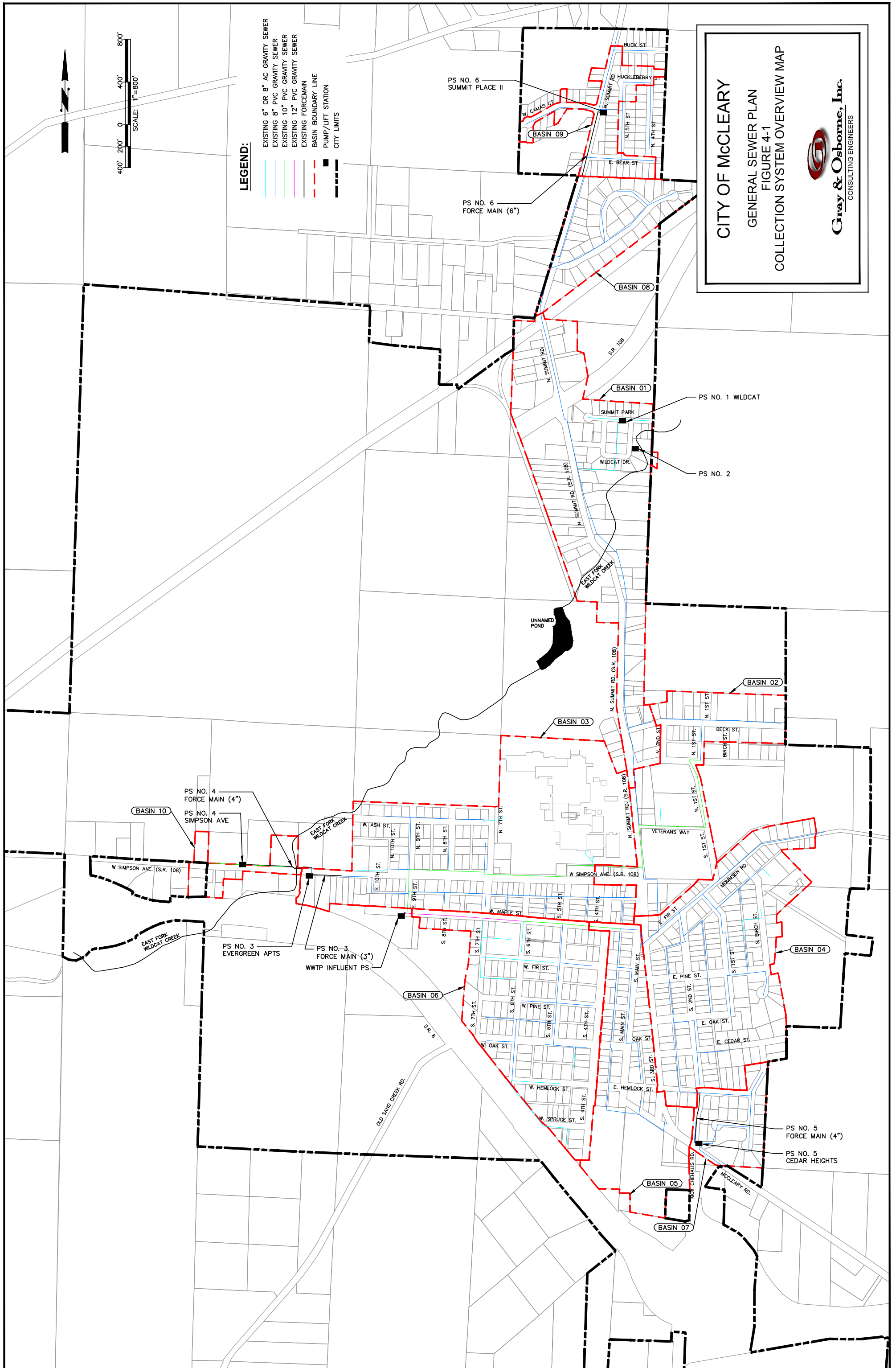
LEGEND:

- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- BASIN BOUNDARY LINE
- PUMP/LIFT STATION
- CITY LIMITS

CITY OF MCCLEARY
 GENERAL SEWER PLAN
 FIGURE 4-1
 COLLECTION SYSTEM OVERVIEW MAP



Gray & Osborne, Inc.
CONSULTING ENGINEERS



BASIN 10
 PS NO. 4
 FORCE MAIN (4")
 PS NO. 4
 SIMPSON AVE

PS NO. 3
 EVERGREEN APTS
 PS NO.-3
 FORCE MAIN (3")
 WWTP INFLUENT PS

PS NO. 6
 SUMMIT PLACE II

PS NO. 6
 FORCE MAIN (6")

PS NO. 1
 WILDCAT

PS NO. 2

PS NO. 5
 FORCE MAIN (4")

PS NO. 5
 CEDAR HEIGHTS

COLLECTION SYSTEM

Gravity sewer lines in the City of McCleary consist primarily of 8" PVC pipe installed as part of a major 1979 project which replaced about 90 percent of the collection system, or approximately 48,000 LF of mainline pipe. This project also involved the installation of some 10" and 12" PVC gravity sewer pipe, which was primarily installed near the WWTP. Most of the side sewers in the town were replaced and pressure-tested as part of this project (*Sept 2001 Wastewater Facility Plan, Parametrix Inc.*). The portions of the collection system not replaced as part of this project consist of older 6" and 8" AC pipe.

Since the 1979 project, additions to the collection system have consisted primarily of the addition of 8" PVC sewer pipe. The Summit PI I and Summit PI II developments at the north end of the City added a significant amount of pipe to the City's system, as did the Cedar Heights development in the southeast corner of the City. Other than flows to the City's six pump stations near the edges of the City, all sewage flows drain to the City's WWTP by gravity.

A summary of the various pipe types and diameters within the City's collection system is provided in Table 4-2. This summary is an estimate based on review of plan and as-built drawings, information provided by the City, and information shown in Figure 1-5 of the *September 2001 Wastewater Facility Plan* prepared by Parametrix, Inc.

TABLE 4-2

Sewer Pipe Summary, McCleary Collection System

Pipe Diameter and Type	Length (feet)
3-inch Force Main	275
4-inch Force Main	1,090
6-inch Force Main	565
6-inch/8-inch AC Gravity	6,486
8-inch PVC Gravity	41,158
10-inch PVC Gravity	6,175
12-inch PVC Gravity	1,117
Total	56,866

The McCleary sanitary sewer system contains a total of approximately 219 manholes.

COLLECTION AREAS

For the purposes of this plan, the McCleary collection system is divided into a total of ten collection areas, or drainage basins, totaling approximately 385 acres. These basins are shown in Figure 4-2. Basins 1 through 6 were drawn approximately as shown in

Figure 4.4 of the *July 1998 Sanitary Sewer Inflow and Infiltration Study* prepared by Parametrix, Inc., with the exception of Basin 3, which was revised to include the land area occupied by the Simpson Door Plant. Basins 7 through 10 were added in order to accurately reflect the current extent of the City's collection system.

The following section describes the boundaries and land use designations of each basin as well as information about the sewer lines within each basin.

Basin 1

Basin 1 consists of an area of about 66 acres of primarily single-family residential development along Summit Rd north of downtown McCleary. The sewer mains in this basin consist of 8" PVC pipe along Summit Road and 6" or 8" AC pipe in the Summit Park neighborhood. Basins 9 and 8 drain to Basin 1. Basin 1 drains to Basin 2.

Basin 2

Basin 2 is located south of Basin 1 and consists of about 36 acres. This basin consists primarily of single-family residential development, but also includes an apartment complex and a city park. The sewer mains in this basin consist of 8" and 10" PVC pipe. Basins 9, 8 and 1 drain to Basin 2. Basin 2 drains to Basin 3.

Basin 3

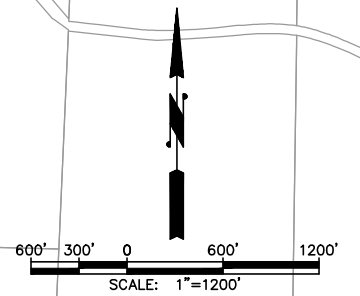
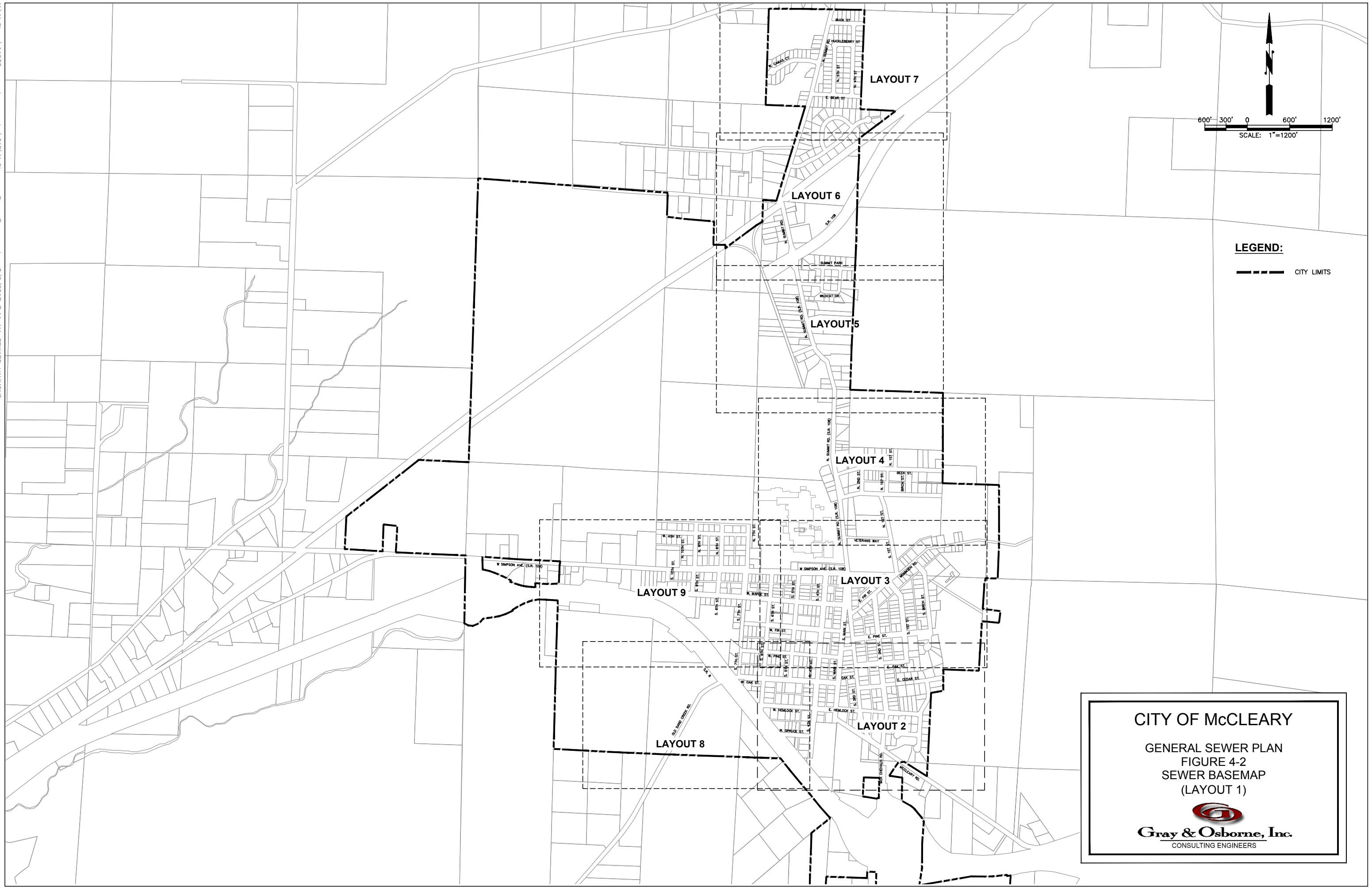
Basin 3 is located west of Basin 2 and consists of about 81 acres. This basin includes downtown McCleary and consists of a mix of residential and commercial development, as well as the City's sole industrial facility (the Simpson Door Plant). The sewer mains in this basin consist of 8", 10", and 12" PVC pipe. Basins 9, 8, 1, and 2 drain to Basin 3 from the north, and Basin 10 drains to Basin 3 from the west. Pump Station 3 is located near the western edge of this basin and pumps flow from Basin 10 and from a 16-unit apartment complex. Basin 3 drains to the WWTP.

Basin 4

Basin 4 is located east of downtown McCleary and Basin 3. It is approximately 62 acres. This basin consists of primarily single-family residential development, but also includes the Mark E Reed Memorial Hospital. The sewer mains in this basin consist of 8" PVC pipe. Basin 7 drains to Basin 4. Basin 4 drains to Basin 5.

Basin 5

Basin 5 is located west of Basin 4 and consists of about 37 acres. This basin consists of primarily single-family residential development and includes the McCleary School. The



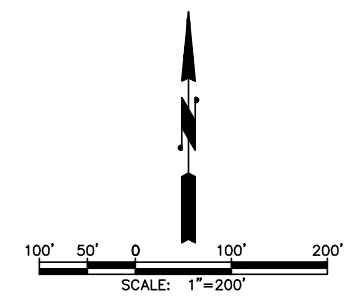
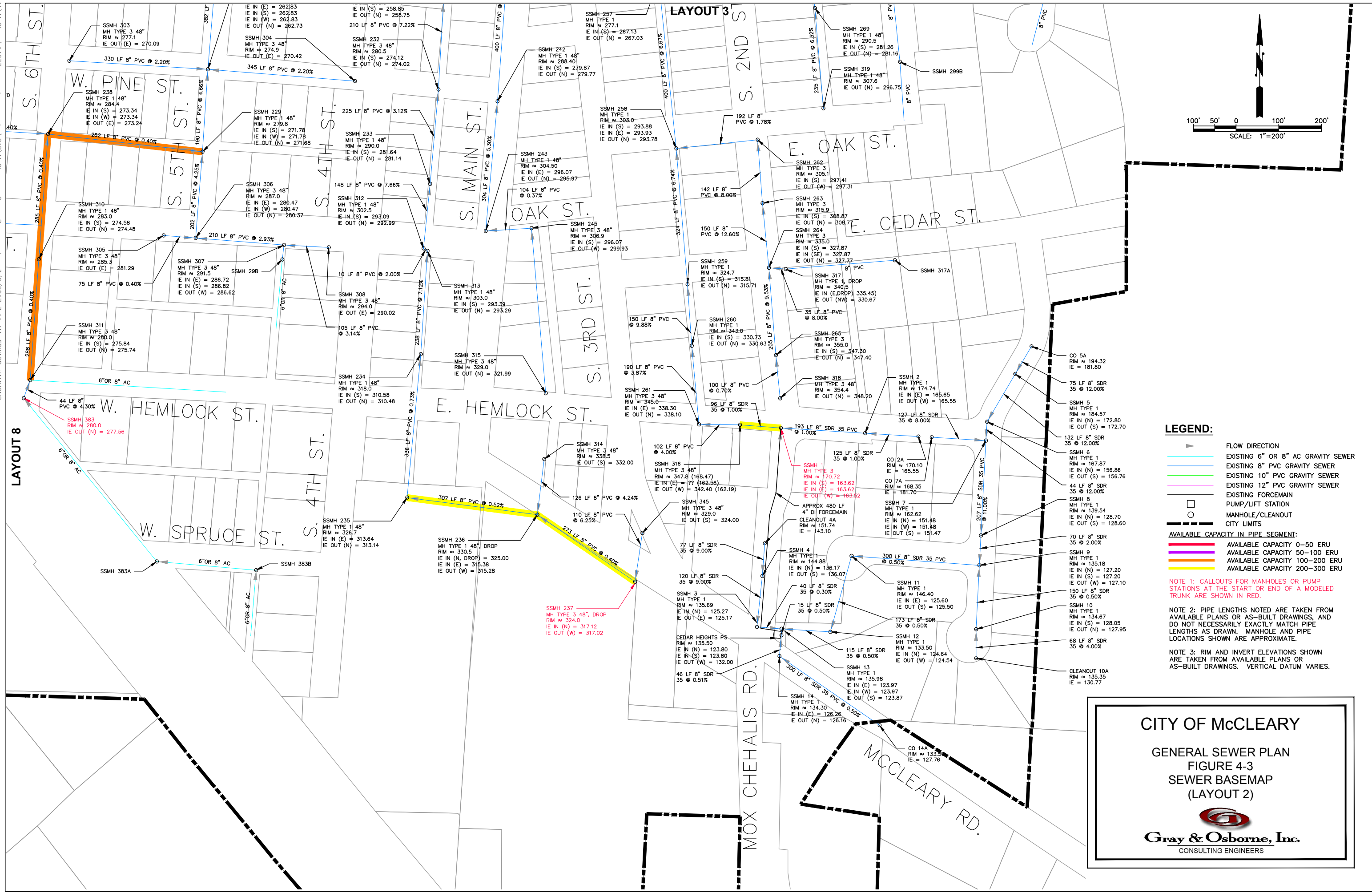
LEGEND:
 - - - - - CITY LIMITS

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 4-2
 SEWER BASEMAP
 (LAYOUT 1)



Gray & Osborne, Inc.
 CONSULTING ENGINEERS

M:\McCleary\14233 general sewer plan CAD\McCleary - Sewer BaseMap.dwg, 3/2/2017 7:44 AM, EDWARD HAMMOND



LEGEND:

- FLOW DIRECTION
- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- PUMP/LIFT STATION
- MANHOLE/CLEANOUT
- CITY LIMITS

AVAILABLE CAPACITY IN PIPE SEGMENT:

- AVAILABLE CAPACITY 0-50 ERU
- AVAILABLE CAPACITY 50-100 ERU
- AVAILABLE CAPACITY 100-200 ERU
- AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

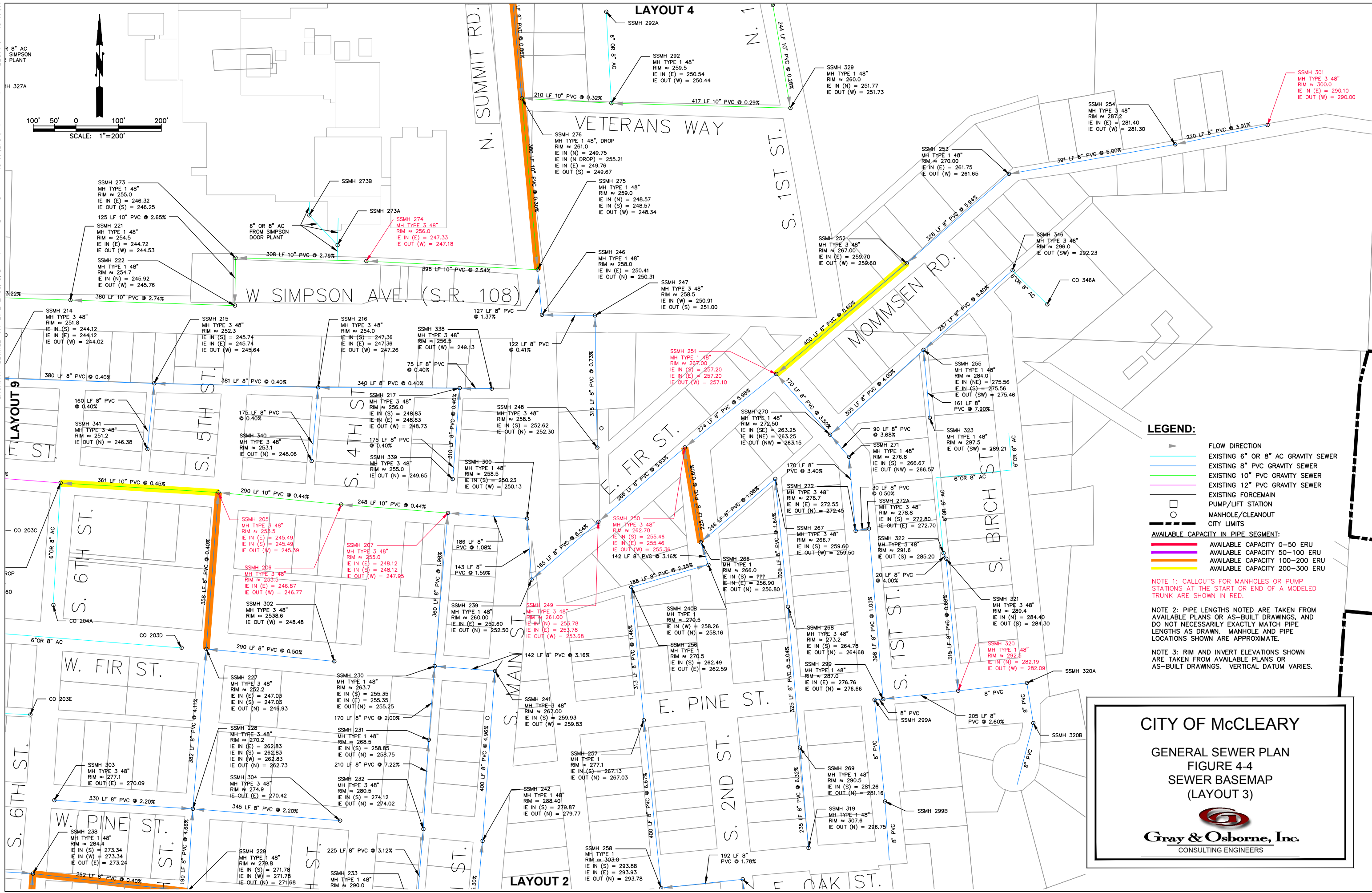
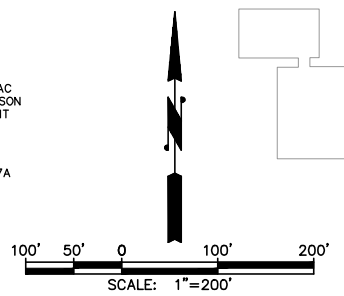
NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-3
SEWER BASEMAP
(LAYOUT 2)

Gray & Osborne, Inc.
CONSULTING ENGINEERS

M:\McCleary\14233 general sewer plan\CAD\McCleary - Sewer Basemap.dwg, 3/2/2017 7:45 AM, EDWARD HAMMOND



LEGEND:

- FLOW DIRECTION
- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- PUMP/LIFT STATION
- MANHOLE/CLEANOUT
- CITY LIMITS

AVAILABLE CAPACITY IN PIPE SEGMENT:

- AVAILABLE CAPACITY 0-50 ERU
- AVAILABLE CAPACITY 50-100 ERU
- AVAILABLE CAPACITY 100-200 ERU
- AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CITY OF McCLEARY

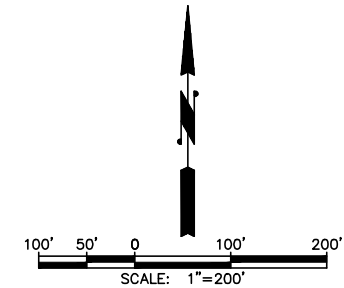
GENERAL SEWER PLAN
FIGURE 4-4
SEWER BASEMAP
(LAYOUT 3)

Gray & Osborne, Inc.
CONSULTING ENGINEERS

M:\McCleary\14233 general sewer plan\CAD\McCleary - Sewer BaseMap.dwg, 3/2/2017 7:45 AM, EDWARD HAMMOND

UNNAMED POND

LAYOUT 5



LEGEND:

- FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

N. SUMMIT RD. (S.R. 108)

N. 1ST ST.

N. 2ND ST.

N. 1ST ST.

BECK ST.

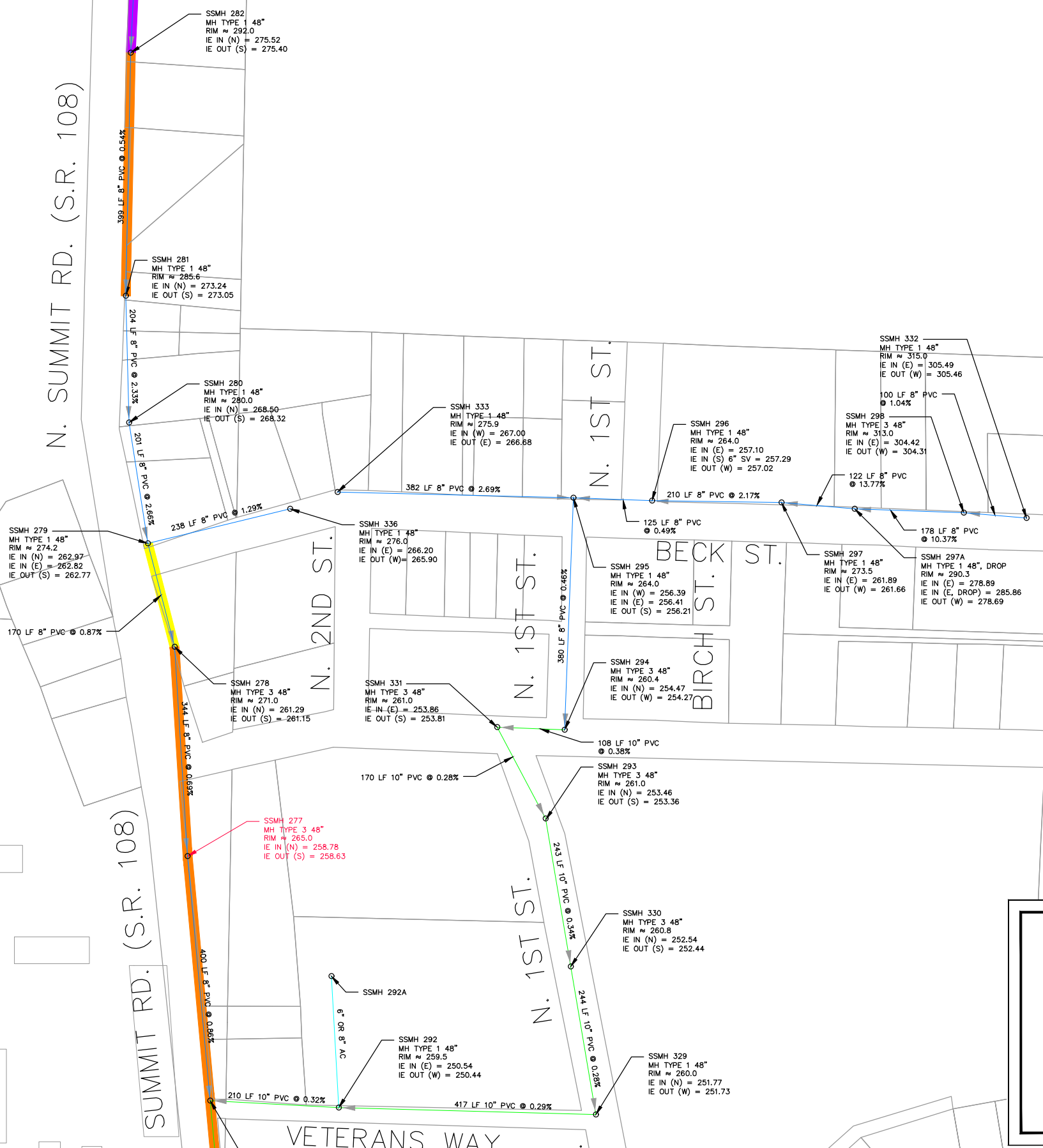
BIRCH ST.

N. 1ST ST.

N. SUMMIT RD. (S.R. 108)

VETERANS WAY

LAYOUT 3



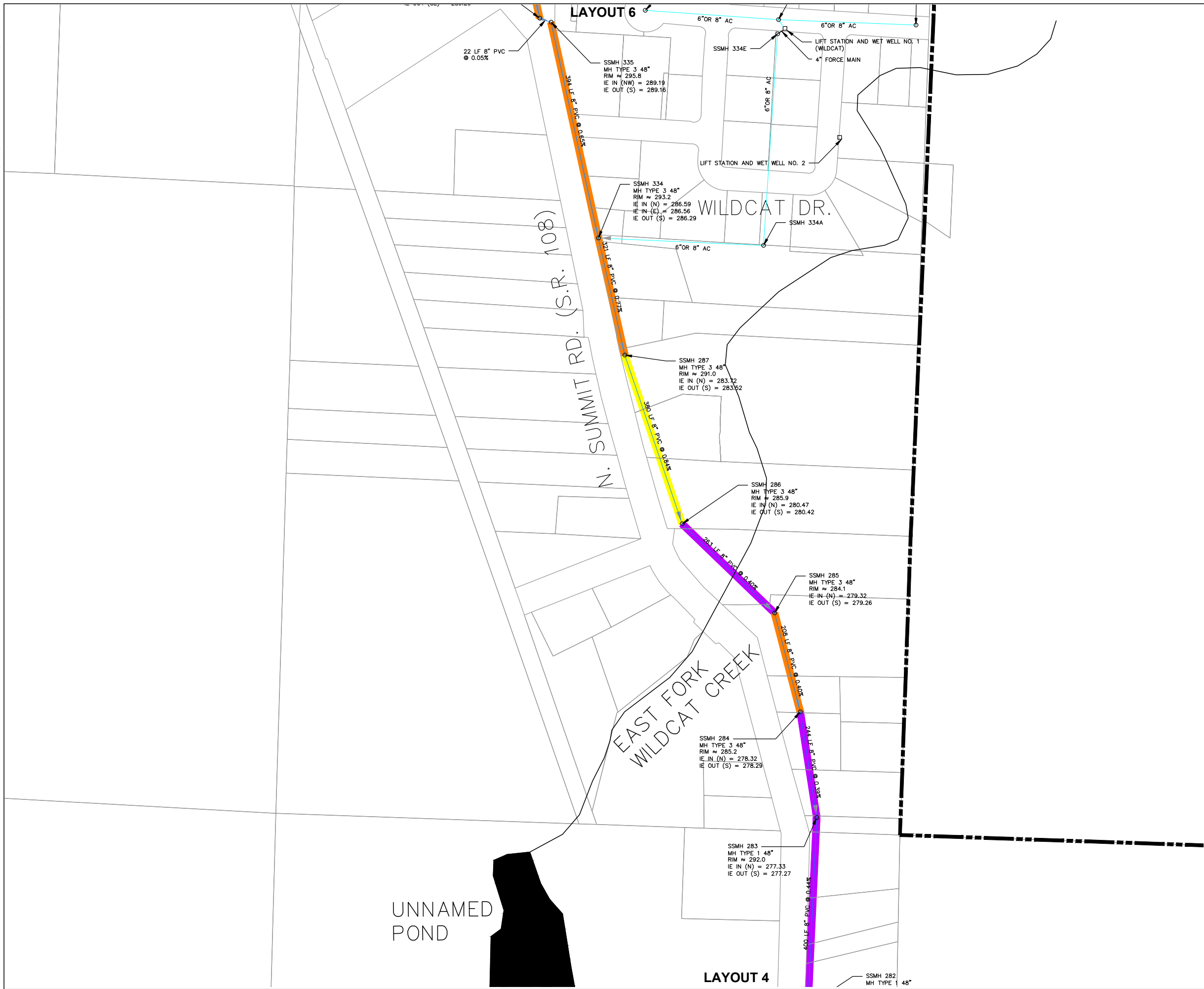
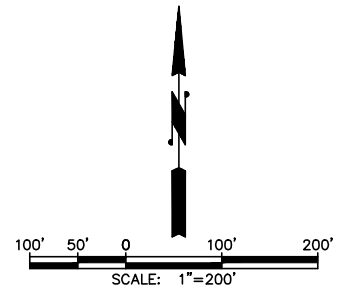
CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-5
SEWER BASEMAP
(LAYOUT 4)



Gray & Osborne, Inc.
CONSULTING ENGINEERS

OR 8" AC FROM SIMPSON DOR PLANT
SSMH 327A



LEGEND:

- ▶ FLOW DIRECTION
- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- PUMP/LIFT STATION
- MANHOLE/CLEANOUT
- CITY LIMITS

- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-6
SEWER BASEMAP
(LAYOUT 5)

Gray & Osborne, Inc.
CONSULTING ENGINEERS

LAYOUT 4

LAYOUT 6

UNNAMED POND

EAST FORK WILDCAT CREEK

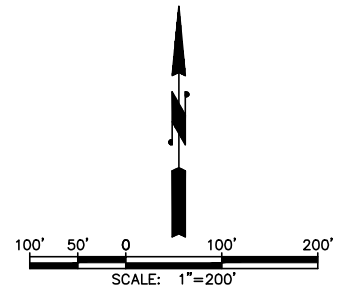
N. SUMMIT RD. (S.R. 108)

WILDCAT DR.

M:\McCleary\14233 general sewer plan\CAD\McCleary - Sewer Basemap.dwg, 3/2/2017 7:46 AM, EDWARD HAMMOND

LAYOUT 7

LAYOUT 5



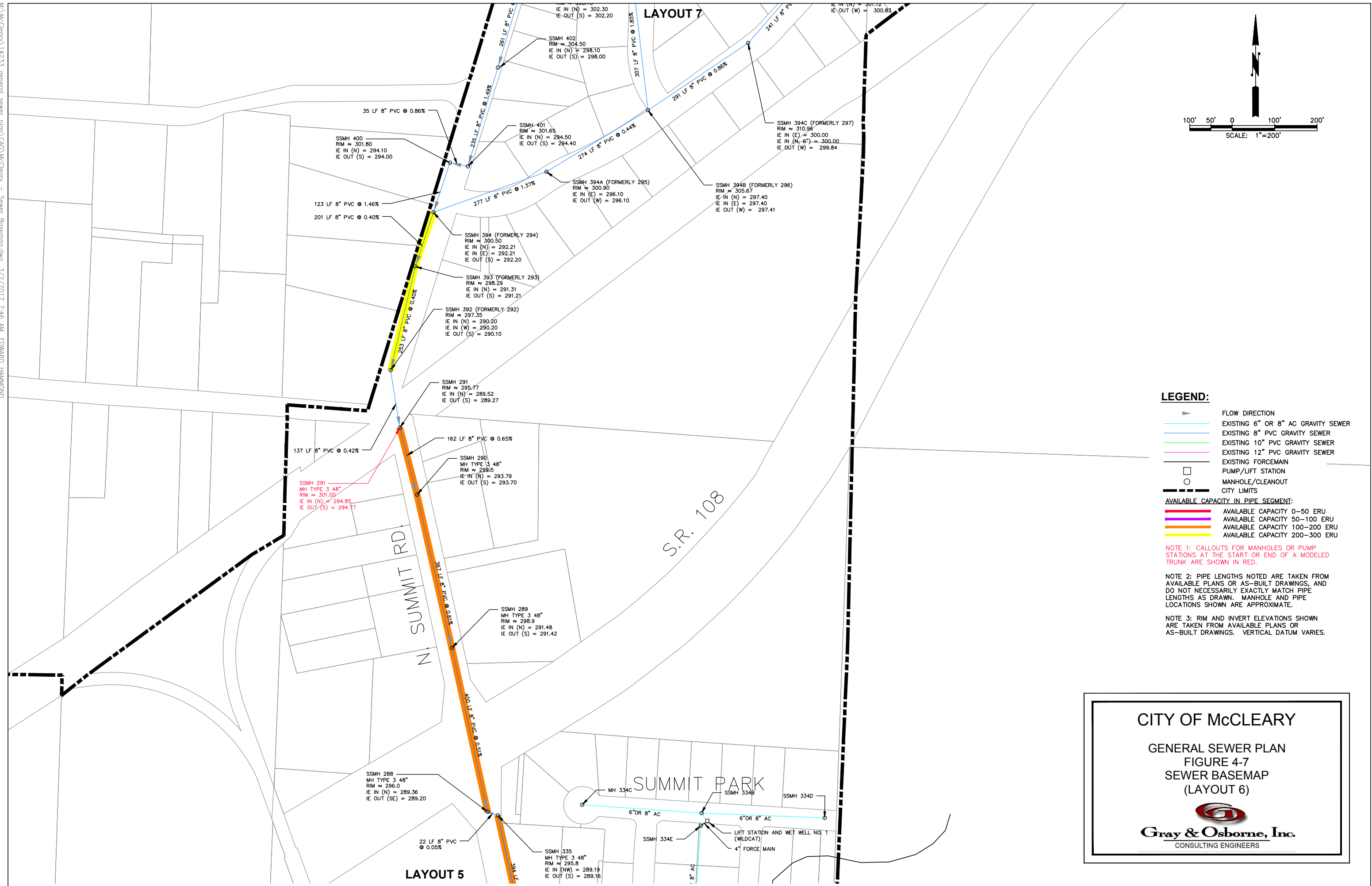
LEGEND:

- ▶ FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

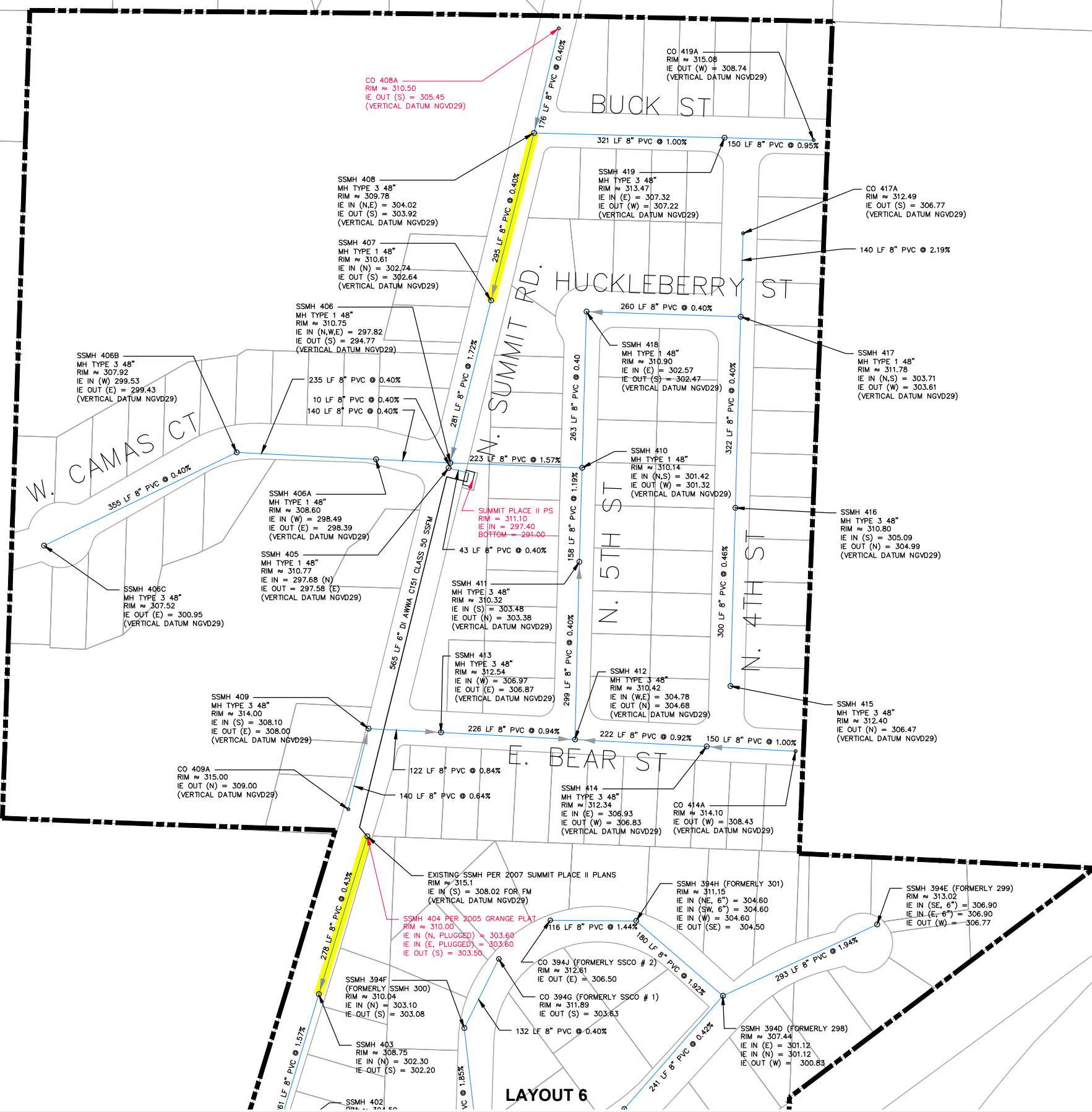
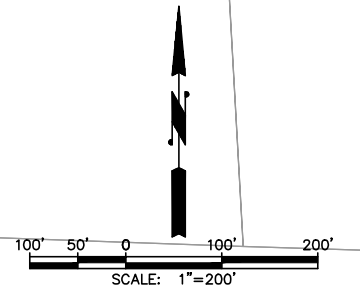
NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.



CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-7
SEWER BASEMAP
(LAYOUT 6)

Gray & Osborne, Inc.
CONSULTING ENGINEERS



- LEGEND:**
- ▶ FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-8
SEWER BASEMAP
(LAYOUT 7)

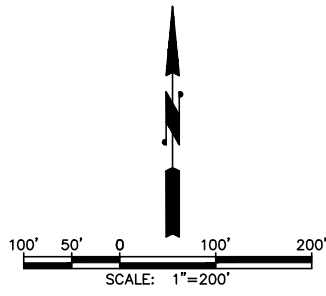


Gray & Osborne, Inc.
CONSULTING ENGINEERS

LAYOUT 6

M:\McCleary\14233 general sewer plan\CAD\McCleary - Sewer BaseMap.dwg, 3/2/2017 7:46 AM, EDWARD HAMMOND

LAYOUT 9



LEGEND:

- ▶ FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

OLD SAND CREEK RD.

S.R. 8

S. 7TH ST.

S. 6TH ST.

S. 5TH ST.

W. OAK ST.

W. PINE ST.

W. HEMLOCK ST.

W. SPRUCE ST.

LAYOUT 2

S. 4TH ST.

SSMH 303
MH TYPE 3 48"
RIM ≈ 277.1
IE OUT (E) = 270.09

SSMH 304
MH TYPE 3 48"
RIM ≈ 274.9
IE-OUT (E) = 270.42

SSMH 309
MH TYPE 1 48"
RIM ≈ 283.4
IE OUT (E) = 274.70

SSMH 238
MH TYPE 1 48"
RIM ≈ 284.4
IE IN (S) = 273.34
IE IN (W) = 273.34
IE OUT (E) = 273.24

SSMH 228
MH TYPE 1 48"
RIM ≈ 279.8
IE IN (S) = 271.78
IE IN (W) = 271.78
IE OUT (N) = 271.68

SSMH 306
MH TYPE 3 48"
RIM ≈ 287.0
IE IN (E) = 280.47
IE IN (W) = 280.47
IE OUT (N) = 280.37

SSMH 310
MH TYPE 1 48"
RIM ≈ 283.0
IE IN (S) = 274.58
IE OUT (N) = 274.48

SSMH 305
MH TYPE 3 48"
RIM ≈ 285.3
IE OUT (E) = 281.29

SSMH 307
MH TYPE 3 48"
RIM ≈ 291.5
IE IN (E) = 286.72
IE IN (S) = 286.82
IE OUT (W) = 286.62

SSMH 311
MH TYPE 3 48"
RIM ≈ 280.0
IE IN (S) = 275.84
IE OUT (N) = 275.74

SSMH 383
RIM ≈ 280.0
IE OUT (N) = 277.56

SSMH 383A

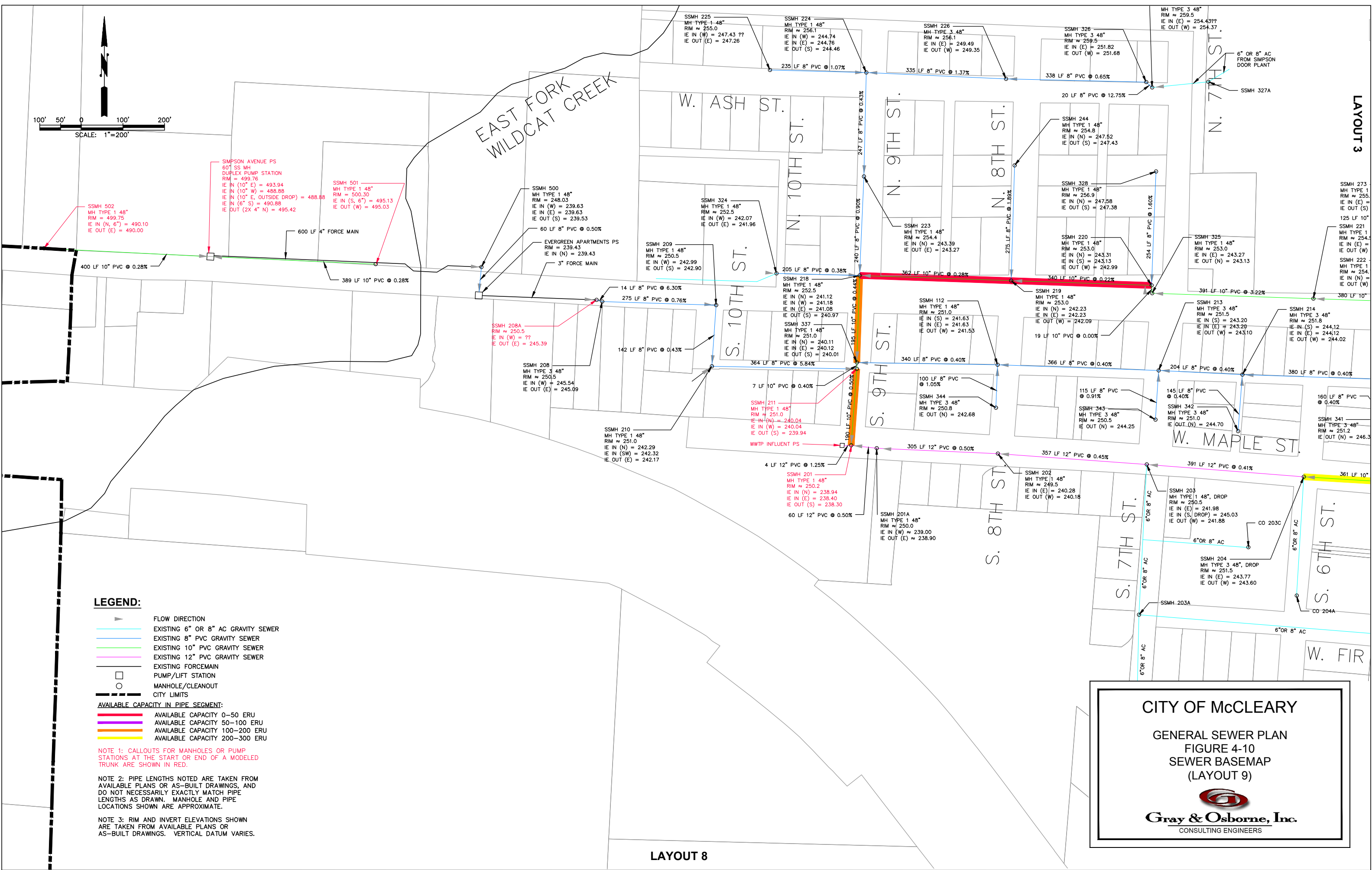
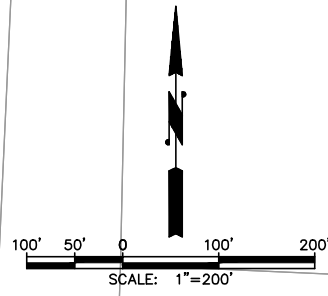
SSMH 383B

CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-9
SEWER BASEMAP
(LAYOUT 8)

Gray & Osborne, Inc.
CONSULTING ENGINEERS

McCleary\14233 general sewer plan\CAD\McCleary - Sewer Basemap.dwg, 3/2/2017 7:47 AM, EDWARD HAMMOND



- LEGEND:**
- FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CITY OF McCLEARY

GENERAL SEWER PLAN
FIGURE 4-10
SEWER BASEMAP
(LAYOUT 9)

Gray & Osborne, Inc.
CONSULTING ENGINEERS

LAYOUT 8

LAYOUT 3

sewer mains in this basin consist of 8" and 10" PVC pipe. Basins 7 and 4 drain to Basin 5. Basin 5 drains to Basin 6.

Basin 6

Basin 6 is located west of Basin 5 and south of Basin 3. It is about 53 acres. This basin consists of primarily single-family residential development and includes the BeeHive Retirement Home. The sewer mains in this basin consist of a mix of 8" PVC pipe and older 6" to 8" AC pipe within the neighborhoods south of W Maple Street, with the main trunk along W Maple Street consisting of 10" and 12" PVC pipe. Basins 7, 4, and 5 drain to Basin 6. Basin 6 drains to the WWTP.

Basin 7

Basin 7 is located in the southeast corner of the City of McCleary south of Basin 4 and east of Basin 5. It consists of the Cedar Heights neighborhood, which is about 12 acres of single-family residential development. The sewer mains in this basin consist of 8" PVC pipe. No basins currently drain to Basin 7. Basin 7 drains to Pump Station 5, which discharges to Basin 4.

Basin 8

Basin 8 is located north of Basin 1 along Summit Road. It consists of the Summit Place I neighborhood, which is about 20 acres of single-family residential development. The sewer mains in this basin consist of 8" PVC pipe. Basin 9 drains to Basin 8. Basin 8 Drains to Basin 1.

Basin 9

Basin 9 is located north of Basin 8 on Summit Road and adjacent to the northern boundary of the City of McCleary. It consists of the Summit Place II neighborhood, which is about 12 acres of single-family residential development. The sewer mains in this basin consist of 8" PVC pipe. No basins currently drain to Basin 9. Basin 9 drains to Pump Station 6, which discharges to Basin 8.

Basin 10

Basin 10 is located west of Basin 3 along W. Simpson Avenue. It serves a small number of single-family residences and a mini-storage. It is about 6 acres. The sewer mains in this basin consist of 10" PVC pipe. No basins drain to Basin 10. Basin 10 drains to Pump Station 4, which pumps to Basin 3.

CHAPTER 5

WASTEWATER TREATMENT PLANT LOADINGS AND PERFORMANCE

INTRODUCTION

In this chapter, the loadings to and performance of the City of McCleary WWTP are analyzed based on WWTP Discharge Monitoring Reports (DMRs). A 4-year period of DMRs, covering November 2012 through October 2016, forms the basis for the analysis presented here.

DEFINITIONS OF TERMS

The terms and abbreviations used in the analysis are described below, listed in alphabetical order.

AVERAGE ANNUAL FLOW

Average annual flow is the average daily flow over a calendar year. This flow parameter is used to estimate annual operation and maintenance costs for treatment and lift station facilities.

AVERAGE DRY WEATHER FLOW

Average dry weather flow is wastewater flow during periods when the groundwater table is low and precipitation is at its lowest of the year. The dry weather flow period in much of Washington normally occurs during June through September. During this time, the wastewater strength is highest, due to the lack of dilution with the ground and surface water components of infiltration and inflow. The higher strength coupled with higher temperatures and longer detention times in the sewer system create the greatest potential for system odors during this time. The average dry weather flow is the average daily flow during the three lowest consecutive flow months of the year. For this study, average flows for June, July, and August are used.

BASE FLOW

Base flow is wastewater flow during periods when the groundwater table is low and there is no precipitation. This is the sanitary sewer flow without any inflow or infiltration (defined below). Base flow is determined from the influent flow charts during the driest summer months. Base flow values are slightly lower than the average dry weather flow, because the base flow is not an average over the summer months, but the lowest flow during dry summer days.

BIOCHEMICAL OXYGEN DEMAND (BOD₅)

Biochemical oxygen demand (BOD) is a measure of the oxygen required by microorganisms in the biochemical oxidation (digestion) of organic matter. BOD is an indicator of the organic strength of the wastewater. If significant quantities are discharged untreated to the environment, biodegradable organics will deplete natural oxygen resources and result in the development of septic (anaerobic) conditions. BOD data together with other parameters are used in the sizing of treatment facilities and provide a measurement for determining the effectiveness of the treatment process. BOD is expressed as a concentration in terms of milligrams per liter (mg/L) and as a load in terms of pounds per day (lb/d). The term BOD typically refers to a 5-day BOD, often written BOD₅, since the BOD test protocol requires 5 days for completion. BOD₅ of a wastewater is composed of two components – a carbonaceous oxygen demand (CBOD₅) and a nitrogenous oxygen demand (NBOD₅). The use of CBOD₅ as a parameter for evaluating wastewater strength removes the influence of nitrogenous components, including ammonia and organic nitrogen.

CHLORINE

Chlorine is a chemical compound that acts as a strong oxidant. Chlorine is widely used as a disinfectant in wastewater treatment, and is available both in gaseous (elemental chlorine) and solution forms (hypochlorite). Chlorine is a toxic chemical and is lethal to aquatic biota if present in too high a concentration. Additionally, some organic constituents may react with the chlorine to interfere with chlorination or form toxic compounds, such as chloroform, that can have long-term adverse effect on the beneficial uses of the waters to which they are discharged. To minimize the effects of potentially toxic chlorine residuals on the environment, it has sometimes been found necessary to dechlorinate wastewater treated with chlorine or substitute alternative disinfection systems such as ultraviolet disinfection.

CONTAMINANTS OF CONCERN

Contaminants of concern in wastewater, in addition to chlorine, BOD, and TSS discussed elsewhere in this section, include nutrients, priority pollutants, heavy metals, and dissolved organics.

Nutrients, such as nitrogen and phosphorus along with carbon, are essential requirements for growth. When discharged to the aquatic environment, these nutrients can lead to the growth of undesirable aquatic life. When discharged in excessive amounts on land, they can also lead to the pollution of groundwater. Additionally, in too high a concentration, nutrients, particularly ammonia, can be toxic to aquatic life.

Priority pollutants are organic and inorganic compounds selected on the basis of their known or suspected carcinogenicity, mutagenicity, teratogenicity, or high acute toxicity.

Many of these compounds are found in wastewater. Inorganic constituents, including heavy metals, are often present in wastewater due to commercial and industrial activities and may have to be removed if the presence of the metals will adversely affect the receiving water, or if the wastewater is to be reused. Some heavy metals (most notably copper) can be present in wastewater due to leaching from drinking water pipes.

DOMESTIC WASTEWATER

Domestic wastewater is wastewater generated from single- and multi-family residences, permanent mobile home courts, and group housing facilities such as nursing homes. Domestic wastewater flow is generally expressed as a unit flow based on the average contribution from each person per day. The unit quantity is expressed in terms of gallons per capita per day (gpcd).

EQUIVALENT RESIDENTIAL UNIT (ERU)

An equivalent residential unit (ERU) is a baseline wastewater generator that represents the average single-family residential household. An ERU can also express the average annual flow contributed by a single-family household, in units of gallons per day, or an annual average loading (of 5-day biochemical oxygen demand or total suspended solids) contributed by a single-family household, in units of pounds per day.

INFILTRATION

Infiltration is groundwater entering a sewer system by means of defective pipes, pipe joints, or manhole walls. Infiltration quantities exhibit seasonal variation in response to groundwater levels. Storm events or irrigation trigger a rise in the groundwater levels and increase infiltration. The greatest infiltration is observed following significant storm events or prolonged periods of precipitation. Since infiltration is related to the total amount of piping and appurtenances in the ground and not to any specific water use component, it is often expressed in terms of the total land area being served. The unit quantity generally used is gallons per acre per day (gpad) or gallons per capita per day (gpcd).

INFLOW

Inflow is surface water entering the sewer system from yard, roof and footing drains, from cross connections with storm drains, and through holes in manhole covers. Peak inflow occurs during heavy storm events when storm sewer systems are taxed beyond their capacity, resulting in hydraulic backups and local ponding. Inflow, like infiltration, can be expressed in terms of gallons per capita per day (gpcd) or gallons per acre per day (gpad).

WWTP flow records are utilized to characterize combined infiltration and inflow (I/I) in the McCleary system in terms of peak day, maximum month, and average annual I/I.

MAXIMUM MONTH FLOW (TREATMENT DESIGN FLOW)

Maximum month flow is the highest monthly flow during a calendar year. The maximum month flow normally occurs in the winter due to the presence of more I/I. This wintertime flow is composed of the normal domestic, commercial, and public use flows with significant contributions from inflow and infiltration. The predicted maximum month flow at the end of the design period is used as the design flow for sizing treatment processes and selecting treatment equipment.

NON-RESIDENTIAL WASTEWATER

Non-residential wastewater is wastewater generated from commercial activities, such as restaurants, retail and wholesale stores, service stations, and office buildings, and industrial flow (process wastewater, rinse water, and other industrial activities). Non-residential wastewater quantities for commercial and industrial wastewater are expressed in this Plan in terms of equivalent residential units (ERUs).

PEAK HOUR FLOW

Peak hour flow is the highest hourly flow during a calendar year. The peak hour flow usually occurs in response to a significant storm event preceded by prolonged periods of rainfall which have previously developed a high groundwater table in the service area. Peak hour flows may be used in sizing the hydraulic capacity of wastewater collection, treatment, and pumping components. Peak hour flow is typically determined from treatment facility flow records and projected future flows. Note that a summary of peak hour flows is not included in this report because hourly flow data is not recorded at the City of McCleary WWTP.

SUSPENDED SOLIDS

Suspended solids is the solid matter carried in the waste stream. The total suspended solids (TSS) in a wastewater sample are determined by filtering a known volume of the sample, drying the filter paper, and measuring the increase in weight of the filter paper. TSS is expressed in the same terms as BOD; milligrams per liter for concentration and pounds per day for mass load. The amount of TSS in the wastewater is used in the sizing of treatment facilities and provides another measure of the treatment effectiveness. The concentration of TSS in wastewater affects the treatment facility biosolids production rate, treatment and storage requirements, and ultimate disposal requirements.

WASTEWATER

Wastewater is water-carried waste from residential, business, industry, and public use facilities, together with quantities of groundwater and surface water which enter the

sewer system through defective piping and direct surface water inlets. The total wastewater flow is quantitatively expressed in millions of gallons per day (MGD).

WASTEWATER TREATMENT PLANT DESIGN DATA

The most recent WWTP upgrade was completed in 2006. This upgrade converted the plant to a Sequencing Batch Reactor (SBR) design, and improved plant capacity from an average day flow of 0.21 MGD to 0.33 MGD. Design data for the City of McCleary WWTP is shown in Table 5-1.

TABLE 5-1

Design Data for McCleary Wastewater Treatment Plant

Design Population Equivalent	3,138
Average Day Flow	0.33 MGD
Maximum Month Wet Weather Flow	0.57 MGD
Peak Day Wet Weather Flow	1.10 MGD
Peak Hour Flow	1.31 MGD
Maximum Month Dry Weather Flow	0.23 MGD
Peak Day Dry Weather Flow	0.34 MGD
BOD Loading	742 lb/day
TSS Loading	1,251 lb/day
Ammonia-N Loading	94 lb/day

NPDES PERMIT LIMITS

The City of McCleary WWTP is operating under NPDES Permit No. WA0024040, which is issued by the Washington State Department of Ecology. The WWTP discharges to the East Fork of Wildcat Creek via a 15" PVC gravity sewer. The current version of the NPDES Permit became effective June 1, 2013, and it expires May 31, 2018. A copy of the permit is provided in Appendix D. For effluent limitations, see Special Condition S1 (page 5) of the permit. For loading limitations, see Special Condition S4 (page 13) of the permit. Loading limitations are based on the design data presented in Table 5-1.

EXISTING WASTEWATER FLOWS AND LOADINGS

EXISTING WASTEWATER FLOWS AT WWTP

WWTP records for the 4-year analysis period from November 2012 through October 2016 were reviewed and analyzed to determine current wastewater characteristics and influent loadings. Table 5-2 provides an annual summary of reported WWTP influent flows for the analysis period. Table 5-3 provides a monthly summary of reported WWTP influent flows, BOD₅ loading, and TSS loading for the analysis period. Information summarized herein is based on Monthly Discharge Monitoring Reports

(DMRs) provided by the City of McCleary. Copies of these DMRs are provided in Appendix G.

Graphical representations of average monthly WWTP flows, monthly peak day WWTP flows, average influent BOD₅ loadings, and average influent TSS loadings for the period from November 2012 through October 2016 are shown in Figures 5-1, 5-2, 5-3, and 5-4, respectively.

TABLE 5-2

Annual Summary of WWTP Influent Flows (Nov 2012 to Oct 2016)

Flow Type (MGD)	Nov. 2012 to Oct. 2013	Nov. 2013 to Oct. 2014	Nov. 2014 to Oct. 2015	Nov. 2015 to Oct. 2016	Average
Average Base Sanitary Flow ⁽¹⁾	0.115	0.113	0.110	0.121	0.115
Average Dry Weather Flow ⁽²⁾	0.125	0.116	0.112	0.123	0.119
Annual Average Flow	0.204	0.184	0.180	0.224	0.198
Maximum Month Flow	0.350	0.347	0.307	0.398	0.351
Minimum Day Flow	0.101	0.097	0.092	0.096	0.097
Peak day Flow	0.801	0.766	0.975	0.858	0.850

- (1) Equal to the sanitary flow without inflow and infiltration, estimated using minimum monthly average influent flow.
- (2) Average of June, July, and August.

TABLE 5-3

**Monthly Summary of Discharge Monitoring Reports (DMRs)
WWTP Influent Monthly Averages**

Month	Average Monthly Flow (MGD)	Monthly Peak Day Flow (MGD)	Average BOD ₅ (mg/L)	Average BOD ₅ (lbs/day)	Average TSS (mg/L)	Average TSS (lbs/day)
Nov 2012	0.350	0.801	51	126	84	208
Dec 2012	0.339	0.528	64	159	46	113
Jan 2013	0.231	0.487	87	146	56	95
Feb 2013	0.216	0.339	93	139	46	71
Mar 2013	0.263	0.379	61	122	50	107
Apr 2013	0.221	0.443	81	132	110	184
May 2013	0.150	0.210	111	131	147	179
Jun 2013	0.143	0.202	133	145	159	174

TABLE 5-3 - (continued)

**Monthly Summary of Discharge Monitoring Reports (DMRs)
WWTP Influent Monthly Averages**

Month	Average Monthly Flow (MGD)	Monthly Peak Day Flow (MGD)	Average BOD₅ (mg/L)	Average BOD₅ (lbs/day)	Average TSS (mg/L)	Average TSS (lbs/day)
Jul 2013	0.117	0.169	170	140	182	152
Aug 2013	0.115	0.153	122	108	112	99
Sep 2013	0.140	0.339	170	171	162	166
Oct 2013	0.157	0.383	145	149	270	278
Nov 2013	0.166	0.274	100	121	124	153
Dec 2013	0.151	0.224	118	132	107	121
Jan 2014	0.203	0.481	94	115	160	204
Feb 2014	0.288	0.740	74	144	98	180
Mar 2014	0.347	0.766	39	101	112	266
Apr 2014	0.221	0.378	91	140	166	250
May 2014	0.194	0.374	116	169	176	260
Jun 2014	0.113	0.131	182	163	229	208
Jul 2014	0.115	0.156	168	133	185	151
Aug 2014	0.118	0.240	173	139	221	180
Sep 2014	0.122	0.201	153	135	179	159
Oct 2014	0.168	0.324	124	136	157	197
Nov 2014	0.218	0.426	77	102	162	240
Dec 2014	0.270	0.562	47	78	101	167
Jan 2015	0.307	0.975	49	97	118	241
Feb 2015	0.255	0.547	58	94	144	238
Mar 2015	0.220	0.480	62	78	141	189
Apr 2015	0.157	0.218	73	87	146	179
May 2015	0.124	0.166	106	92	170	149
Jun 2015	0.110	0.154	125	99	172	140
Jul 2015	0.111	0.145	180	142	331	266
Aug 2015	0.115	0.183	112	99	199	178
Sep 2015	0.126	0.157	106	104	217	221
Oct 2015	0.145	0.324	137	139	198	192
Nov 2015	0.361	0.858	124	221	129	257
Dec 2015	0.398	0.756	69	189	78	212
Jan 2016	0.300	0.674	74	149	120	215

TABLE 5-3 - (continued)

**Monthly Summary of Discharge Monitoring Reports (DMRs)
WWTP Influent Monthly Averages**

Month	Average Monthly Flow (MGD)	Monthly Peak Day Flow (MGD)	Average BOD₅ (mg/L)	Average BOD₅ (lbs/day)	Average TSS (mg/L)	Average TSS (lbs/day)
Feb 2016	0.295	0.428	72	138	105	209
Mar 2016	0.324	0.595	62	151	68	158
Apr 2016	0.153	0.204	128	143	147	164
May 2016	0.129	0.165	146	146	187	195
Jun 2016	0.126	0.174	199	187	220	211
Jul 2016	0.123	0.166	170	151	176	162
Aug 2016	0.121	0.155	162	139	151	114
Sep 2016	0.128	0.166	155	146	167	160
Oct 2016	0.231	0.462	111	159	131	196

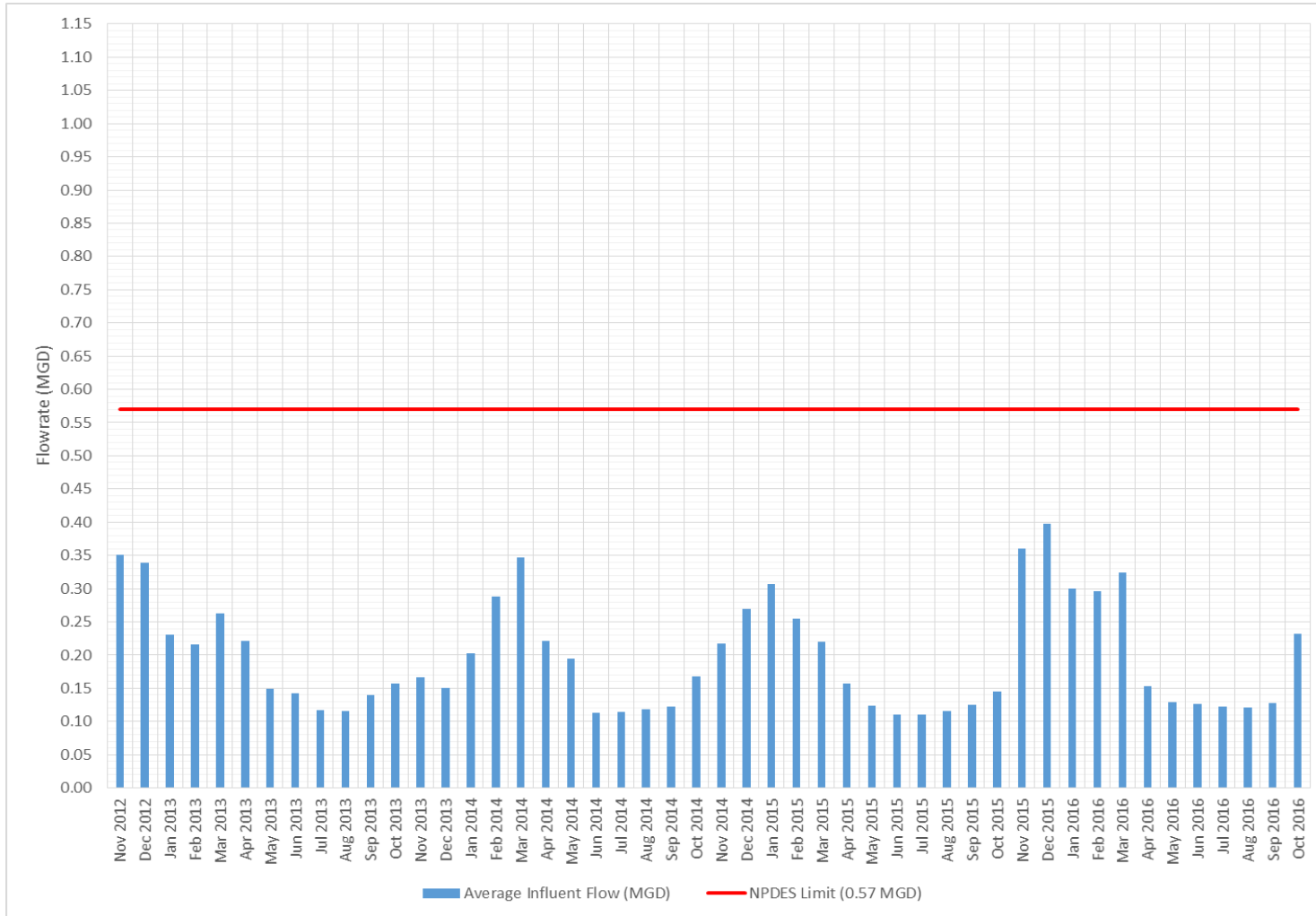


FIGURE 5-1

Monthly Average Influent Flow and NPDES Limit (November 2012 – October 2016)

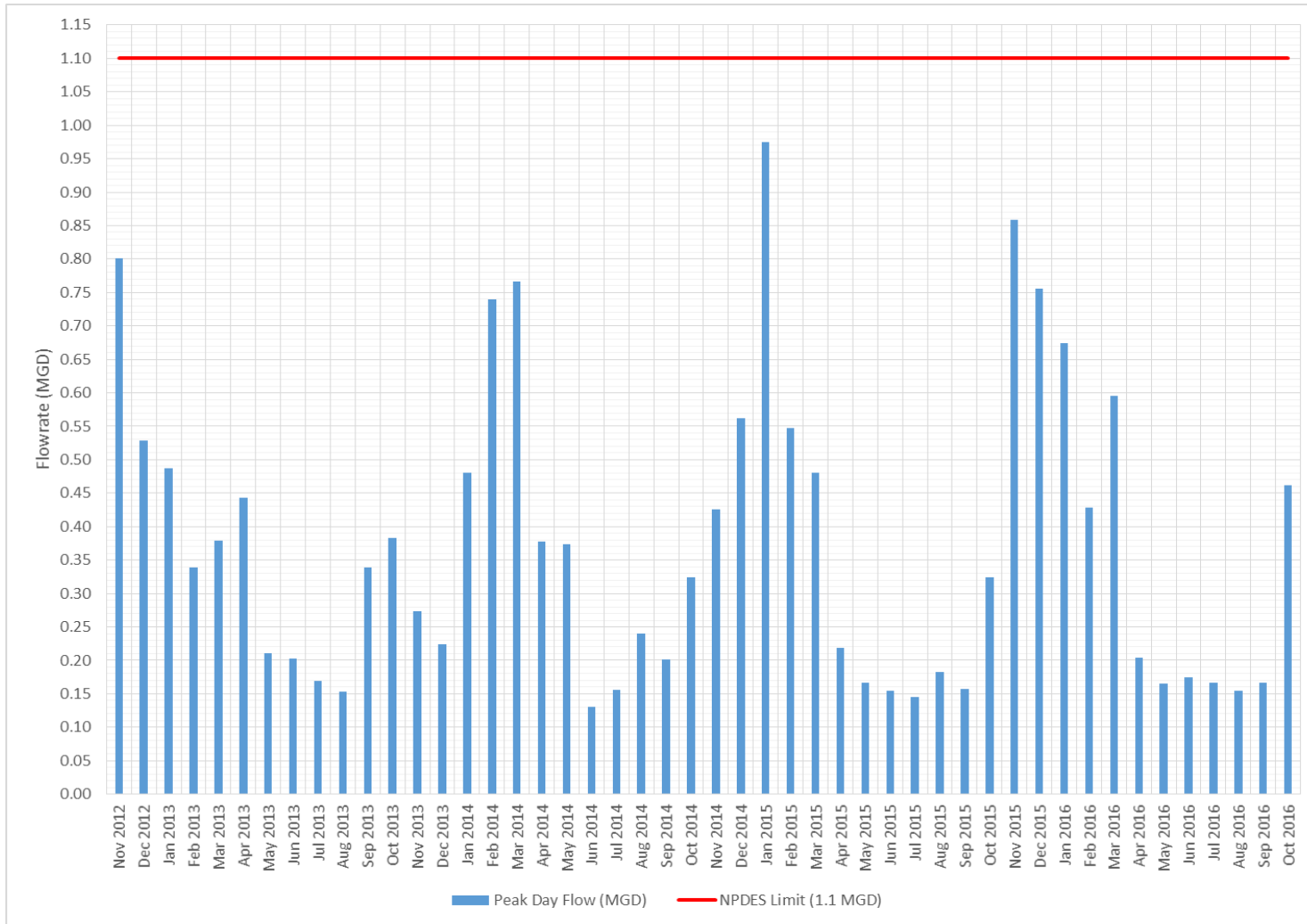


FIGURE 5-2

Monthly Peak Day Influent Flow and NPDES Limit (November 2012 – October 2016)

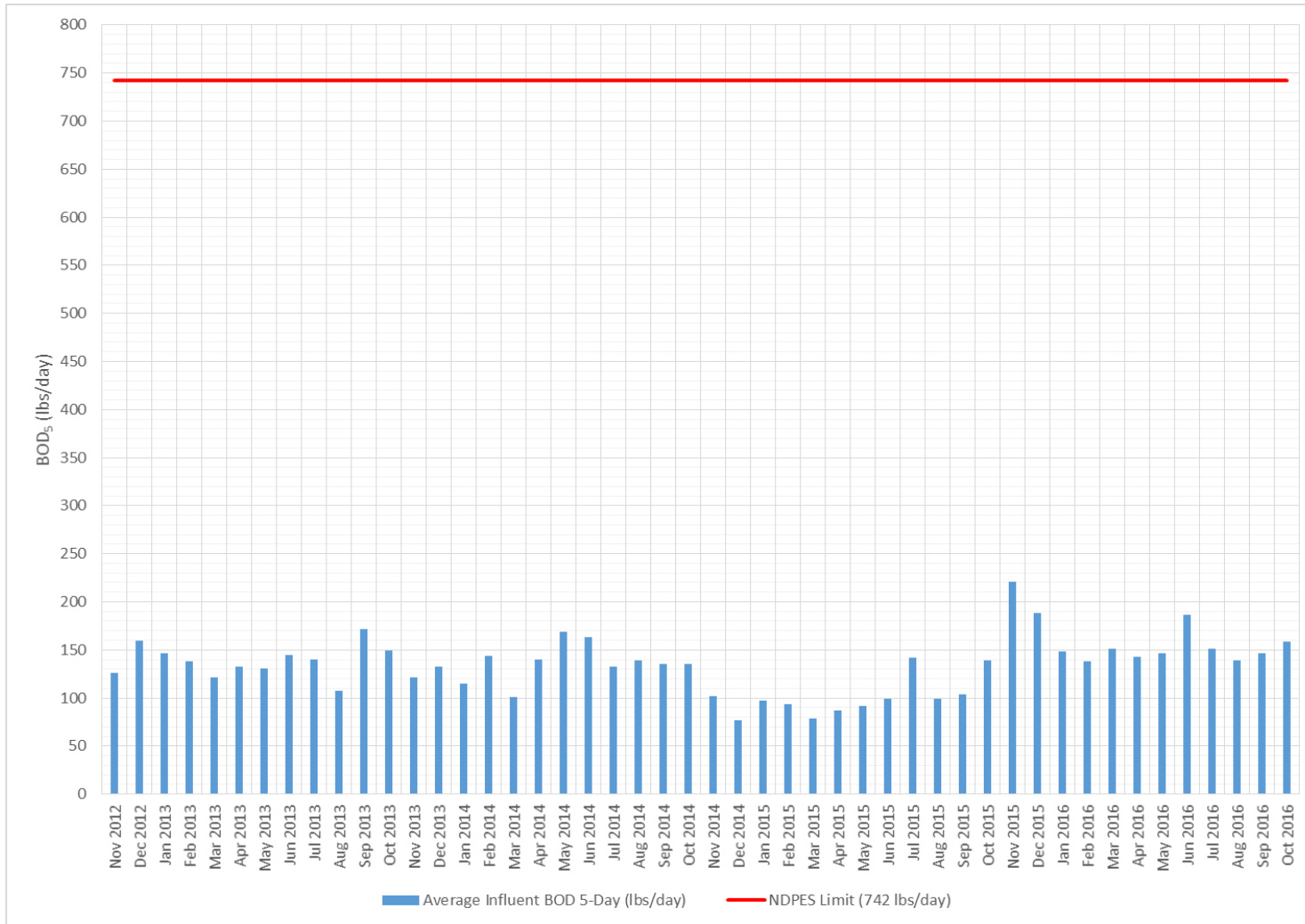


FIGURE 5-3

Monthly Average BOD₅ Influent Loading and NPDES Limit (November 2012 – October 2016)

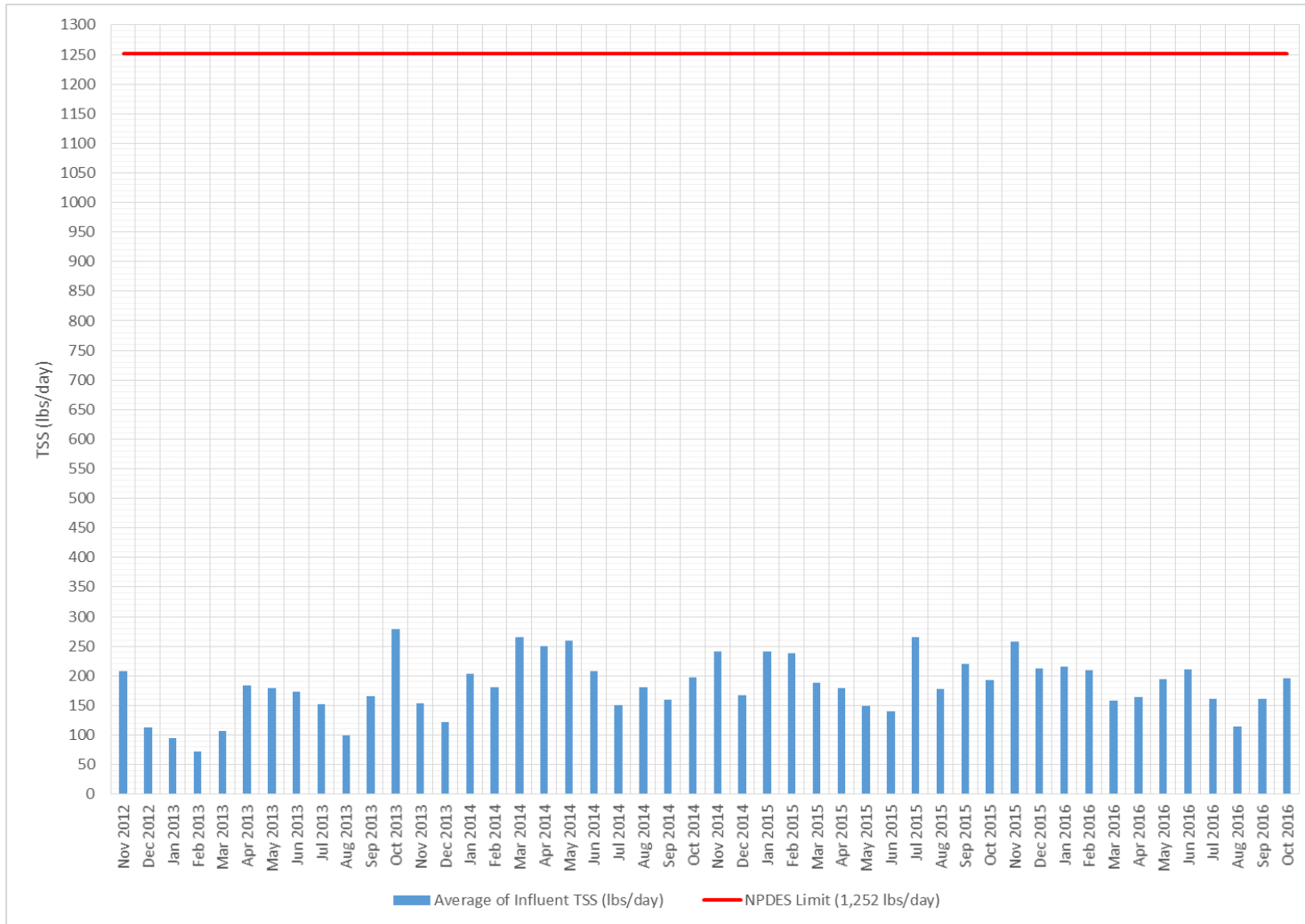


FIGURE 5-4

Monthly Average TSS Influent Loading and NPDES Limit (November 2012 – October 2016)

Table 5-3 and Figure 5-1 show that monthly average WWTP flows ranged from 0.110 MGD to 0.398 MGD over the analysis period, and that the maximum permitted flow of 0.57 MGD was not exceeded.

The average dry weather flow over the analysis period was 0.119 MGD. With an average residential population of 1,670 during this time period, this translates to a dry weather per capita flow of 71 gal/cap/day (gpcd) and 178 gal/ERU/day, based on 2.5 persons per ERU.

The average annual flow over the analysis period was 0.198 MGD.

The maximum monthly flow of 0.398 MGD occurred in December of 2015. The peak day flow of 0.975 MGD was recorded on January 6, 2015. There is no record of peak hour flows.

Existing flows at the WWTP current as of Oct 2016 are summarized in Table 5-4.

TABLE 5-4

McCleary WWTP Flows as of October 2016

Flow Type	Flow Rate (MGD)
Average Dry Weather Flow ⁽¹⁾	0.119
Annual Average Flow ⁽²⁾	0.198
Maximum Month Flow ⁽³⁾	0.398
Peak Day Flow ⁽⁴⁾	0.975
Peak Hour Flow	Not Recorded

(1) Based on the average for June, July, and August of 2013, 2014, 2015, and 2016.

(2) Based on average for November 2012 through October 2016.

(3) Based on the period November 2012 through October 2016. Maximum month flow was recorded in December of 2015.

(4) Based on the period November 2012 through October 2016. Peak day flow was recorded on January 6, 2015.

INFILTRATION AND INFLOW ANALYSIS

In order to calculate infiltration and inflow to McCleary’s sewer system, the Average Base Sanitary Flow of 0.115 MGD (see Table 5-2) was subtracted from the Annual Average Flow, the Maximum Month Flow, and the Peak Day Flow, and the resultant divided by either sewered area (for I/I in gpad) or population (for I/I in gpcd). The total sewered area used in these calculations is 385 acres. The population values used are 1,670 persons (the average population over the study period) for Annual Average Flow and 1,680 persons (the population in 2015) for Maximum Month Flow and Peak Day Flow. Maximum Month Flow was recorded in December 2015, and Peak Day Flow as recorded on January 6, 2015. Calculation results are summarized in Table 5-5.

The data contained in this table is useful as a baseline for evaluating changes in infiltration and inflow in the future.

TABLE 5-5

McCleary Infiltration and Inflow Results

Flow Type	Flow, MGD	I/I, MGD	I/I, gpad	I/I, gpcd
Annual Average Flow	0.198	0.083	216	50
Maximum Month Flow	0.398	0.283	735	168
Peak Day Flow	0.975	0.860	2,234	512

These infiltration and inflow values are not unusually high compared with other small cities in western Washington, though there is room for improvement in reducing the infiltration and inflow associated with the Peak Day Flow. As discussed further in Chapter 6, the City completed collection system repairs over the summer of 2016 that appear likely to reduce infiltration and inflow associated with the Peak Day Flow. An analysis of whether the City’s collection system suffers from “Excessive” infiltration and inflow by EPA criteria is presented in the following section.

INFILTRATION AND INFLOW USING EPA CRITERIA

An analysis of infiltration and inflow was performed to compare estimates of per capita I/I to EPA criteria. These infiltration and inflow rates are summarized in Table 5-6.

The U.S. EPA manual entitled *I/I Analysis and Project Certification* provides recommended guidelines for determining if infiltration and/or inflow is excessive.

1. To determine if excessive *infiltration* is occurring, a threshold value of 120 gallons per capita per day (gpcd) is used. This infiltration value is based on an average daily flow over a seven to fourteen day non-rainfall period during seasonal high ground water conditions.
2. To determine if excessive *inflow* is present in a collection system, the U.S. EPA uses a threshold value of 275 gpcd. If the average daily flow during periods of significant rainfall (i.e. any storm event that creates surface ponding and surface runoff) exceeds 275 gpcd, the amount of inflow is considered excessive.

TABLE 5-6

Per Capita Infiltration and Inflow Based on EPA Criteria

Parameter	EPA Criteria for Excessive I/I (gpcd)	Estimated McCleary I/I Value (gpcd)
EPA Excessive Infiltration Criteria	120	85
EPA Excessive Inflow Criteria	275	202

Infiltration

Rainfall records from the City of McCleary WWTP show a 7-day period, February 3 through February 9, 2014, during which no amounts of rainfall were measured. This would also be a period of relatively high groundwater. The average daily flow recorded during this time period was 0.141 MGD. With an estimated total residential population in the City of McCleary in 2014 of 1,660, the “EPA I/I Infiltration Value” for McCleary is estimated at 85 gpcd (141,000 gal/1,660 persons). This value is less than the EPA limit and therefore the system is not designated as having excessive infiltration.

Inflow

To determine whether McCleary has excessive inflow by EPA criteria, a threshold value of 1 inch/day of rain was used as the lower limit at which surface ponding and surface runoff could be expected to occur. An average of the daily flows at the WWTP was taken, including in the average only days during which an inch or more of rain was recorded at the WWTP. This “average daily flow during periods of significant rainfall” was determined to be 0.337 MGD, and included 86 days during the study period (November 2012 through October 2016). With an average residential population in the City of McCleary over the study period of 1,670 persons, the “EPA I/I Inflow Value” for McCleary is thus estimated at 202 gpcd (337,000 gal/1,670 persons). Since this value is less than the EPA guideline of 275 gpcd, the sewer collection system is not considered to have excessive inflow by EPA criteria.

EXISTING BOD₅ LOADING

Monthly average influent BOD₅ loadings ranged from 78 lb/day to 221 lb/day for the 4-year analysis period (Nov 2012 – Oct 2016) as shown in Table 5-1 and Figure 5-3. The permitted monthly average influent BOD₅ design loading of 742 lb/day was not exceeded during the analysis period. The average influent BOD₅ concentration over the analysis period was 111 mg/L, which is typical of low strength domestic wastewater. The average BOD₅ loading over the analysis period was 134 lb/day. The maximum month BOD₅ loading of 221 lb/day was observed in November of 2015. The resident population in 2015 was 1,680. This BOD₅ loading and population translates to a maximum month

BOD₅ loading of 0.13 lb per capita per day (lb/cap/day). The ratio of the maximum month to average BOD₅ loading is 1.6:1.

EXISTING TOTAL SUSPENDED SOLIDS LOADING

Monthly average TSS loadings ranged from 71 to 278 lb/day for the 4-year analysis period (Nov 2012 – Oct 2016) as shown in Table 5-1 and Figure 6-4. The permitted TSS loading of 1,252 lb/day was not exceeded during the analysis period. The average influent TSS concentration of 148 mg/L is typical of weak to medium strength domestic wastewater. The average TSS loading over the analysis period was 184 lb/day. The maximum month TSS loading of 278 lb/day was observed in October of 2013, during which time the resident population was 1,655, giving a loading of 0.17 lb/cap/day. The ratio of the maximum month to average TSS loading is 1.5:1.

ANALYSIS OF WASTEWATER TREATMENT PLANT PERFORMANCE

Table 5-7 presents a summary of the performance of the City of McCleary WWTP with reference to NPDES permit limitations. A copy of the permit is provided in Appendix D.

Permit violations noted include the following:

1/5/2015: pH recorded was 6.0, which was below the daily minimum of 6.5. This was likely due to the highly dilute nature of the influent wastewater due to a severe storm. Rainwater typically has a pH of around 5.7, and there was a significant amount of infiltration and inflow to the sewer system associated with this storm.

1/6/2015: pH recorded was 6.45, which was below the daily minimum of 6.5. This was likely due to the highly dilute nature of the influent wastewater due to a severe storm. Rainwater typically has a pH of around 5.7, and there was a significant amount of infiltration and inflow to the sewer system associated with this storm.

8/26/2015: Effluent Dissolved Oxygen recorded was 8.53 mg/L, which was slightly below the limit allowed by the permit of 8.7 mg/L.

9/14/2015: Effluent Dissolved Oxygen recorded was 8.68 mg/L, which was slightly below the limit allowed by the permit of 8.7 mg/L.

TABLE 5-7

Summary of City of McCleary WWTP Performance

Effluent Limitations: Outfall #001			
<i>McCleary WWTP effluent NPDES permit limits (per Special Condition S1 of Permit WA0024040) are given below, followed in parentheses by the range of values determined from WWTP Discharge Monitoring Reports over the study period (November 2012 through October 2016). Values associated with permit violations are in bold.</i>			
Parameter	Average Monthly	Average Weekly	Comment
Biochemical Oxygen Demand (5 day)	15 (1.61—5.63) mg/L, 31/71 ⁽¹⁾ (1.84—10.90) lbs/day 85% (92%—99%) removal of influent BOD	23 (0.89—8.82) mg/L, 47/107 ⁽²⁾ (1.04—16.86) lbs/day	Effluent BOD results were satisfactory over the study period.
Total Suspended Solids	15 (1.43—6.48) mg/L, 71 (1.55—19.40) lbs/day, 85% (85%—99%) removal of influent TSS	23 (0.54—11.25 mg/L), 107 (0.43—31.10) lbs/day	Effluent TSS results were satisfactory over the study period.
Fecal Coliform Bacteria	91 (1—2) Organisms/100 mL	182 (1—7) Organisms/100 mL	Effluent Fecal Coliform results were satisfactory over the study period.
pH	Daily minimum is equal to or greater than 6.5 and the daily maximum is less than or equal to 8.5 (6.00—8.06)		pH permit violations occurred on 1/5/2015 (pH = 6.00) and 1/6/2015 (pH = 6.45) during a severe storm. Rain recorded at the WWTP was 4.93 in on 1/5/2015 and 0.78 in on 1/6/2016.

TABLE 5-7 – (continued)

Summary of City of McCleary WWTP Performance

Effluent Limitations: Outfall #001			
<i>McCleary WWTP effluent NPDES permit limits (per Special Condition S1 of Permit WA0024040) are given below, followed in parentheses by the range of values determined from WWTP Discharge Monitoring Reports over the study period (November 2012 through October 2016). Values associated with permit violations are in bold.</i>			
Dissolved Oxygen	Shall not be less than 8.7/8.0 ⁽³⁾ (8.53 —13.42) mg/L		Minor Dissolved Oxygen permit violations occurred on 8/26/2015 (D.O. = 8.53 mg/L) and 9/14/2015 (D.O. = 8.68 mg/L).
Temperature ⁽⁴⁾	Operate the Chiller when effluent temperature exceeds 17.8 (9.7—20.2) °C		Effluent temperatures above 17.8°C were recorded during May 2013, October 2013, October 2014, October 2015, April 2016, and October 2016. These months are outside the range (June through September) when the Chiller is required to be operated when the effluent temperature exceeds 17.8°C, so these effluent temperature exceedances are not associated with any permit violations.
Parameter	Average Monthly	Maximum Daily	Comment
Total Ammonia (as NH3-N)	1.0 (0.11—0.48) mg/L, 4.32 ⁽⁵⁾ (0.13—1.47) lbs/day	2.0 (0.03—0.99) mg/L	Effluent Total Ammonia results were satisfactory over the study period.

- (1) Permit limit is 31 lbs/day June through September and 71 lbs/day October through May.
- (2) Permit limit is 47 lbs/day June through September and 107 lbs/day October through May.
- (3) Permit minimum dissolved oxygen is 8.7 mg/L June through September and 8.0 mg/L October through May.
- (4) The temperature limit only applies June through September. Note that the range of values given is for the entire study period, not only June through September.
- (5) Permit limit of 4.32 lbs/day only applies June through September. Note that the range of values given is for the entire study period, not only June through September.

WWTP CONCLUSIONS AND RECOMMENDATIONS

Aside from the four relatively minor effluent NPDES permit violations listed previously, the City of McCleary Wastewater Treatment Plant is performing well and operating within the requirements of its NPDES permit. As a result of the WWTP's good performance and the relatively minor growth anticipated for the City (0.5 percent per year as documented in Chapter 3), no capacity expansion projects are anticipated to be required within the 20-year planning horizon. Three capital improvement projects that should be considered are the installation of a non-potable water system, revising electrical panels to isolate the main plant pump station from the HVAC system), and modifications to the sludge handling system. These projects are briefly described below.

NON-POTABLE WATER SYSTEM

The WWTP currently uses potable water for washdown, spray bars and belt press operations. The average monthly water use at the WWTP is approximately 0.74 MG (over 13 percent of the water supplied by the City's municipal wells). Installing a non-potable water system would significantly reduce the use of potable water at the WWTP, providing additional water capacity for future connections to the City's water system.

ELECTRICAL PANEL MODIFICATIONS

Some of the WWTP main plant pump station electrical components currently reside in the same panel that controls the WWTP HVAC system. A previous shutdown to the HVAC system affected the operations of the main plant pump station. Modifying the system to add a new panel, allowing the main plant pump station components to be isolated from the HVAC system is recommended to eliminate any future unnecessary shut down of the pump station due to a shutdown of the HVAC system.

SLUDGE HANDLING MODIFICATIONS

The WWTP expansion in 2006 included a design for the installation of sludge drying equipment to produce class A sludge but the City was not able to secure adequate funding to procure and install the equipment. The WWTP currently generates Class B biosolids via alkaline stabilization and the biosolids are hauled to beneficial use sites by Tenelco. The process generates biosolids with fecal coliform geometric mean less than 15 percent of the Class B limits of 2 million MNPN per gram (as required for land application). Although this process works well, it is recommended that alternatives be evaluated in a study in the near future to determine the best approach for the 20-year planning period.

Financial considerations related to the above recommendations are discussed in Chapter 7.

RECLAIMED WATER ASSESSMENT

A detailed evaluation of the potential for water reclamation at the City of McCleary WWTP was provided in Chapter 6 of the *September 2001 Wastewater Facility Plan* prepared by Parametrix, Inc. This report considered the following possible reclaimed water uses:

- Landscape irrigation
- Irrigation of food/nonfood crops
- Impoundments
- Industrial Process
- Groundwater Recharge
- Natural Wetlands
- Constructed Treatment Wetland
- Streamflow Augmentation
- Minor Uses (e.g., decorative fountains, street cleaning, dust control, etc.)

The conclusion of this evaluation was that *“None of the evaluated reclaimed water uses are recommended at this time due to their high costs and limited benefits. Benefits of keeping the future discharge to the creek include:*

- *Creation of fish habitat through deeper pools and riffles downstream of the discharge.*
- *Improved dissolved oxygen levels in the nearfield under depressed ambient conditions.*
- *Improved pH levels under depressed ambient conditions.*
- *Improved temperature under average dry season conditions (when effluent cooling is implemented).*

These benefits were realized with the upgrade of the McCleary WWTP in 2006, which did not incorporate water reclamation.

The conditions influencing such an evaluation are not significantly different now than they were when the *Wastewater Facility Plan* was completed in 2001. As stated previously, no significant expansion projects are anticipated to be required at the WWTP within the 20-year planning horizon. Accordingly, water reclamation at the McCleary WWTP does not need to be considered further at this time. If/when a significant capacity expansion to the McCleary WWTP is required, water reclamation will be considered as part of planning for that upgrade.

CHAPTER 6

COLLECTION SYSTEM EVALUATION

INTRODUCTION

This chapter presents the results of the City of McCleary collection system evaluation. The evaluation includes a hydraulic/hydrologic analysis to evaluate the capacity of the collection systems under existing and future conditions. Existing population and wastewater flows presented in Chapters 3 and 5 of this Plan are utilized to develop data for use in the hydraulic model. Total land use area and wastewater flows are allocated to individual subareas, or basins, to identify current and future deficiencies in the collection system.

A spreadsheet-based model was used to evaluate the capacity of the existing collection system and to identify improvements that will be required to accommodate existing and future wastewater flows.

TRUNK SEWER DELINEATION

Sewer trunk lines to be modeled were determined based on the structure of the collection system and on areas observed by City staff to have high flows and velocities during a rain event. Twenty-two separate trunks consisting of a total of 99 pipes were modeled as part of this analysis. Modeled trunks are shown in Figure 6-1.

FLOW LOADING ASSUMPTIONS

As described in Chapter 3, there are assumed to be 831 ERUs connected to the McCleary sewer system.

The collection system is organized around ten main sewer basins. These basins are described in Chapter 4 and are shown in Figure 6-1. After each basin was delineated and its area determined, the total of 831 ERUs was then allocated to each sewer basin according to its fraction of the total sewer service area.

In order to determine the peak flow associated with each sewer basin, it was necessary to first separate the peak flow observed at the WWTP during the DMR analysis period into dry-weather and infiltration/inflow components. The average dry weather flow at the WWTP was 0.119 MGD, and the peak flow observed at the WWTP was approximately 1.0 MGD. Thus, the extreme wet weather I/I flow used for the purposes of this analysis was 0.881 MGD (or 1.0 MGD minus 0.119 MGD). These dry-weather and I/I flows were then apportioned to each sewer basin according to number of ERUs in each basin. A peaking factor was applied to the dry-weather flow component based on the presumed population within each basin according to guidelines presented in the Department of

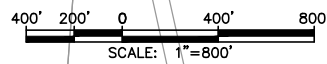
Ecology publication *Criteria for Sewage Works Design* (2.5 persons/ERU was assumed), and the resultant peak dry-weather flow was then summed to the extreme wet weather I/I flow in order to arrive at peak flows for each sewer basin to be used for this analysis. The conservative assumptions implicit here are that peak sanitary flow occurs simultaneously with peak I/I into the sewer system, and that peak flow within each basin also occurs simultaneously.

In order to represent typical winter flows during moderate storm events, a similar analysis was performed for a less extreme wet weather case of 0.5 MGD at the WWTP instead of 1.0 MGD (denoted “Wet Weather Flow” herein). The results of this flow loading analysis are presented in Table 6-1.

TABLE 6-1

Sewer Basin Flow Loading Analysis

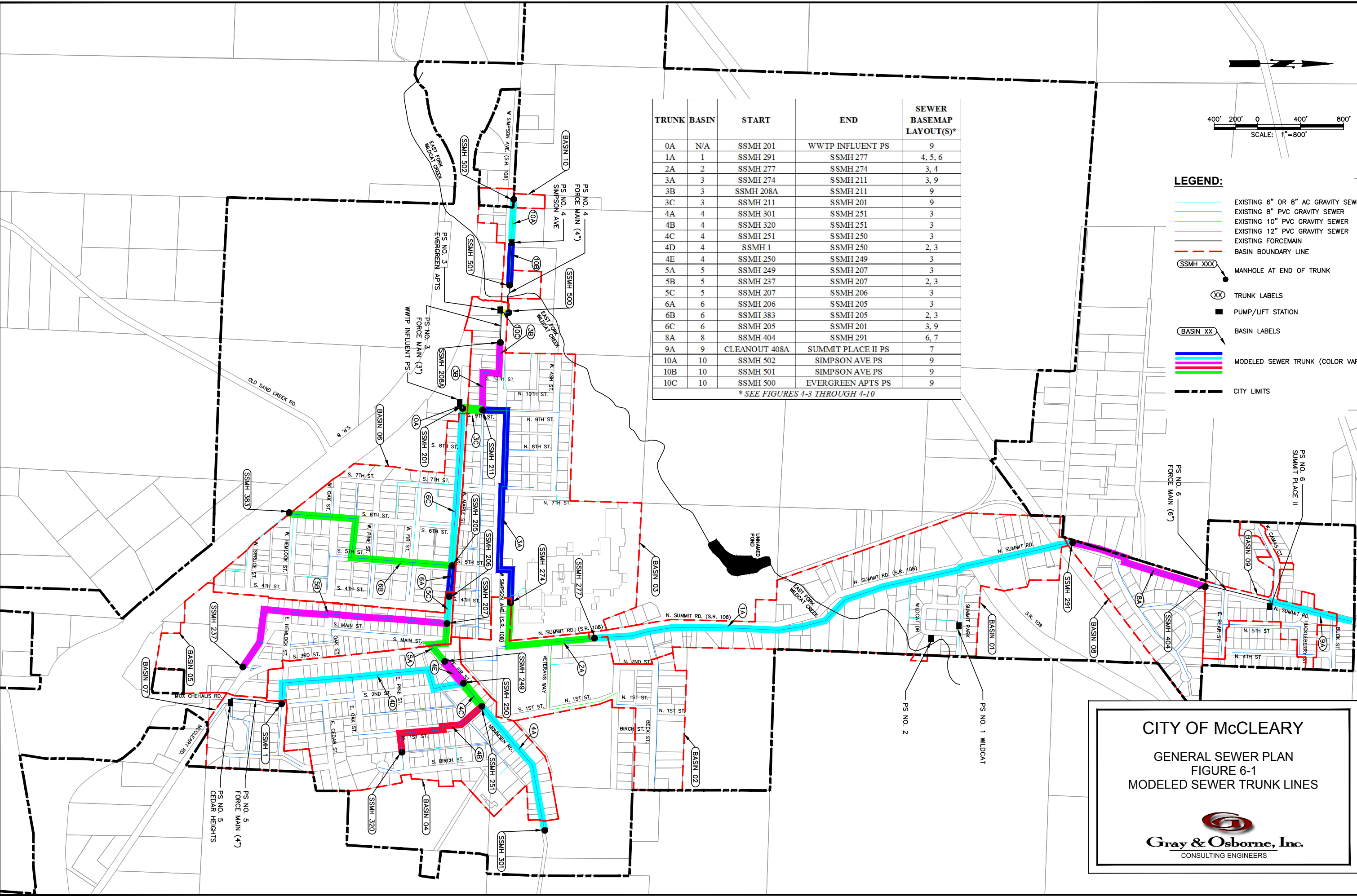
Basin or Subbasin	Basin Area (acres)	ERU Count⁽¹⁾	Equivalent Population⁽²⁾	Peaking Factor⁽³⁾	Dry Weather Flow⁽⁴⁾ (gpm)	Wet Weather Flow⁽⁵⁾ (gpm)	Extreme Wet Weather Flow⁽⁶⁾ (gpm)
1	66	142	356	4.0	57	102	162
2	36	79	197	4.2	32	58	90
3	81	174	435	4.0	69	125	197
4	62	134	334	4.1	54	96	152
5	37	79	198	4.1	33	58	91
6	53	114	284	4.1	46	82	130
7	12	25	64	4.3	11	19	30
8	20	43	108	4.2	18	32	50
9	12	27	67	4.3	11	20	31
10	6	14	34	4.3	6	10	16
3S1 - Evergreen Apartments (16 Units)	N/A	16	40	4.3	7	12	19



TRUNK	BASIN	START	END	SEWER BASEMAP LAYOUT(S)*
0A	N/A	SSMH 201	WWTP INFLUENT PS	9
1A	1	SSMH 291	SSMH 277	4, 5, 6
2A	2	SSMH 277	SSMH 274	3, 4
3A	3	SSMH 274	SSMH 211	3, 9
3B	3	SSMH 208A	SSMH 211	9
3C	3	SSMH 211	SSMH 201	9
4A	4	SSMH 301	SSMH 251	3
4B	4	SSMH 320	SSMH 251	3
4C	4	SSMH 251	SSMH 250	3
4D	4	SSMH 1	SSMH 250	2, 3
4E	4	SSMH 250	SSMH 249	3
5A	5	SSMH 249	SSMH 207	3
5B	5	SSMH 237	SSMH 207	2, 3
5C	5	SSMH 207	SSMH 206	3
6A	6	SSMH 206	SSMH 205	3
6B	6	SSMH 383	SSMH 205	2, 3
6C	6	SSMH 205	SSMH 201	3, 9
8A	8	SSMH 404	SSMH 291	6, 7
9A	9	CLEANOUT 408A	SUMMIT PLACE II PS	7
10A	10	SSMH 502	SIMPSON AVE PS	9
10B	10	SSMH 501	SIMPSON AVE PS	9
10C	10	SSMH 500	EVERGREEN APTS PS	9

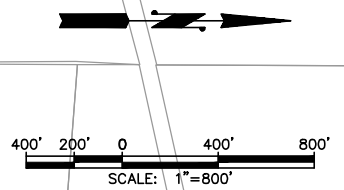
* SEE FIGURES 4-3 THROUGH 4-10

- LEGEND:**
- EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - BASIN BOUNDARY LINE
 - MANHOLE AT END OF TRUNK
 - TRUNK LABELS
 - PUMP/LIFT STATION
 - BASIN LABELS
 - MODELED SEWER TRUNK (COLOR VARIES)
 - CITY LIMITS



CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 6-1
 MODELED SEWER TRUNK LINES

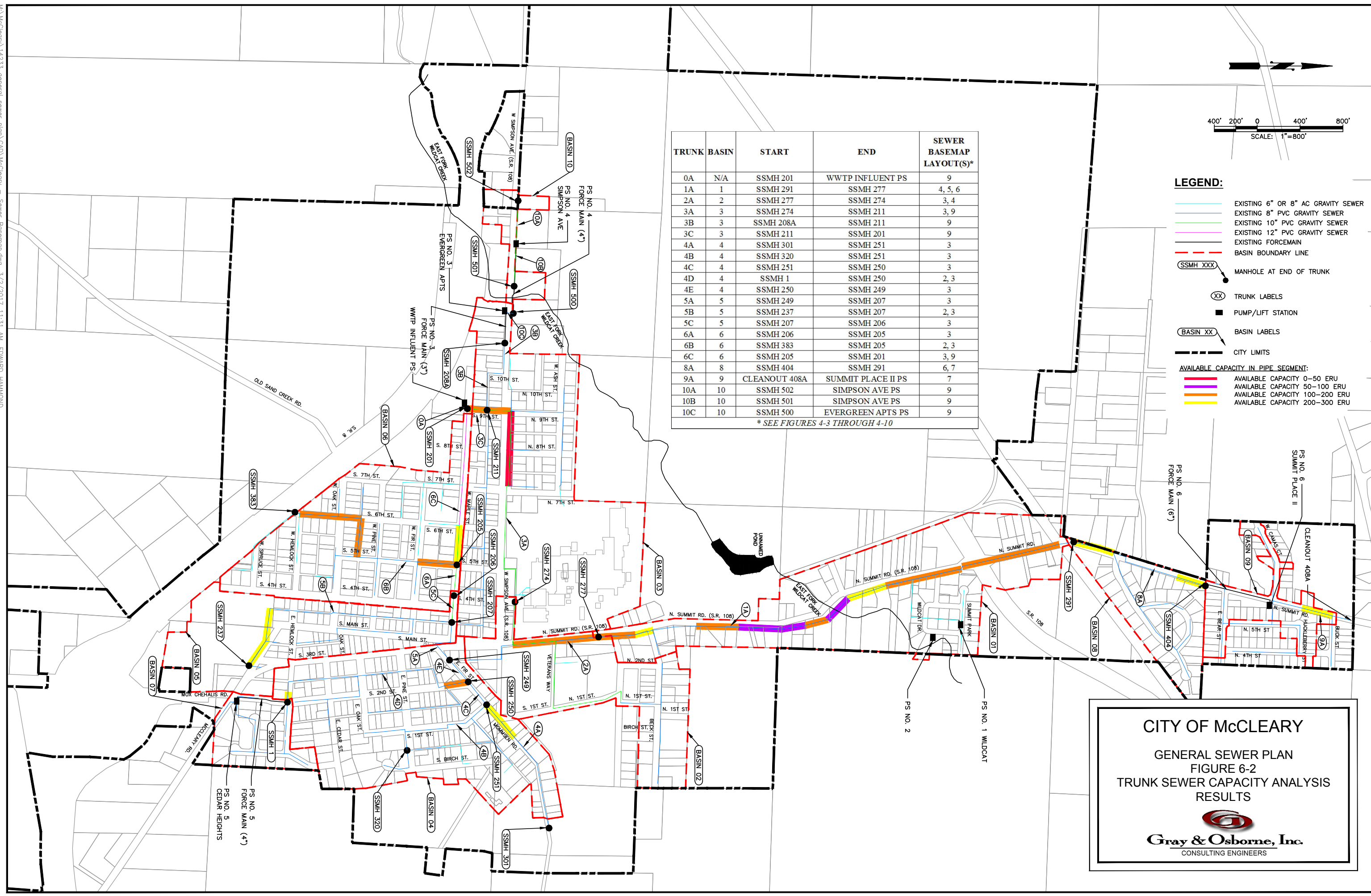
Gray & Osborne, Inc.
 CONSULTING ENGINEERS



TRUNK	BASIN	START	END	SEWER BASEMAP LAYOUT(S)*
0A	N/A	SSMH 201	WWTP INFLUENT PS	9
1A	1	SSMH 291	SSMH 277	4, 5, 6
2A	2	SSMH 277	SSMH 274	3, 4
3A	3	SSMH 274	SSMH 211	3, 9
3B	3	SSMH 208A	SSMH 211	9
3C	3	SSMH 211	SSMH 201	9
4A	4	SSMH 301	SSMH 251	3
4B	4	SSMH 320	SSMH 251	3
4C	4	SSMH 251	SSMH 250	3
4D	4	SSMH 1	SSMH 250	2, 3
4E	4	SSMH 250	SSMH 249	3
5A	5	SSMH 249	SSMH 207	3
5B	5	SSMH 237	SSMH 207	2, 3
5C	5	SSMH 207	SSMH 206	3
6A	6	SSMH 206	SSMH 205	3
6B	6	SSMH 383	SSMH 205	2, 3
6C	6	SSMH 205	SSMH 201	3, 9
8A	8	SSMH 404	SSMH 291	6, 7
9A	9	CLEANOUT 408A	SUMMIT PLACE II PS	7
10A	10	SSMH 502	SIMPSON AVE PS	9
10B	10	SSMH 501	SIMPSON AVE PS	9
10C	10	SSMH 500	EVERGREEN APTS PS	9

* SEE FIGURES 4-3 THROUGH 4-10

- LEGEND:**
- EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - BASIN BOUNDARY LINE
 - SSMH XXX MANHOLE AT END OF TRUNK
 - XX TRUNK LABELS
 - PUMP/LIFT STATION
 - BASIN XX BASIN LABELS
 - CITY LIMITS
- AVAILABLE CAPACITY IN PIPE SEGMENT:**
- AVAILABLE CAPACITY 0-50 ERU
 - AVAILABLE CAPACITY 50-100 ERU
 - AVAILABLE CAPACITY 100-200 ERU
 - AVAILABLE CAPACITY 200-300 ERU



CITY OF McCLEARY

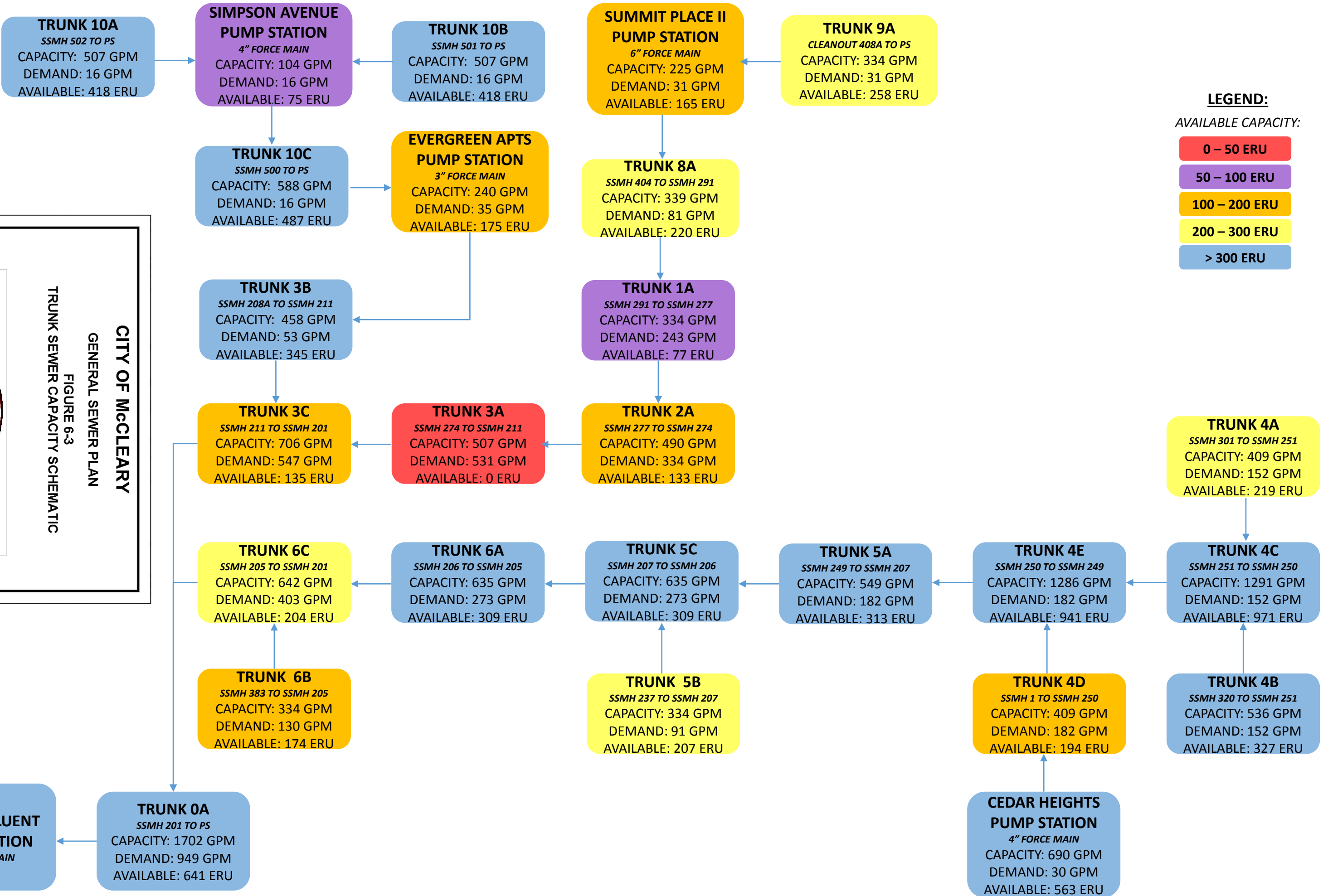
GENERAL SEWER PLAN
FIGURE 6-2
TRUNK SEWER CAPACITY ANALYSIS
RESULTS

Gray & Osborne, Inc.
CONSULTING ENGINEERS

CITY OF McCLEARY
GENERAL SEWER PLAN
FIGURE 6-3
TRUNK SEWER CAPACITY SCHEMATIC



Gray & Osborne, Inc.
CONSULTING ENGINEERS



LEGEND:
AVAILABLE CAPACITY:

- 0 – 50 ERU
- 50 – 100 ERU
- 100 – 200 ERU
- 200 – 300 ERU
- > 300 ERU



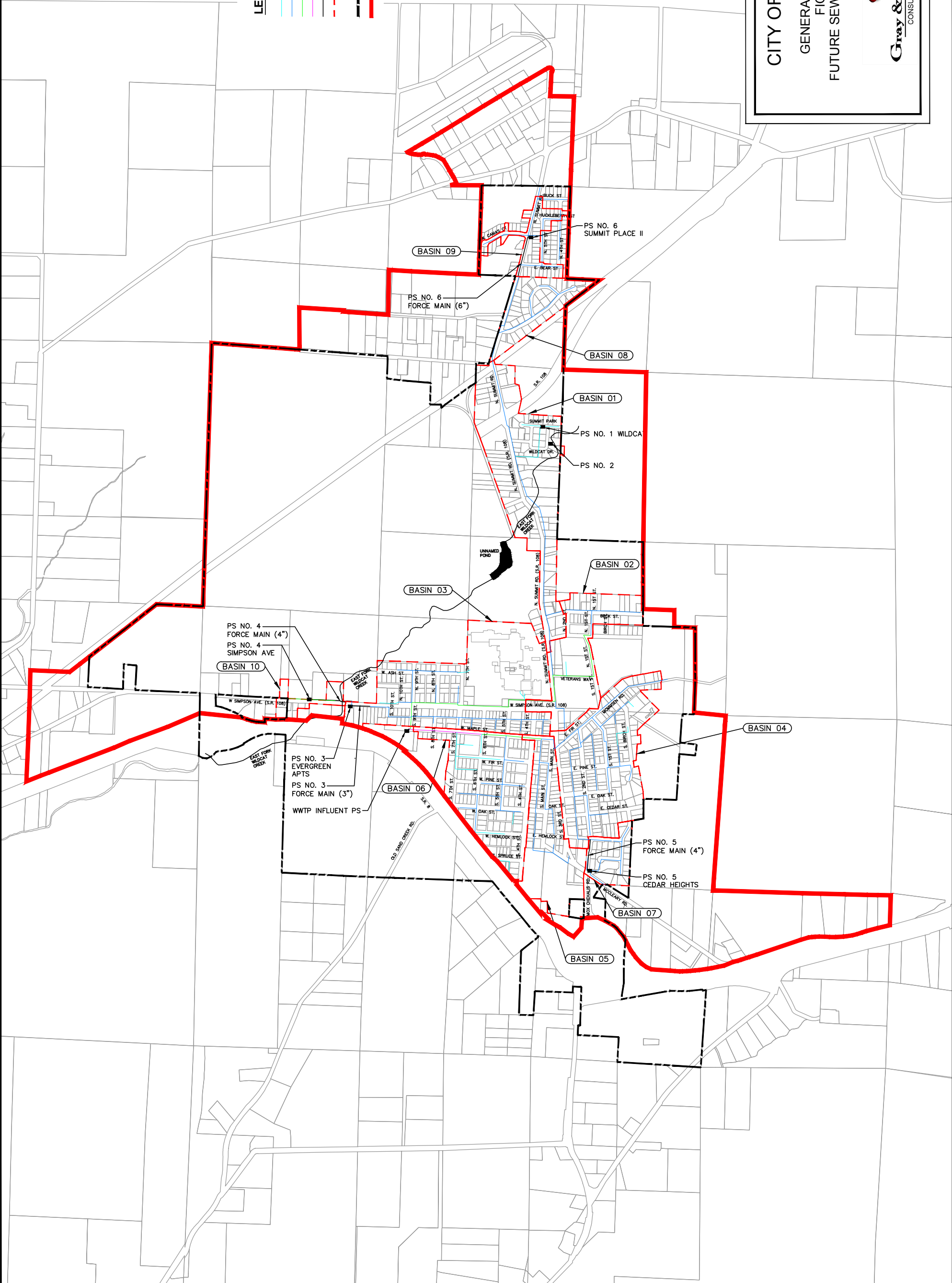
LEGEND:

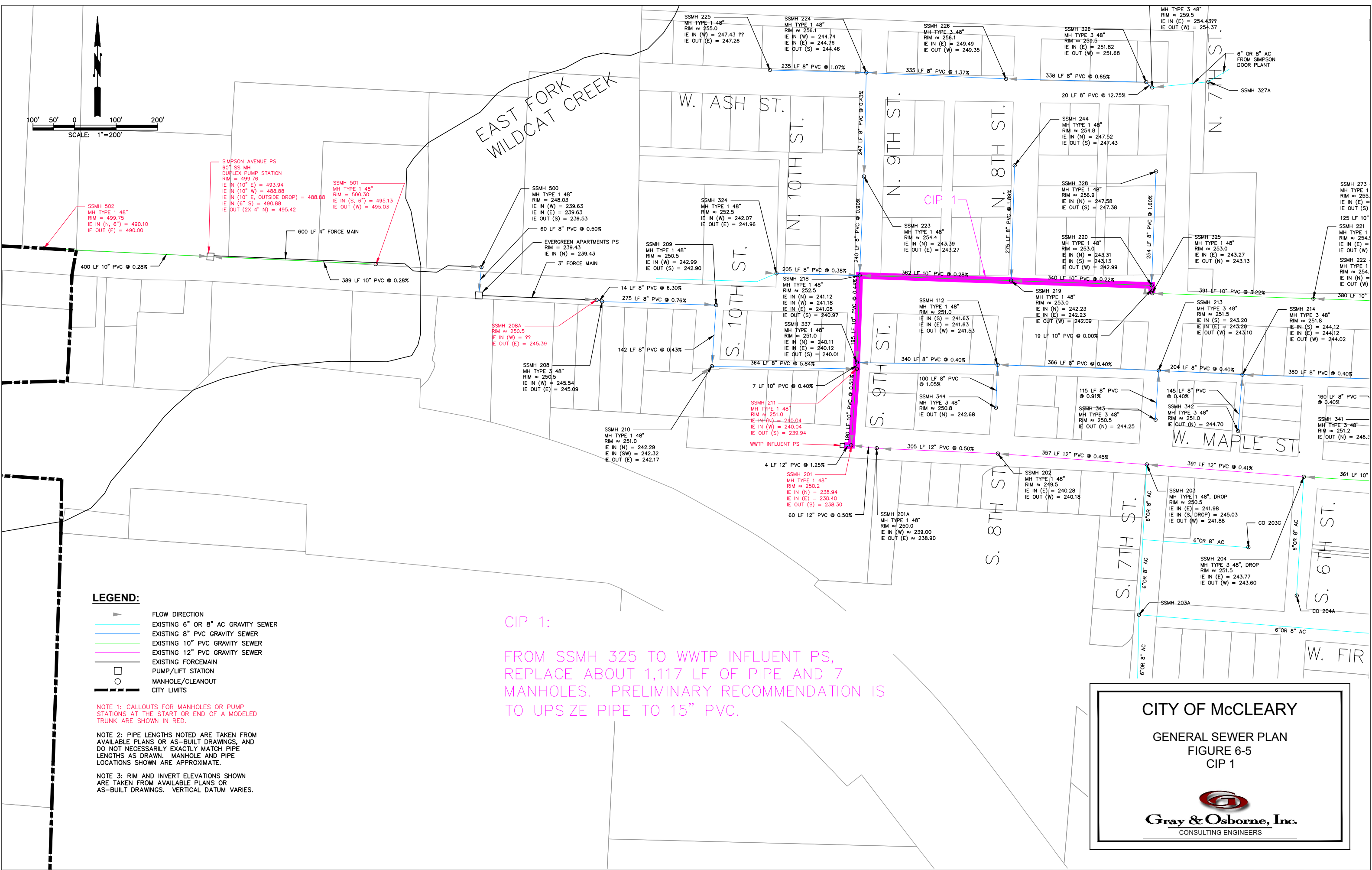
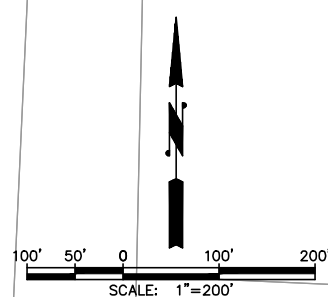
- EXISTING 6" OR 8" AC GRAVITY SEWER
- EXISTING 8" PVC GRAVITY SEWER
- EXISTING 10" PVC GRAVITY SEWER
- EXISTING 12" PVC GRAVITY SEWER
- EXISTING FORCEMAIN
- BASIN BOUNDARY LINE
- PUMP/LIFT STATION
- CITY LIMITS
- FUTURE SEWER SERVICE AREA

CITY OF MCCLEARY
 GENERAL SEWER PLAN
 FIGURE 6-4
 FUTURE SEWER SERVICE AREA



Gray & Osborne, Inc.
 CONSULTING ENGINEERS





- LEGEND:**
- ▶ FLOW DIRECTION
 - EXISTING 6" OR 8" AC GRAVITY SEWER
 - EXISTING 8" PVC GRAVITY SEWER
 - EXISTING 10" PVC GRAVITY SEWER
 - EXISTING 12" PVC GRAVITY SEWER
 - EXISTING FORCEMAIN
 - PUMP/LIFT STATION
 - MANHOLE/CLEANOUT
 - CITY LIMITS

NOTE 1: CALLOUTS FOR MANHOLES OR PUMP STATIONS AT THE START OR END OF A MODELED TRUNK ARE SHOWN IN RED.

NOTE 2: PIPE LENGTHS NOTED ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS, AND DO NOT NECESSARILY EXACTLY MATCH PIPE LENGTHS AS DRAWN. MANHOLE AND PIPE LOCATIONS SHOWN ARE APPROXIMATE.

NOTE 3: RIM AND INVERT ELEVATIONS SHOWN ARE TAKEN FROM AVAILABLE PLANS OR AS-BUILT DRAWINGS. VERTICAL DATUM VARIES.

CIP 1:
 FROM SSMH 325 TO WWTP INFLUENT PS,
 REPLACE ABOUT 1,117 LF OF PIPE AND 7
 MANHOLES. PRELIMINARY RECOMMENDATION IS
 TO UPSIZE PIPE TO 15" PVC.

CITY OF McCLEARY
 GENERAL SEWER PLAN
 FIGURE 6-5
 CIP 1

Gray & Osborne, Inc.
 CONSULTING ENGINEERS

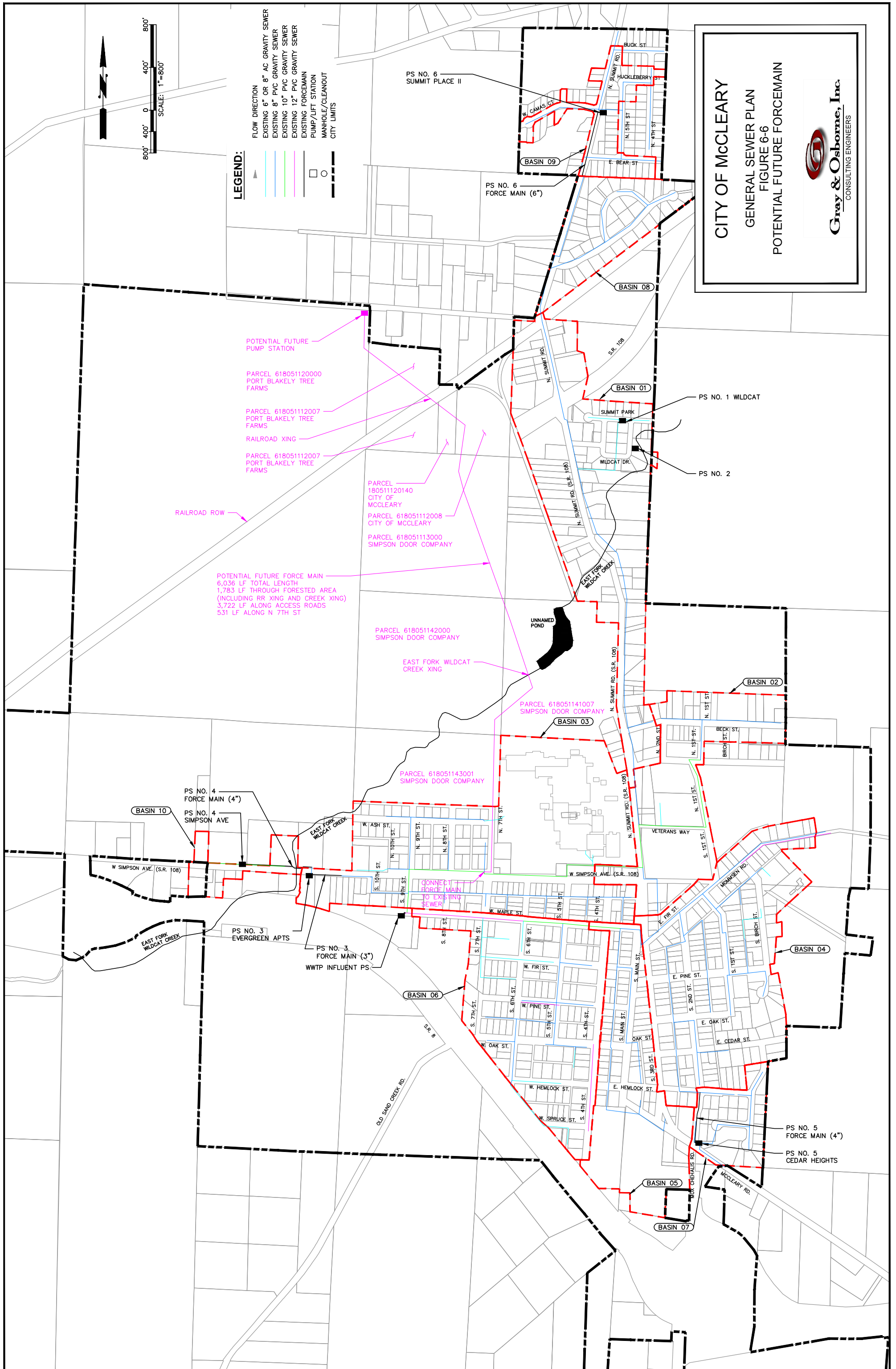


FIGURE 6-7: WWTP Daily Influent Flow vs. Cumulative 3-Day Rainfall

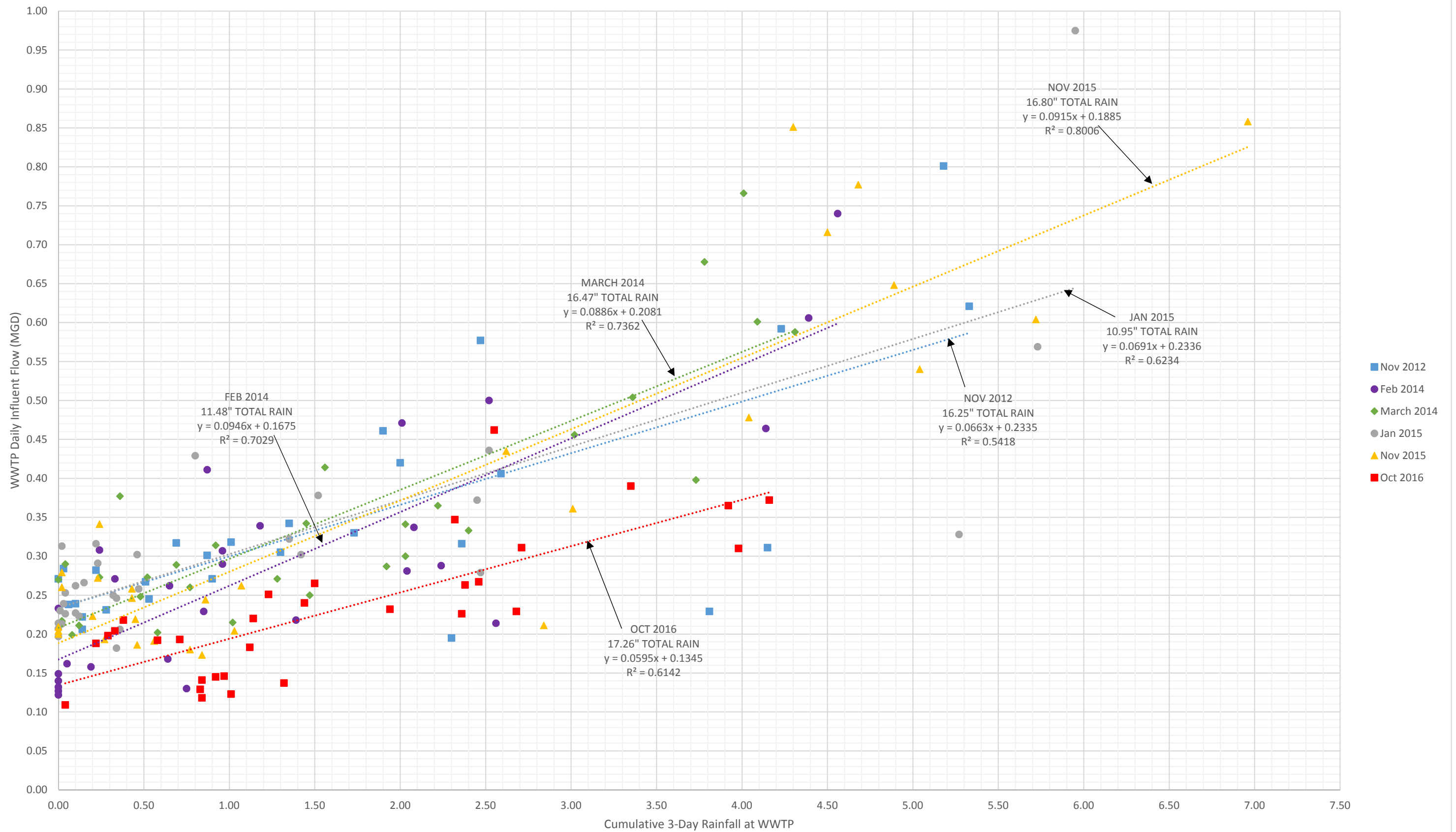


TABLE 6-1 - (continued)

Sewer Basin Flow Loading Analysis

Basin or Subbasin	Basin Area (acres)	ERU Count⁽¹⁾	Equivalent Population⁽²⁾	Peaking Factor⁽³⁾	Dry Weather Flow⁽⁴⁾ (gpm)	Wet Weather Flow⁽⁵⁾ (gpm)	Extreme Wet Weather Flow⁽⁶⁾ (gpm)
3S2 - Subbasin for Trunk 3B	7	16	40	4.3	7	12	18

- (1) ERUs are distributed to each basin proportionally to basin area, based on a total of 831 ERUs.
- (2) Equivalent population is used only for determining the peaking factor. 2.5 persons/ERU is assumed.
- (3) Peaking factor is determined using Figure C1-1 of the 2008 Ecology Publication *Criteria for Sewage Works Design*.
- (4) Dry weather flow is based on average dry weather flow at the WWTP over the study period (Nov 2012 – Oct 2016) of 0.119 MGD.
- (5) Wet weather flow is based on a typical wet weather flow at the WWTP of 0.5 MGD.
- (6) Extreme wet weather flow is based on the approximate peak flow recorded at the WWTP over the study period (Nov 2012 – Oct 2016) of 1.0 MGD.

FLOW LOADING MODEL

Peak flows as shown in Table 6-1 were loaded to model trunk lines as shown in Figure 6-1 based on the structure of the collection system. Flows from each basin were conservatively assumed to be loaded at the upstream end of trunks within that basin.

The resulting flow loading model is shown in Table 6-2.

TABLE 6-2

Flow Loading Model

Trunk or Pump Station	Flow From Basins	Dry Weather Flow⁽¹⁾ (gpm)	Wet Weather Flow⁽²⁾ (gpm)	Extreme Wet Weather Flow⁽³⁾ (gpm)
0A	ALL	337	602	949
1A	9+8+1	87	154	243
2A	9+8+1+2	119	212	334
3A	9+8+1+2+3	188	337	531
3B	10+3S1+3S2	20	34	53
3C	9+8+1+2+3+10	194	347	547
4A	4	54	96	152
4B	4	54	96	152
4C	4	54	96	152
4D	7+4	65	115	182
4E	7+4	65	115	182
5A	7+4	65	115	182
5B	5	33	58	91
5C	7+4+5	97	173	273
6A	7+4+5	97	173	273
6B	6	46	82	130
6C	7+4+5+6	143	255	403
8A	9+8	30	52	81
9A	9	11	20	31
10A	10	6	10	16
10B	10	6	10	16
10C	10	6	10	16
SUMMIT PLACE II PS	9	11	20	31
CEDAR HEIGHTS PS	7	11	19	30
SIMPSON AVE PS	10	6	10	16
EVERGREEN APTS PS	10+3S1	13	22	35

- (1) Dry weather flow is based on average dry weather flow at the WWTP over the study period (Nov 2012 – Oct 2016) of 0.119 MGD.
- (2) Wet weather flow is based on a typical wet weather flow at the WWTP of 0.5 MGD.
- (3) Extreme wet weather flow is based on the approximate peak flow recorded at the WWTP over the study period (Nov 2012 – Oct 2016) of 1.0 MGD.

TRUNK SEWER CAPACITY ANALYSIS

In order to determine the open channel flow capacity of each trunk sewer, Manning's equation was used. A Manning roughness of 0.013 was assumed for all pipes per guidelines in the Ecology publication *Criteria for Sewage Works Design*.

However, because some pipes in McCleary's collection system have flat or near-flat slopes, evaluating only open channel capacity does not always provide a realistic assessment of the collection system's true capacity. In order to overcome this difficulty, the capacity of each pipe was also calculated by treating it as a flat pressure pipe and accounting for entry and exit losses. A pressure differential between the upstream and downstream end of each pipe of 0.5 ft was allowed (corresponding to a 6-inch surcharge at the upstream end of the pipe). A Hazen Williams C value of 120 was used for these calculations.

The greater of these two values (open channel or flat pressure pipe with 6" of surcharge) was treated as the capacity of the pipe for the purpose of this analysis. If the open-channel capacity was greater (which it generally was except for very flat or very short pipes), then pressure pipe capacity was considered not applicable. The flow loading model shown in Table 6-2 was then applied and compared with the capacity of each modeled pipe. Where peak demand (represented by extreme wet weather flow) exceeded available capacity, the amount of surcharge was calculated by using the Hazen Williams equation subject to the same assumptions stated previously (i.e. flat pipe, C value of 120, entry and exit losses accounted for).

The final issue to be addressed in the modeling of the existing sewer system was the capacity remaining in each pipe segment and its attendant potential to support future development. In order to determine this, it was necessary to first determine the required capacity per new ERU. This value was determined similarly to the peak flows in each sewer basin as discussed above, but with a constant (conservative) peaking factor of 4.4 applied to average dry weather flows. By dividing the average dry weather flow at the WWTP of 0.119 MGD by the 831 ERUs connected to the sewer system, applying a peaking factor of 4.4, and summing the 0.881 MGD extreme wet weather I/I (also divided by 831 ERUs), a value of 1.17 gpm/ERU was arrived at. The difference between the capacity of each pipe segment and the peak demand on that pipe segment was then divided by 1.17 gpm/ERU in order to arrive at the remaining capacity available in each pipe segment (expressed in terms of available ERUs of pipe capacity).

Sensitivity analyses were also carried out that assumed reduced peak wet weather flow at the WWTP (0.7 or 0.8 MGD instead of 1.0 MGD) and reduced use of pipe capacity (use of 75 percent instead of 100 percent of pipe capacity). These analyses confirmed that the use of 100 percent of pipe capacity and an assumed peak flow of 1.0 MGD (as described above) were the appropriate assumptions for the purpose of evaluating available capacity in McCleary's sewer system.

Results of this capacity analysis are presented in Table 6-3 and Figures 6-2 through 6-10. The remaining ERU capacities noted on figures 6-2 through 6-10 are conservative and reflect manholes in non-surcharged conditions. Allowing manholes to surcharge along N. Summit Road, W. Simpson Avenue and S. 9th Street during wet weather flows would provide capacity for another 100 to 200 ERUs to be connected along that trunkline.

FUTURE CONDITIONS

As described in Chapter 3, a 0.5 percent annual growth rate is assumed for the City of McCleary. Applying this growth rate to the 2016 total of 831 ERUs connected to the sewer system results in a total of 87 new ERUs would be added by 2036.

Initially, the majority of this growth has already occurred within the Summit Place II neighborhood (Basin 9) at the northern edge of the City of McCleary. All the necessary infrastructure (roads, water, sewer, storm, electric) were already installed in this neighborhood and houses on the last 68 lots have been built over the last few years. Thus, for the purposes of this plan, the remaining 19 ERUs could occur anywhere within the future sewer service area.

The City's future sewer service area represents areas of potential sewer system expansion. Such expansion, if it occurs, will be made with due attention given to the capacity limitations of the existing sewer system (as documented in this chapter) and the WWTP (as documented in Chapter 5). The future sewer service area for the City of McCleary is shown in Figure 6-11.

COLLECTION SYSTEM CONCLUSIONS AND RECOMMENDATIONS

CIP C-1: UPSIZE PIPE ALONG SIMPSON AND 9TH FROM 7TH TO WWTP

As shown in Figures 6-2 and 6-10, the part of trunk sewer 3A between SSMH 220 and SSMH 218 is the only part of the City's downtown sewer collection system that (according to the model) currently lacks adequate capacity to convey extreme wet weather flows. The recommended solution is to upsize the pipe from 10" PVC to 15" PVC between SSMH 325 and the WWTP Influent Pump Station. This project involves the replacement of approximately 1,117 LF of pipe and up to 7 manholes. The use of smaller pipe (e.g., 12" PVC) at increased slopes should also be evaluated during design. In addition, the need for this project should be confirmed through field investigation and/or flow monitoring during wet weather events.

This project is illustrated in Figure 6-12 and will be discussed in greater detail in Chapter 7.

POTENTIAL FUTURE FORCE MAIN

Any other needed improvements to the collection system (apart from CIP 1) will depend on where development occurs and the nature and scale of that development. The trunk sewers on Summit Road in Basins 1 and 2 (Trunks Sewers 1A and 2A) lack sufficient capacity to accommodate any additional development without creating a surcharge condition in SSMHs 282 and 285 in Trunk Sewer 1A and SSMH 218 in Trunk Sewer 3A. Due to the length and required depth of Trunk Sewers 1A and 2A, as well as challenging geologic conditions which include solid rock underneath Summit Road, replacement of the 8" Trunk Sewer 1A and the 10" Trunk Sewer 2A with larger pipe is likely not practical.

If significant additional development does occur within the north or northwest parts of the City, flows from this additional development may need to be conveyed to the new 15" sewer described in CIP 1 by means of a force main which would utilize an existing north-south utility corridor which parallels Summit Road. One potential configuration for serving the northern portion of the future sewer service area is illustrated in Figure 6-13.

INFILTRATION AND INFLOW MONITORING

The peak day flow recorded at the WWTP over the DMR analysis period which formed the basis for this collection system analysis was approximately 1.0 MGD. This flow occurred on 1/6/2015, immediately following a storm in which 4.93" of rain was recorded at the WWTP over a 24-hour period. Review of NOAA precipitation frequency maps for Washington state indicate this was approximately a 25-year rain event. Other less severe rain events during the analysis period resulted in peak day flows at the WWTP of approximately 0.7 to 0.9 MGD.

During the summer of 2016, the City of McCleary made various repairs to its sewer system with the goal of reducing infiltration and inflow. These included fixing a cracked side sewer and repairing several failing manholes in the northern part of the City. Since these repairs were completed, the peak day flow recorded at the WWTP (during the analysis period through Oct 2016) was 0.462 MGD on 10/21/2016. October 2016 was a very wet month, with sustained periods of rain exceeding 1" per day and a monthly total of 17.26" of rain recorded at the WWTP. The amount of influent flow recorded on a given day at the City of McCleary WWTP appears to be most impacted by the amount of rain recorded on that day plus the two previous days ("cumulative 3-day rainfall"). When this cumulative 3-day rainfall is plotted against daily flows at the WWTP and a linear fit is applied to the data (Figure 6-7), it appears that for a given amount of rainfall plant flows increased less during October 2016 than in previous wet months prior to the City's completion of the I/I reduction work. This indicates that the City's I/I work over the summer of 2016 may have significantly reduced peak flows to the WWTP.

However, previous peak flow events typically occurred on or following days of 2.5" or more of rain, and no such days occurred in October 2016. Thus, it is too soon to say for certain whether peak flows to the WWTP have been significantly reduced. Further evaluation is needed following the occurrence of days with 2.5" or more of rain.

If peak flows to the plant have in fact been significantly reduced by the City's I/I reduction efforts, then the model results presented herein would be somewhat different (additional capacity would become available within the collection system). Also, if at some point information becomes available on the spatial distribution of I/I within the collection system such that the assumption used herein of uniformly distributed I/I can be revised, then additional capacity may become available within certain parts of the collection system (though available capacity may be reduced in other parts).

As described in Chapter 5, there were no WWTP influent flow or loading NPDES permit violations noted during the period analyzed. However, the City's focus should be on continuing its I/I reduction efforts within the collection system. As discussed above, there is some evidence that these efforts have already reduced peak flows to the WWTP. Continued efforts to reduce I/I into the collection system will reduce treatment costs and will further reduce the risk of influent flow/loading exceedances and/or overflows at the WWTP as the City continues to grow.

The City may wish to consider the purchase or rental of portable flow meters in order to assist with determining sources of I/I in the collection system. Deploying these meters at certain locations within the collection system in the winter or when very heavy rain is forecast will help the City determine what areas are most subject to I/I, and will allow refinement of the collection system model to better determine the system's available capacity to accommodate future development.

The City should monitor rainfall events and evaluate the peak flow at the WWTP immediately after a storm event that produces 2.5" or more rain. This information can be compared against the modeling data developed in this plan to assess how much additional sewer capacity is available to support future development as a direct result of the City's I/I removal efforts. This same method of analysis should be used after any significant I/I removal project the City accomplishes in the future. The increased capacity realized by these I/I projects will extend the need for future capital improvements further into the future, which allow capital improvement costs to be spread over a larger number of customers, reducing the need to increase sewer rates beyond an acceptable level. I/I reduction work increases capacity in both the gravity collection system and at the WWTP and should be considered one of the most cost effective methods to delay the need for future improvements as long as significant reductions can be easily found and fixed.

Financial considerations related to the above recommendations are discussed in Chapter 7.

CHAPTER 7

CAPITAL IMPROVEMENT PROGRAM AND FINANCING PLAN

This chapter summarizes the Capital Improvement Program (CIP) for the City of McCleary's wastewater utility and describes how the City can potentially finance its wastewater system improvements. The potential funding sources, financial status of the wastewater utility, the funding required to pay for the scheduled improvements, and potential the impact of wastewater improvements on wastewater rates are also presented in this chapter.

FINANCIAL STATUS OF EXISTING WASTEWATER UTILITY

CURRENT WASTEWATER RATES

Table 7-1 lists the City's current (2019) schedule of rates and charges.

TABLE 7-1

Monthly Wastewater Service Charges ⁽¹⁾

Customer Type	Monthly Base Charge	Volume Charge ⁽²⁾
Residential	\$90.20	None
Senior (65 or over)	\$64.20	None
Commercial	\$90.20	\$3.63 per CCF over 8.5 CCF ⁽²⁾
Industrial	Set by negotiations with business based on volume.	

(1) Source: City of McCleary Resolution 624.

(2) CCF = 100 cubic feet.

CURRENT CONNECTION FEES

The City has a Sewer Service Connection Fee that depends on whether the connection is within City limits. The current fee schedule is summarized in Table 7-2.

TABLE 7-2

Sewer Service Connection Fee ⁽¹⁾

Connection Location	Connection Fee
Inside City Limits	\$3,906
Outside City Limits	\$6,757

(1) Source: City of McCleary Resolution 580.

CAPITAL IMPROVEMENT PROGRAM

COLLECTION SYSTEM IMPROVEMENTS

C-1: Upsize Pipe along Simpson and 9th, from 7th to WWTP

Replace approximately 1,120 feet of 10-inch gravity sewer with new 15-inch gravity sewer pipe along with the seven associated SSMHs. The estimated cost of this improvement is \$867,000.

C-2: Infiltration and Inflow Analysis

As previously discussed in Chapter 6, the City should develop a method of evaluating the collection system for new sources of Infiltration and Inflow (I/I) sources. This could be done by using Figure 6-7 in Chapter 6 as a reference for past WWTP influent flow volumes and comparing future influent flows during large rainfall events to determine when significant increases occur. If increases cannot be attributed primarily to new sewer connections the City should consider renting or purchasing portable flow meters to be installed in key manholes during wet weather flows and determining which areas of the City appear to be contributing the most I/I.

An annual budget of \$4,000 per year would provide funds to begin performing the I/I analysis and cover rental of flow monitoring equipment as needed to isolate more specific areas to be evaluated for I/I reduction work.

C-3: Pump Station and SR 8 Force Main Crossing

To provide sewer service to proposed development on the south side of State Route 8 is anticipated to require a sewer pump station and force main across State Route 8. The improvements would be designed and constructed as developer projects. The force main is estimated to be 6-inch diameter and 1,600 lineal feet. The sewer pump station is anticipated to include a wet well, submersible pumps and an emergency generator.

Lift Station Maintenance and Replacement

Sewage lift stations should be evaluated during regular maintenance intervals with the understanding that pumps and electrical control components should be budgeted for replacement after approximately 20 years of operation. Lift Station 1 (Wildcat) which is one of the oldest lift stations in the collection system had pump and electrical component replacement performed in 2016.

WWTP SYSTEM IMPROVEMENTS

Three WWTP capital improvement projects were discussed in Chapter 5.

T-1: Electrical Panel Modifications

The WWTP main plant pump station control circuitry currently resides in the same electrical panel as the HVAC control circuitry. Modifications to these components, and the installation of a new electrical panel separating the pump station controls from the HVAC controls is recommended to reduce the potential of an HVAC system shutdown affecting the operation of the main plant pump station. This work is estimated at \$60,000.

T-2: Non Potable Water System

The WWTP currently uses potable water for washdown, spray bars and belt press operations. The average water use at the WWTP is approximately 0.74 MG (over 13 percent of the water supplied by the City's municipal wells). Installing a non-potable water system would significantly reduce the use of potable water at the WWTP, providing additional water capacity for future connections to the City's water system. The estimated cost for the installation of a non-potable water system at the WWTP is \$837,000.

Sludge Handling Modifications

The WWTP expansion in 2006 included a design for the installation of sludge drying equipment to produce class A sludge but the City was not able to secure adequate funding to procure and install the equipment. As mentioned in Chapter 5, the City currently uses alkaline stabilization to meet Class B biosolids. The haul costs and/or permitting requirements may increase costs (or eliminate the ability) of land application in the future which may create the need to evaluate other alternatives. City WWTP staff should evaluate this situation on an annual basis to determine when to start planning improvements.

During a biosolids evaluation performed in 2017 it was determined the old anaerobic digester could be retrofitted to provide a third aerobic digester at an estimated cost of approximately \$521,000. This project would allow the City to produce class B biosolids until the City’s population doubled in size (approximately 3,400 people). Once this has occurred the 2017 evaluation recommended the City install a rotary screw thickener for approximately \$430,000 (2017 dollars) which would provide class B biosolid capacity for a population 5 times greater than the current population. Given recent high levels of inflation, changes to the City’s biosolids handling practices, and changes to disposal and land application options, it is recommended that a biosolids management study be conducted within the next 5 years.

The City of McCleary wastewater utility CIP is summarized in Table 7-3. Items on the list are either categorized as collection system related work or treatment system related work. Planning level cost estimates and recommended execution year are also shown.

TABLE 7-3

Wastewater Utility Capital Improvement Program

No.	Description	Estimated Project Cost ⁽¹⁾	Year
Wastewater Collection System			
C-1	Upsizing Pipe along Simpson and 9 th (from 7 th to WWTP)	\$867,000	2023
C-2	Infiltration and Inflow Analysis	\$4,000	annually
C-3	Pump Station and SR 8 Crossing	\$1,752,000	Pending development
Wastewater Treatment System			
T-1	Electrical Panel Modifications	\$60,000	2022
T-2	Non Potable Water System	\$658,000	2036

(1) All costs shown are 2021 Dollars.

AVAILABLE CAPITAL PROJECT FUNDING SOURCES

This section describes several funding sources available to the City without reference to any specific project:

- Grants: USDA Rural Development (RD) in conjunction with an RD Loan
Community Development Block Grant funding through Clark
County/HUD (Woodland)

- Loans: Public Works Trust Fund (PWTF)
USDA Rural Development (RD)
Community Economic Revitalization Board (CERB)
State Revolving Fund (SRF) and Centennial Clean Water Act

Bonds: Revenue Bonds

Other: Utility Local Improvement Districts (ULID)
Developer Financing
System Development Charges
Grays Harbor County CDBG

USDA RURAL DEVELOPMENT

USDA Rural Development (RD) has a loan program that, under certain conditions, includes a limited grant program. Grant determination is based on a formula that incorporates existing utility debt service and existing utility service rates.

In addition, RD has a loan program for communities that cannot obtain funding by commercial means or through the sale of revenue bonds. The loan program provides long-term 30- to 40-year loans at interest rates that are based on federal rates and vary with the commercial market. Interest rates currently range from 2.75 percent to 5.0 percent and require a 1.1 debt coverage payment to a capital reserve. Currently RD's base rate for facilities projects for communities with a Median Household Income (MHI) over \$60,049 is 4 percent. The rate for low-moderate income communities was 2.75 percent as of January 2015. These rates are updated quarterly.

PUBLIC WORKS TRUST FUND

The Public Works Trust Fund (PWTF) is a revolving loan fund designed to help local governments finance needed public works projects through low-interest loans and technical assistance. The PWTF, established in 1985 by legislative action, offers loans substantially below market rates, payable over periods ranging up to 20 years.

Interest rates for 2014 Loans were 2.55 percent with a maximum loan amount of \$7 million with no match requirement. Rates can be reduced for communities recovering from a Federally-Declared Disaster. The useful life of the project determines the loan term, with a maximum term of 20 years. The Public Works Board has proposed \$1.2 million to fund future emergency projects. For the FY 2016 Loan Funding Round (May 2014 application period) the Board recommended funding 49 Construction Loans for a total of \$170 million. All funding is subject to approval by the Legislature.

To be eligible, an applicant must be a local government such as a City, Town, County, or special purpose utility district, and have a long-term plan for financing its public work needs. If the applicant is a Town, City, or County, it must adopt the 1/4 percent real estate excise tax dedicated to capital purposes. Eligible public works systems include streets and roads, bridges, storm sewers, sanitary sewers, and domestic water. Loans are presently offered only for purposes of repair, replacement, rehabilitation, reconstruction or improvement of existing service users. A recent change has now made projects

intended to meet reasonable growth (as detailed in a 20-year growth management plan) eligible for PWTF funding.

The funding program operates on an annual cycle for construction funds, with a May application date. The program also accepts preconstruction applications on a monthly basis when such funding is available. The PWTF Program operates at the discretion of the Governor and the Legislature. The fund has been re-allocated to the State's General Fund to cover budget deficits in recent years.

COMMUNITY ECONOMIC REVITALIZATION BOARD (CERB)

This low interest loan and grant program is managed by the Department of Trade and Economic Development. Funding is available for infrastructure that supports projects, which will result in specific private developments or expansions in manufacturing, and businesses that support the trading of goods and services outside the state's border. Funding is not available to support retail shopping developments or acquisition of real property. The projects must create or retain jobs. The average is one job per \$3,000 of CERB financing. The interest rate fluctuates with the state bond rate.

STATE REVOLVING FUND/CENTENNIAL CLEAN WATER ACT FUND

The Department of Ecology administers the State Revolving Fund (SRF) and Centennial Clean Water Act programs that provide low interest loans for water pollution control projects. Currently, Ecology provides is offering 20-year loans at 60 percent of the market rate for municipal bond market rate, or 2.4 percent interest rates, and 5-year loans at a 1.2 percent interest rate, or 30 percent of the municipal bond market rate. The primary program requirements are to have an approved facilities plan for treatment works and to demonstrate the ability to repay the loan through a dedicated funding source. The loans can be used to finance sewer system replacement for the elimination of excessive infiltration and inflow and for the construction of facilities with reserve capacities to accommodate flows corresponding to the 20-year projected growth in the service area. Land acquisition is not eligible for SRF funding. Recent changes in direction of the Public Works Trust Fund have made the SRF the primary source for water quality infrastructure funding. Centennial Clean Water Grants are available for facilities projects in Hardship Communities with a maximum grant award of \$5 million. Communities with a population less than 20,000 and a Median Household Income (MHI) less than 80 percent of the State MHI may qualify for Centennial Hardship Funding. Finally, projects qualifying for Green Project Reserve Funding may receive up to a 25 percent Forgivable Principal Loan (Grant) for approved activities in the following categories: Green Infrastructure, Energy Efficiency, Water Efficiency and Environmentally Innovative.

REVENUE BONDS

A common source of funds for construction of major utility improvements is the sale of revenue bonds. The tax-free bonds would be issued by the City of McCleary, and repaid and backed by sewer service rate revenue. In order to market revenue bonds, the issuer must typically show that its net wastewater utility operating income (gross income less expenses) is equal to or greater than a factor, typically 1.2 to 1.4, times the annual debt service on all par debt issued. This 1.4 factor is commonly referred to as the debt coverage factor and is applicable to revenue bonds sold on the commercial market. The required debt coverage factor may be specified in previous revenue bond ordinances. If not, it will be determined at the time of bond issue.

UTILITY LOCAL IMPROVEMENT DISTRICTS

Another potential source of funds for improvements comes through the formation of Utility Local Improvement Districts (ULIDs) involving an assessment made against properties benefited by the improvements. ULID bonds are further guaranteed by the revenues and are financed by issuance of revenue bonds.

ULID financing is frequently applied to sewer system extensions into areas previously not served. Typically, ULIDs are formed by a municipality at the written request (by petition) of the property owner within a specific area of the municipality. Upon receipt of a sufficient number of signatures on petitions, the local improvement area is defined. Each separate property in the ULID is assessed in accordance with the special benefits the property receives from the sewer system improvements.

There are several benefits to a municipality in selecting ULID financing. The assessment places a lien on the property and must be paid in full upon sale of the property. Further, property owners may pay the assessment immediately upon receipt reducing the costs financed by the ULID. The advantages of ULID financing, as opposed to rate financing, to the property owner include:

1. The ability to avoid interest costs by early payment of assessments.
2. Low-income senior citizens may be able to defer assessment payments until the property is sold.
3. Some Community Development Block Grant funds are available to property owners with incomes near or below the poverty level. Funds are available only to reduce assessments.

The major disadvantage to the ULID process is that there are significant costs associated with a ULID process (can be 30 percent of the amount of funds needing to be raised). Also, it may be politically difficult to approve the formation of the ULID. The ULID process may be stopped if owners of 40 percent of the property, within the ULID

boundary, protest its formation.

DEVELOPER FINANCING

Developers may fund the construction of extensions of the sewer system to property within new plats. The developer extensions are turned over to the wastewater system for operation and maintenance when completed.

It may be necessary, in some cases, to require the developer to construct facilities outside of the plat limits to provide service to the plat and/or larger pipelines for the ultimate development of the sewer system. The municipality may, by policy, reimburse the developer through direct outlay, latecomer charges, or reimbursement agreements for the additional cost of facilities, including increased size of pipelines over those required to serve the property under development.

Construction of any pipe in commercial or industrial areas that is larger than the size required to service the development may also be considered as an oversized line possibly eligible for compensation. Developer reimbursement (latecomer) agreements provide up to 15 years or more for developers to receive payment from other connections made to the developer-financed improvements.

SYSTEM ASSESSMENT CHARGES

The City of McCleary has system assessment charges to finance improvements of general benefit to the wastewater system, which are required to service future growth. System assessment fees are generally established as one-time charges assessed against new sewer customers as a way to recover a part of the cost of additional system capacity constructed for their use.

The fee is deposited in a reserve fund for construction projects. The intent is that all new system customers will pay an equitable share for existing and planned facilities of general benefit. Typical items of construction financed by the system development charge are wastewater treatment facilities, pump stations, interceptors, and other general improvements that benefit the entire system.

APPENDIX A

**MCCLEARY MUNICIPAL CODE SECTION 13.12 SEWER
SYSTEM**

[Back to Web Site](#)

City of McCleary Home of the Bear Festival

Article I Definitions

- [13.12.010 Acronyms.](#)
- [13.12.020. Definitions.](#)

13.12.010 Acronyms.

"AKART" means all known, available, and reasonable methods (prevention, control, and treatment) to prevent and control pollution of the waters of the state of Washington. (Chapter 90.48 RCW.) AKART shall represent the most current methodology that can be reasonably required for preventing, controlling, or abating the pollutants associated with a discharge. AKART shall be applied by all users of the city's utility systems. AKART includes best management practices and may be required by the director of public works for any discharge to the POTW.

"ANSI" means the American National Standards Institute.

"ASTM" means the American Society for Testing and Materials.

"BOD" means biochemical oxygen demand as defined in Section 13.12.020 of this chapter.

"DOE" or "Ecology" means the Washington State Department of Ecology.

"EPA" means U.S. Environmental Protection Agency.

"ERU" means equivalent residential unit as defined under "normal domestic waste" in Section 13.12.020 of this chapter.

"FIFRA" means the Federal Insecticide Fungicide Rodenticide Act.

"FOG" means fats, oils and grease.

"NPDES" means the National Pollutant Discharge Elimination System.

"POTW" means publicly owned treatment works as defined in Section 13.12.020 of this chapter.

"PVC" means polyvinyl chloride.

"RCRA" means the Resource Conservation and Recovery Act.

"RCW" means Revised Code of Washington.

"SDR" means standard dimension ratios.

"SIC" means Standard Industrial Classification.

"SNC" means significant noncompliance as defined in Section 13.12.020 of this chapter.

"STEP" means septic tank effluent pumping.

"TKN" means total kjeldahl nitrogen as defined in Section 13.12.020 of this chapter.

"TRY" means technical review criteria as defined in as Section 13.12.020 of this chapter.

"TSA" means the Toxic Substances Control Act currently codified in RCW 70.105D.

"T.S." means total suspended solids as defined in Section 13.12.020 of this chapter.

"SIDA" means the Solid Waste Disposal Act currently codified in RCW 70.95.

"WAC" means the Washington Administrative Code.(Ord. No. 785, § I, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.010 which pertained to definitions and derived from Ord. 399 Art. 1, 1980.

13.12.020. Definitions.

For the purposes of Chapter 13.12, the words set out in this section shall have the following meanings: Provided that, if any provision of federal or state law, whether statutory or rule or regulation is referenced and is hereafter succeeded or amended, the successor is to be deemed adopted by reference.

1. "Act" means the Federal Water Pollution Control Act, also known as the Clean Water Act (33 U.S.C. 1251 et seq.), as amended.
2. "Administrative authority" means the director of public works of the city of McCleary or his/her designee.
3. "Applicable pretreatment standards" means for any specified pollutant: the more stringent of the city of McCleary prohibitive standards, State of Washington pretreatment standards, or applicable National Categorical Pretreatment Standards.
4. "Authorized representative of the user":
 - a. If the user is a corporation: the president, secretary, treasurer, or a vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
 - b. If the user is a partnership or sole proprietorship: a general partner or proprietor, respectively; or
 - c. If the user is a federal, state, or local governmental facility: a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or his/her designee.
 - d. The individuals described in subsections (a) through (c) of this definition may designate another authorized representative if the authorization is in writing, the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company, and the written authorization is submitted to the city of McCleary.
5. "Biochemical oxygen demand (BOD)" means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedures during five days at twenty degrees centigrade, usually expressed as a concentration (milligrams per liter (mg/l)).
6. "Bypass" means the intentional diversion of waste streams from any portion of a user's treatment facility.
7. "Building drain" means that part of the lowest piping of a drainage system which receives the discharge from waste and other drainage pipes inside the walls of the building and conveys it to the

side sewer beginning three feet outside the building wall.

8. "Capital costs" means all costs incurred as a result of planning, permitting, design or construction of the wastewater collection or treatment facilities.
9. "Categorical pretreatment standard or categorical standard" means any regulation containing pollutant discharge limits promulgated by EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1317) which applies to a specific category of users and which appears in 40 CFR Chapter I, Subchapter N, Parts 405--471.
10. "Categorical user" means a user covered by one or more categorical standards as defined herein.
11. "McCleary urban service area" means the city of McCleary and that portion of Grays Harbor County outside the McCleary corporate city limits that will be served by the McCleary wastewater treatment facility, as shown upon the applicable facility plan as now in existence or hereinafter amended.
12. "City" means the city of McCleary.
13. "City council" means the governing body of the city of McCleary.
14. "Combined business-residential user" means any user whose plumbing facilities serve both a domestic user and a commercial user.
15. "Commercial user" means any nonresidential customer who engages in business activities or combination of business and residential activities if combined through a single-meter service.
16. "Cooling water" means water used for cooling purposes generated from any use, such as air conditioning, heat exchangers, cooling or refrigeration. For purposes of this chapter, such waters are further divided into two subcategories:
 - a. Uncontaminated: Water to which the only pollutant added is heat, which has no direct contact with any raw material, waste, intermediate, or final product, and which does not contain a level of contaminants detectably higher than that of the intake water.
 - b. Contaminated: Water likely to contain levels of pollutants detectably higher than intake water. This includes water contaminated through any means, including chemicals added for water treatment, corrosion inhibition, or biocides, or by direct contact with any process materials, products, and/or wastewater.
17. "Color" means the optical density at the visual wave length of maximum absorption, relative to distilled water. One hundred percent transmittance is equivalent to zero optical density.
18. "Composite sample" means the sample resulting from the combination of individual wastewater samples taken at selected intervals based on an increment of either flow or time.
19. "County" means Grays Harbor County or any other county in which the city's wastewater facilities are located.
20. "Customer" (synonymous with user) means each person, business, property owner, sewer user, or other entity separately billed by the city for the use or availability of public sewers in the McCleary sanitary sewer service area.
21. "Department of Ecology (DOE)" means the Washington State Department of Ecology or authorized representatives thereof.
22. "Director" shall mean the city's director of public works or his or her designee.
23. "Domestic user" means any person who contributes, causes, or allows the discharge of

wastewater into the city of McCleary's POTW that is similar in volume and/or chemical make-up to domestic wastewater. For comparison, the director of public works may assume discharges of domestic wastewater from dwelling units to be one hundred gallons containing 0.2 pounds (three hundred mg/l) of BOD, 0.2 pounds (three hundred mg/l) of TSS and 0.024 pounds (24 mg/l) of TKN per capita per day, or as identified in the design of the POTW.

24. "Domestic wastewater" means wastewater from residential kitchens, bathrooms, and laundries, and water borne human wastes from sanitary facilities in all other buildings, together with such groundwater infiltration or surface waters as may be present.

25. "Environmental Protection Agency (EPA)" means the U.S. Environmental Protection Agency or, where appropriate, the regional water management division director, or other duly authorized official of the agency.

26. "Explosion meter" means an electrical device that measures air quality for flammable or explosive gases.

27. "Facility plan" means a report titled "City of McCleary Wastewater Facility Plan," as the same now exists or is hereafter amended, and is on file with the office of the clerk-treasurer.

28. "Grab sample or discrete sample" means a sample which is taken from a waste stream on a one-time basis without regard to the flow in the waste stream and without consideration of time.

29. "Grinder pump systems" means low pressure sewer systems designed to grind or macerate the materials in the domestic sewage discharged from a residential or commercial/industrial customer and pump it to the existing gravity sanitary sewer system. The system includes all tanks, pumps, valves, control systems, and the low-pressure force main pipe conveying the sewage to the gravity sewer.

30. "Health department" means the Grays Harbor County Environmental Health Department.

31. "Income," as used herein, means gross income as defined in Section 61(a) of the Internal Revenue Code of 1954, as now in effect or hereafter amended, plus any and all social security retirement and/or disability payments, Veterans Administration retirement and/or disability payments, Railroad Retirement Board pension and/or disability payments, and payments received from any other public or private pension, retirement, profit-sharing and disability plans, and unemployment compensation.

32. "Indirect discharge or discharge" means the introduction of pollutants into the POTW from any non-domestic source regulated under Section 307(b), (c), or (d) of the Act. The discharge into the POTW is normally by means of pipes, conduits, pumping stations, force mains, constructed drainage ditches, surface water intercepting ditches, and all constructed devices and appliances appurtenant thereto.

33. "Industrial user" means any nonresidential user whose wastewater results from any process or activity conducted by that user. Such wastewater includes contaminated wash water or leachate from solid waste facilities that may enter the wastewater utility collection system.

34. "Industrial wastewater" means water or liquid-carried waste from any industry, manufacturing operation, trade, or business which includes any combination of processed wastewater, cooling water, contaminated storm water, contaminated leachates, or other waters such that the combined effluent differs in some way from purely domestic wastewater, or is subject to regulation under the Federal Categorical Pretreatment Standards, the State Waste Discharge Permit program, or this chapter.

35. "Interference" means the effect of a discharge or discharges on the POTW from one or more users which results in either: (a) inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal; (b) violation of any permit regulating the city of

McCleary wastewater discharge or sewage sludge; or (c) prevention of sewage sludge use or disposal in compliance with any applicable statutory or regulatory provision or permit issued thereunder. (Application sludge regulations shall include Section 405 of the Clean Water Act (33 USC 1345 et seq.); the Solid Waste Disposal Act (SWDA), including Title II commonly referred to as the Resource Conservation and Recovery Act (RCRA) (42 USC 6901 et seq.); state regulations contained in any state sludge management plan prepared pursuant to Subtitle D of the SWDA; the Clean Air Act (42 USC 7401 et seq.); the Toxic Substances Control Act (TSCA) (15 USC 2601 et seq.); and 40 CFR part 503).

36. "Low-income senior citizen user" shall be defined as sixty-two years of age or older and whose total income, including that of his or her spouse or cotenant, does not exceed the amount specified in RCW 84.36.381(5)(b)(ii) as the same now exists or is hereafter amended.

37. "Low-income totally disabled user" shall be defined as any person who has been classified as totally disabled by the Social Security Administration and whose total income does not exceed the amount provided for low-income senior citizen users.

38. "Maximum daily concentration allowed" means the maximum concentration of a pollutant allowed to be discharged at any time, determined from the analysis of any discrete or composited sample collected, independent of the industrial flow rate and the duration of the sampling event.

39. "Medical wastes" means isolation wastes, infectious agents, human blood and blood products or byproducts, pathological wastes, sharps, body parts, fomites, etiology agents, contaminated bedding, surgical wastes, potentially contaminated laboratory wastes, and dialysis wastes.

40. "National Pollutant Discharge Elimination System (NPDES)" as defined under Section 402 of the Clean Water Act.

41. "New source" means:

a. Any facility constructed after proposed categorical standards applicable to operations conducted at the facility where published, provided the facility is or may be a source of discharge to the POTW, and:

- i. The building, structure, facility, or installation is constructed at a site at which no other source is located; or

- ii. The new construction totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or

- iii. Construction of a new source as defined under this paragraph has commenced if the owner or operation has either: (1) begun, or caused to begin any placement, assembly, or installation of facilities or equipment; (2) begun, or caused to begin significant site preparation work including removal of existing facilities necessary for the emplacement of new source facilities or equipment; or (3) entered into a binding contractual obligation for the purchase of facilities or equipment for use in operation of a new source.

42. "New user" means any non-categorical user that plans to discharge a new source of wastewater to the city of McCleary's collection system after the effective date of the ordinance codified in this chapter. This discharge may be from either a new or an existing facility. Any person that buys an existing facility discharging non-domestic wastewater will be considered an "existing user" if no significant changes in facility operation are made and wastewater characteristics are not expected to change.

43. "Normal domestic waste" means one hundred gpd/c containing less than three hundred mg/l BOD and TSS, twenty-four mg/l TKN, one hundred mg/l FOG.

44. "Overhead" means all costs and expenses, including administrative overhead and equipment replacement, chargeable directly to the operation and maintenance of the wastewater treatment and collection facilities.

45. "Pass through" means a condition occurring when discharges from users, (singly or in combination), exit the POTW in quantities or concentrations which either: (1) cause a violation of any requirement of the city of McCleary's NPDES or state waste discharge permit; (2) cause an increase in the magnitude or duration of a violation; or (3) cause a violation of any water quality standard for waters in the state promulgated regulations including Chapter 173-201A WAC.
46. "Permittee" means any person or user issued a wastewater discharge permit by EPA, DOE, or the city.
47. "Person" means any individual, partnership, firm, company, corporation, association, joint stock company, trust, estate, any federal, state, or local governmental agency or entity, or any other entity whatsoever; or their legal representatives, agents or assigns.
48. "pH" means a measure of the acidity or alkalinity of a substance, expressed in standard units (technically defined as the logarithm of the reciprocal of the mass of hydrogen ions in gram moles per liter of solution).
49. "Pollutant" means any substance, either liquid, gaseous, solid, or radioactive, discharged to the POTW which, if discharged directly, would alter the chemical, physical, thermal, biological, or radiological properties of waters of the state of Washington including pH, temperature, taste, color, turbidity, oxygen demand, toxicity or odor. This includes any discharge likely to create a nuisance or render such waters harmful, detrimental or injurious to any beneficial uses, terrestrial or aquatic life, or to public health, safety or welfare.
50. "Pollution prevention" means source reduction; protection of natural resources by conservation; or increased efficiency in the use of raw materials, energy, water, or other resources.
51. "Population equivalent" also referred to as "equivalent residential unit" (ERU) or "equivalent service unit" (ESU) means a measure of wastewater production equivalent to two and a half persons generating normal domestic waste, served by the wastewater treatment facilities.
52. "Population equivalent user factor" means the number of population equivalents assigned to each user for the purposes of calculating sewer service charges.
53. "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to (or in lieu of) introducing such pollutants into the POTW. This reduction or alteration can be obtained by physical, chemical, or biological processes; by process changes; or by other means (except by diluting the concentration of the pollutants unless allowed by an applicable pretreatment standard).
54. "Pretreatment requirements" means any substantive or procedural local, state, or federal requirement related to pretreatment developed under Chapter 90.48 RCW and/or Sections 307 and 402 of the Clean Water Act or this chapter.
55. "Pretreatment standards" means any pollutant discharge limitations including categorical standards, state standards, and limits set forth in Chapter 13.12 of this code applicable to the discharge of non-domestic wastes to the POTW. The term shall also include the prohibited discharge standards of Chapter 13.12, WAC 173-216-060, and 40 CFR Part 403.5.
56. "Prohibited discharge standards or prohibited discharges" means absolute prohibitions against the discharge of certain substances; these prohibitions appear in Section 13.12.280.
57. "Public sewer" means a common sewer directly controlled by public authority.
58. "Publicly owned treatment works (POTW)" means a treatment works, as defined by Section 212 of the Act (33 USC 1292), which is owned by the city of McCleary. This definition includes any devices or systems used in the collection, storage, treatment, recycling, and reclamation of sewage or industrial wastewater and any conveyances which convey wastes to a wastewater treatment plant.

59. "Septage" means the liquid and solid material pumped from a septic tank, cesspool, or similar domestic sewage treatment system. This includes liquids and solids from domestic holding tanks, chemical toilets, campers, and trailers, when these systems are cleaned or maintained.
60. "Sewage or wastewater" means water-carried human wastes or a combination of water-carried wastes from residences, business buildings, institutions, and industrial establishments, together with such ground, surface, storm, or other waters as may be present.
61. "Sewer" means any pipe, conduit, ditch, or other device used to collect and transport sewage.
62. "Sewer service charges" includes all charges billed to a particular user.
63. "Side sewer" means that part of the horizontal piping of a drainage system which extends from the end of the building drain and which receives the discharge of the building drain and conveys it to a public sewer, private sewer or individual sewage disposal system.
64. "Significant industrial user":
- a. A user subject to categorical pretreatment standards; or
 - b. A user that:
 - i. Discharges an average of twenty-five thousand gallons per day or more of processed wastewater to the POTW (excluding sanitary, non-contact cooling, and boiler blowdown wastewater); or
 - ii. Contributes a processed waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or
 - iii. Is designated as such by the DOE with input from the city of McCleary on the basis that it, alone or in conjunction with other sources, has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement.
 - c. Upon a finding that a user meeting the criteria in subsection (a) of this definition has no reasonable potential for adversely affecting the POTW's operation or for violating any applicable pretreatment standard or requirement, the DOE may at any time, on its own initiative or in response to a petition received from a user or the City of McCleary, and in accordance with procedures in 40 CFR 403.8(f)(6) determine that such user should not be considered a significant industrial user.
65. "Significant noncompliance (SNC)" shall refer to a violation or pattern of violation of one of the following natures:
- a. Chronic violations of wastewater discharge limits, defined here as those in which sixty-six percent or more of all wastewater measurements taken during a six-month period exceed the daily maximum limit or average limit for the same pollutant parameter by any amount;
 - b. Technical review criteria (TRC) violations, defined herein as those in which thirty-three percent or more of all wastewater measurements taken for each pollutant parameter during a six-month period equal or exceed the product of the daily maximum limit or the average limit multiplied by the applicable TRC (1.4 for BOD, TSS, fats, oils and grease, and 1.2 for all other pollutants except pH);
 - c. Any other discharge violation the City of McCleary believes has caused, alone or in combination with other discharges, interference or pass through (including endangering the health of the City of McCleary personnel or the general public);
 - d. Any discharge of pollutants that has caused imminent endangerment to human health, welfare or to the environment, or has resulted in the city of McCleary's exercise of its

emergency authority to halt or prevent such a discharge;

e. Failure to meet, within ninety days after the scheduled date, a compliance schedule milestone contained in a wastewater discharge permit or enforcement order for starting construction, completing construction, or attaining final compliance;

f. Failure to provide within thirty days after the due date, any required reports, including baseline monitoring reports, periodic self-monitoring reports, and reports on compliance with compliance schedules;

g. Failure to accurately report noncompliance; or

h. Any other violation(s) which the administrative authority determines will adversely affect the operation or implementation of the local pretreatment program.

66. "Slug load" means any pollutant released in a discharge at a flow rate or concentration which could violate this chapter, or any discharge of a non-routine, episodic nature such as an accidental spill or a non-customary batch discharge.

67. "Standard Industrial Classification (SIC) Code" means a classification pursuant to the "Standard Industrial Classification Manual" issued by the United States Office of Management and Budget.

68. "State" means the state of Washington.

69. "STEP system" means septic tank effluent pumping sewer systems consisting of a liquid/solids separation tank with a pumping system discharging liquid into the gravity sewer system.

70. "Storm water" means any flow occurring during or following any form of natural precipitation, and resulting from such precipitation, including snowmelt.

71. "Total kjeldahl nitrogen (TKN)" means the total of organic compounds, i.e., amino acids, proteins, etc. (human waste). The TKN measures the combined amount of organic nitrogen and the amount of ammonia in a given sample.

72. "Total suspended solids (TSS)" means the total suspended matter that floats on the surface of, or is suspended in, water, wastewater, or other liquids, and which is removable by laboratory filtering.

73. "Toxic pollutant" means one or a combination of the pollutants listed as toxic in regulations promulgated by EPA under Section 307 (33 USC 1317) of the Act.

74. "Treatment plant effluent" means the discharge from the city of McCleary POTW.

75. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with applicable treatment standards because of factors beyond the reasonable control of the user. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

76. "User or industrial user" means any non-domestic source of wastewater discharged to the POTW. This excludes domestic users as defined herein.

77. "Wastewater." See "Sewage."

78. "Wastewater discharge permit (industrial wastewater discharge permit, discharge permit)" means an authorization or equivalent control document issued by the DOE to users discharging wastewater to the POTW. The permit may contain appropriate pretreatment standards and requirements as set forth in this chapter.

79. "Wastewater treatment facilities" means the City of McCleary wastewater treatment plant and outfall and all facilities designed for the collection and transmission of sewage to the plant.

80. "Wastewater utility" means the entity reporting to the director of public works, which is responsible for the operation, maintenance, upgrade and improvement of the wastewater collection and treatment system of the city.

(Ord. No. 785, § II, 10-10-2012)

Editors Note: Ord. No. 772, § VI(6.1.C), adopted June 22, 2011, repealed the former § 13.12.020 which pertained to deposit of objectionable waste and derived from Ord. 399 Art. 2 § 1, 1980.

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary Home of the Bear Festival

Article II Use of Public Sewers Required

- [13.12.030 Discharge of wastewater.](#)
- [13.12.040 Unauthorized wastewater disposal facilities.](#)
- [13.12.050 Connection to public sewer--General requirements.](#)

13.12.030 Discharge of wastewater.

It is unlawful to discharge to any natural outlet within the city, or in any area under the jurisdiction of the city, any wastewater or other polluted waters, except where suitable treatment has been provided in accordance with subsequent provisions of this chapter.

(Ord. 399 Art. 2 § 2, 1980)

13.12.040 Unauthorized wastewater disposal facilities.

Except as hereinafter provided, it is unlawful to construct or maintain any privy, privy vault, septic tank, cesspool, or other facility intended or used for the disposal of wastewater.

(Ord. 399 Art. 2 § 3, 1980)

13.12.050 Connection to public sewer--General requirements.

The owner of all houses, building, or properties used for human occupancy, employment, recreation, or other purposes, situated within the city and abutting on any street, alley or right-of-way in which there is now located a public sanitary or combined sewer of the city, is required, at the owner's expense, to connect any toilets or waste receptacle facilities directly with the proper public sewer in accordance with the provisions of this chapter, within ninety days after date of official notice to do so, provided that said public sewer is within two hundred feet (sixty-one meters) of the building line.

(Ord. 399 Art. 2 § 4, 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary Home of the Bear Festival

Article III Private Wastewater Disposal

- [13.12.060 Private system required when.](#)
- [13.12.070 Permit required before start of construction.](#)
- [13.12.080 Requirements for permit issuance.](#)
- [13.12.090 Connection provisions.](#)
- [13.12.100 Operation and maintenance of facilities.](#)
- [13.12.110 Additional requirements.](#)

13.12.060 Private system required when.

Where a public sanitary or combined sewer is not available under the provisions of Article II, Section 13.12.050, the building sewer shall be connected to a private wastewater disposal system complying with the provisions of this article.

(Ord. 399 Art. 3 § 1, 1980)

13.12.070 Permit required before start of construction.

Before commencement of construction of a private wastewater disposal system, the owner shall first obtain a written permit from the Grays Harbor Health Department. The owner shall abide by all the rules and regulations of the city and the health department regarding the placement, construction, operation and maintenance of such private wastewater disposal system.

(Ord. 399 Art. 3 § 2, 1980)

(Ord. No. 785, § VIII, 10-10-2012)

13.12.080 Requirements for permit issuance.

No permit shall be issued for any private wastewater disposal system employing subsurface soil absorption facilities where the area of the lot is less than twelve thousand five hundred square feet. No septic tank or cesspool shall be permitted to discharge to any natural outlet.

(Ord. 399 Art. 3 § 3, 1980)

13.12.090 Connection provisions.

At such time as a public sewer becomes available to a property served by a private wastewater disposal system, as provided in Article III, Section 13.12.080, a direct connection shall be made to the public sewer within ninety days in compliance with this chapter, and any septic tanks, cesspools, and similar private, wastewater disposal facilities shall be cleaned of sludge and filled with suitable material.

(Ord. 399 Art. 3 § 4, 1980)

13.12.100 Operation and maintenance of facilities.

The owner(s) of private wastewater disposal systems shall operate and maintain the private wastewater disposal facilities in a sanitary manner at all times, at no expense to the city.

(Ord. 399 Art. 3 § 5, 1980)

13.12.110 Additional requirements.

No provision contained in this article shall be construed to interfere with any additional requirements that may be imposed by the health officer.

(Ord. 399 Art. 3 § 6, 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary

Home of the Bear Festival

Article IV Building Sewers and Connections

- [13.12.120 Permit required for connections.](#)
- [13.12.130 Permit--Classification--Application.](#)
- [13.12.140 Incidental expenses.](#)
- [13.12.150 Single connections.](#)
- [13.12.160 Old building sewers.](#)
- [13.12.170 Construction materials, specifications and methods.](#)
- [13.12.180 Elevation of sewer.](#)
- [13.12.190 Surface runoff--Connection approval required.](#)
- [13.12.200 Connection to public sewer--Testing and approval.](#)
- [13.12.210 Testing, inspection and supervision of installation.](#)
- [13.12.220 Excavations--Hazard protection requirements.](#)
- [13.12.230 Side sewer repairs--Time limit and extension.](#)
- [13.12.240 Notice of service availability--Charges.](#)
- [13.12.250 City authorized to make connection or side sewer repair when--
Issuance of warrant to collect payment.](#)
- [13.12.260 Alternative payment collection method.](#)
- [13.12.270 Sewer main extension outside city boundaries.](#)

13.12.120 Permit required for connections.

No unauthorized person(s) shall uncover, make any connections with or opening into, use, alter, or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the city's utility coordinator.

(Ord. 399 Art. 4 § 1, 1980)

13.12.130 Permit--Classification--Application.

There shall be two classes of building sewer permit: (a) for residential and commercial service, and (b) for service to establishments producing industrial wastes: Provided that, in the event that additional classes are created by other provisions of this code, if that situation exists, the application and administration shall be as provided by the applicable provision. In either case, the owner(s) or his agent shall make application on a special form furnished by the city. The permit application shall be supplemented by any plans, specifications, or any other information considered pertinent in the judgment of the utility coordinator. Such fees, including a permit and inspection fee, as may be established by resolution adopted by the council shall be paid to the city at the time the application is filed.

(Ord. 399 Art. 4 § 2, 1980)

(Ord. No. 785, § XI, 10-10-2012)

13.12.140 Incidental expenses.

All costs and expenses incidental to the installation and connection of the building sewer shall be borne by the owner(s). The owner(s) shall indemnify the city from any loss or damage that may directly or indirectly be occasioned by the installation of the building sewer.

(Ord. 399 Art. 4 § 3, 1980)

13.12.150 Single connections.

A separate and independent building sewer shall be provided for every building; except where one building stands at the rear of another on an interior lot and no private sewer is available or can be constructed to the rear building through an adjoining alley, court, yard, or driveway, the front building sewer may be extended to the rear building and the whole considered as one building sewer, but the city does not and will not assume any obligation or responsibility for damage caused by or resulting from any such single connection aforementioned.

(Ord. 399 Art. 4 § 4, 1980)

13.12.160 Old building sewers.

Old building sewers may be used in connection with new buildings only when they are found, on examination and test by the utility coordinator to meet all requirements of this chapter.

(Ord. 399 Art. 4 § 5, 1980)

13.12.170 Construction materials, specifications and methods.

The size, slope, alignment, materials of construction of a building sewer, and the methods to be used in excavating, placing of the pipe, jointing, testing, and backfilling the trench, shall all conform to the then applicable requirements of the building and plumbing code or other applicable standards, rules and regulations of the city, including but not limited to, the development standards.

(Ord. 742 § 17, 2007; Ord. 399 Art. 4 § 6, 1980)

13.12.180 Elevation of sewer.

Whenever possible, the building sewer shall be brought to the building at an elevation below the basement floor. In all buildings in which any building drain is too low to permit gravity flow to the public sewer, sanitary sewage carried by such building drain shall be lifted by an approved means and discharged to the building sewer.

(Ord. 399 Art. 4 § 7, 1980)

13.12.190 Surface runoff--Connection approval required.

No person(s) shall make connection of roof downspouts, foundation drains, areaway drains, or other sources of surface runoff or groundwater to a building sewer or building drain which in turn is connected directly or indirectly to a public sanitary sewer unless such connection is approved by the utility coordinator for purposes of disposal of polluted surface drainage.

(Ord. 399 Art. 4 § 8, 1980)

13.12.200 Connection to public sewer--Testing and approval.

The connection of the building sewer into the public sewer shall conform to the then applicable requirements of the building and plumbing code or other standards, rules and regulations of the city, including but not limited to, the development standards. All such connection shall be made gastight and watertight and verified by proper testing witnessed by authorized city personnel. Any deviation from the prescribed procedures and materials must be approved in writing by the utility coordinator before installation.

(Ord. 742 § 18, 2007; Ord. 399 Art. 4 § 9, 1980)

13.12.210 Testing, inspection and supervision of installation.

The applicant for the building sewer permit shall notify the utility coordinator when the building sewer is ready for inspection and connection to the public sewer. The connection and testing shall be made under the supervision of the utility coordinator or his representative.

(Ord. 399 Art. 4 § 10, 1980)

13.12.220 Excavations--Hazard protection requirements.

All excavations for building sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the city.

(Ord. 399 Art. 4 § 11, 1980)

13.12.230 Side sewer repairs--Time limit and extension.

Any needed repair to a side sewer shall be made within ninety days after the date of mailing or personal service of notice to the owner of the property served notifying such owner to make such repair. In the event of an emergency, the city may establish a shorter period of time for the repair to be made or, if the owner cannot be located or does not promptly make such repairs, the city may make the repairs under the procedure of Sections 13.12.250 and 13.12.260. Upon application by the owner claiming a justifiable hardship, the period may be extended an additional ninety days.

(Ord. 430 § 1, 1982; Ord. 399 (part), 1980)

13.12.240 Notice of service availability--Charges.

The city shall mail to the owner a notice that sewer service is available and all applicable service charges shall begin the first day of the month that begins ninety days after the mailing of such notice. Upon application by the owner claiming a justifiable hardship, the period may be extended an additional ninety days.

(Ord. 430 § 2, 1982; Ord. 399 (part), 1980)

13.12.250 City authorized to make connection or side sewer repair when--Issuance of warrant to collect payment.

If any such connection or ordered side sewer repair is not made within the time herein provided, the city engineer or such other employee of the city as the city council may hereafter designate, is authorized and directed to cause such connection or side sewer repair to be made and to file a statement of the cost thereof with the city clerk-treasurer, and thereupon a warrant shall be issued under the direction of the city council and drawn on the sewer fund of the city for the payment of such cost. Such amount, together with a penalty, shall be assessed against the property, and shall become a lien thereon as provided by RCW 35.67.200. Such total amount, when collected, shall be paid into the sewer fund.

(Ord. 430 § 3, 1982: Ord. 399 (part), 1980)

13.12.260 Alternative payment collection method.

Alternatively the city attorney may be authorized by the mayor and council to bring suit against the owner or other responsible person to compel said owner or responsible person to make the connection or repair required by Section 13.12.250, or to authorize the city to make the connection at the owner's cost, or for such other relief as may be appropriate. The suit may obligate the owner to pay the city's costs, disbursements and reasonable attorney's fees and the penalty authorized by RCW 35.67.190 and provided for herein. The city attorney may be authorized by the mayor and council to bring suit against the owner, or other responsible person to make the needed repair to a side sewer, or stub sewer, as provided in Sections 13.12.230 through 13.12.260, to authorize the city to make the repair at the expense of the owner or other responsible person, or for such other responsible person to pay the city's costs, disbursements and reasonable attorney's fees.

(Ord. 430 § 4, 1982: Ord. 399 (part), 1980)

13.12.270 Sewer main extension outside city boundaries.

Sewer main extension outside the city boundaries must be approved by the city council and the costs thereof will be charged against the requesting property owner, the requesting property owner being reimbursed by other adjoining property owners as their connections are made.

(Ord. 432 § 1, 1982: Ord. 399 (part), 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary

Home of the Bear Festival

Article V Use of the Public Sewers

- [13.12.280 Prohibitions.](#)
- [13.12.290 Pretreatment of fats, oils and grease required.](#)
- [13.12.300 Washing facilities, grease rack; pretreatment.](#)
- [13.12.310 Provisions relating to maintenance, inspection, and results of treatment failure.](#)
- [13.12.320 Authority to reject or set conditions on discharges.](#)
- [13.12.330 Authority to promulgate regulations.](#)
- [13.12.340 Maintenance of pretreatment or flow-equalizing facilities.](#)
- [13.12.350 Industrial waste observation, sampling and measurement.](#)
- [13.12.360 Information requirements for compliance determination.](#)
- [13.12.370 Standards for measurements and methods.](#)
- [13.12.380 Special agreements.](#)
- [13.12.390 Wilful damage to wastewater facilities prohibited.](#)

13.12.280 Prohibitions.

As to any user of the wastewater collection and treatment facilities of the city, the following prohibitions shall apply:

- A. General Prohibitions. No user shall introduce or cause to be introduced into the POTW any pollutant or wastewater which causes pass through or interference. These general prohibitions apply to all users of the POTW whether or not they are subject to categorical pretreatment standards or any other federal, state, or local pretreatment standards or requirements. (40 CFR 403.5(a) and WAC 173-216-060(2)(b)(I)).
- B. Specific Prohibitions. No user shall introduce or cause to be introduced into the POTW the following pollutants in any form (solid, liquid, or gaseous):
 1. Any pollutant which either alone or by interaction may create a fire or explosive hazard in the POTW, including, but not limited to, waste streams with a closed-cup flashpoint of less than one hundred forty degrees Fahrenheit (sixty degrees Celsius) using the test methods specified in 40 CFR 261.21 (40 CFR 403.5(b)(1)), or are capable of creating a public nuisance (WAC 173-216-060(2)(b)(ii)). This includes waste streams sufficient to create a public nuisance or a hazard to life, or to prevent entry into the sewers for maintenance or repair. At no time shall a waste stream cause two successive readings on an explosion meter to be more than five percent nor any single reading over ten percent of the lower explosive limit (LEL) of the meter at any point in the collection system or treatment works;
 2. Any pollutant which will cause corrosive structural damage to the POTW, but in no case discharges with a pH less than 6.0 or more than 9.0, or having any other corrosive property capable of causing damage or hazard to structures, equipment, or personnel of the POTW, unless the system is specifically designed to accommodate such discharge and the discharge is authorized by an applicable wastewater discharge permit (40 CFR 403.5(b)(2) and WAC 173-216-060(2)(b)(iv));
 3. Any solid or viscous substances including fats, oils, and greases in amounts which may

- cause obstruction to the flow in a POTW or other interference with the operation of the POTW (40CFR 403.5(b)(3) and WAC 173-216-060(2)(b)(vi));
4. Any discharge of pollutants, including oxygen-demanding pollutants (BOD, etc.), released at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, is sufficient to cause interference with the POTW (40 CFR 403.5(b)(4) and WAC 173-216-060(2)(b)(vi));
 5. Any waste stream having a temperature which will inhibit biological activity in the treatment plant resulting in interference, or cause worker health or safety problems in the collection system. In no case shall wastewater be discharged at a temperature which causes the temperature of the influent to the treatment plant to exceed one hundred four degrees Fahrenheit (forty degrees Celsius) unless the system is specifically designed to accommodate such a discharge, and the discharge is authorized by an applicable wastewater discharge permit (40 CFR 403.5(b)(5) and WAC 173-216-060(2)(b)(v));
 6. Any petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin, in amounts that will cause interference or pass through (40 CFR 403.5(b)(6)(ii));
 7. Any pollutants which result in the presence of toxic gases, vapors, or fumes within any portion of the POTW in a quantity that may cause acute worker health and safety problems (40 CFR 403.5(b)(7) and WAC 173-216-060(2)(b)(ii));
 8. Any trucked or hauled wastes, except at discharge points designated by the city and in compliance with all applicable city requirements and during specified hours (40 CFR 403.5(b)(8));
 9. Any noxious or malodorous liquids, gases, solids, or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance or a hazard to life, or to prevent entry into the sewers for maintenance or repair (WAC 173-216-060(2)(b)(ii));
 10. Any of the following discharges unless approved by the administrative authority under extraordinary circumstances such as the lack of direct discharge alternatives due to combined sewer service or need to augment sewage flows due to septic conditions (WAC 173-216-060(2)(b)(vii)):
 - a. Noncontact cooling water in significant volumes;
 - b. Storm water, and other direct inflow sources; or
 - c. Wastewater significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the POTW.
 11. Any dangerous or hazardous wastes as defined in Chapter 173-303 WAC, as amended, except as allowed in compliance with that regulation (WAC 173-216-060(1) and 40 CFR Part 261);
 12. Any substance which will cause the POTW to violate its NPDES, state waste discharge or other disposal system permits or causing, alone or in conjunction with other sources, the treatment plant's effluent to fail a toxicity test;
 13. Any substance which may cause the POTW's effluent or treatment residues, sludges, or scums to be unsuitable for reclamation and reuse or would interfere with the reclamation process or cause the POTW to be in noncompliance with sludge use or disposal criteria, guidelines or regulations developed pursuant to the federal, state, or local statues or regulations applicable to the sludge management method being used;
 14. Any discharge which imparts color which cannot be removed by the POTW's treatment process such as dye wastes and vegetable tanning solutions, which consequently impart color

to the treatment plant's effluent, thereby violating the city's NPDES permit. Color, in combination with turbidity, shall not cause the treatment plant effluent to reduce the depth of the compensation point for photosynthesis activity in the receiving waters by more than ten percent from the seasonably established norm for aquatic life;

15. Any discharge containing radioactive wastes or isotopes except as specifically approved by the administrative authority in compliance with applicable rate or federal regulations including WAC 246-221-190 "Disposal By Release Into Sanitary Sewerage Systems"; and meeting the concentration limits of WAC 246-221-290, Appendix A, Table I, Column 2; and WAC 246-221-300, Appendix B;

16. Any sludges, screenings, or other residues from the pretreatment of industrial wastes or from industrial processes;

17. Any medical wastes, except as specifically authorized by the administrative authority;

18. Any detergents, surface-active agents, or other substances in amounts which may cause excessive foaming in the POTW;

19. Any incompatible substance such as: grease, animal guts or tissues, paunch contents, manure, bones, hair, hides or fleshings, entrails, whole blood, feathers, ashes, cinders, sand, spent lime, stone or marble dusts, metal, glass, straw, shavings, grass clippings, rags, spent grains, spent hops, wastepaper, wood, plastics, gas, tar asphalt residues, residues from refining or processing of fuel or lubricating oil, mud, or glass grinding or polishing wastes, or any other organic or inorganic matter greater than one-half inch in any dimension;

20. Persistent pesticides and/or pesticides regulated by the Federal Insecticide Fungicide Rodenticide Act (FIFRA);

21. Any wastewater, which in the opinion of the administrative authority can cause harm either to the sewers, sewage treatment process, or equipment; have an adverse effect on the receiving stream; or can otherwise endanger life, limb, public property, or constitute a nuisance, unless allowed under a legal and binding agreement by the administrative authority (except that no waiver may be given to any categorical pretreatment standard).

C. Pollutants, substances, or wastewater prohibited by this section shall not be processed or stored in such a manner that they could be discharged to the POTW.

D. Every building, structure, or premise used or occupied by any sewer user where any commercial or industrial operations are conducted or permitted which result in the discharge into the sewer system of any products, waste products, or other substances, matter, or liquid in the manner and to the extent prohibited in this section shall be equipped with an adequate and suitable grease trap, filter, or other interception device installed in such a manner that the product, waste products, or other substances, materials, or liquid herein set forth will not flow into or be discharged into the sanitary sewer system. The grease trap, filter, or other interceptor shall be adequately maintained, readily accessible for inspection by the administrative authority at any time to ensure its proper operation, and is subject to the terms in Section 13.12.290.

E. The owner of any vehicle-washing facility shall install and maintain in a proper manner and at his own expense an approved sediment and oil trap located in the side sewer line. Records of proper cleaning and maintenance must be kept and made available to city inspectors.

(Ord. No. 785, § III, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.280 which pertained to discharge of unpolluted drainage--requirements for stormwater from limited areas and derived from Ord. 399 Art. 5 § 1, 1980.

13.12.290 Pretreatment of fats, oils and grease required.

A. Dischargers who operate newly constructed multiplex units or apartment complexes, restaurants, cafes, lunch counters, cafeterias, bars, or clubs; or hotels, hospitals, sanitariums, factories, churches or school kitchens; or other establishments that serve or prepare food where grease may be introduced to the sewer system shall have pretreatment facilities to prevent the discharge of fat waste, oil, or grease (FOG). Take-out food establishments or other establishments that prepare food, but do not cook in oil or grease, and who serve food only in disposable containers, may be exempted from this requirement, provided their discharges do not violate the general discharge prohibitions of this chapter. These pretreatment facilities must have grease interceptors installed in the waste line leading from sinks, drains, or other fixtures where grease may be discharged.

1. The grease interceptors must meet, at a minimum, the specifications of then applicable Plumbing Code adopted by the city. The administrative authority is authorized to adopt and publish additional criteria for grease interceptors.

2. Dischargers must maintain these facilities in a manner that will always prevent fat waste, oil, or grease from being carried into the sewer system. Fat waste, oil, or grease removed from such a facility shall not be disposed of in sanitary or storm sewers.

B. All existing restaurants, cafes, lunch counters, cafeterias, bars, clubs, hotels, hospitals, sanitariums, factories, churches, school kitchens, or other establishments that serve or prepare food where grease may be introduced to the sewer system which do not have a grease interceptor at the time of adoption of this chapter shall meet the requirements for grease, oil, and fats by installing a grease interceptor or provide documentation indicating the design for a grease interceptor has been prepared within six months of the effective date of this chapter. Failure to install a grease interceptor within twelve months shall result in penalties as outlined in Section 13.12.450 of this chapter. All grease removal systems must be approved by the administrative authority prior to installation.

(Ord. No. 785, § IV, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.290 which pertained to discharge of unpolluted drainage--general requirements and derived from Ord. 399 Art. 5 § 2, 1980.

13.12.300 Washing facilities, grease rack; pretreatment.

Dischargers who operate automatic and coin-operated laundries, car washes, filling stations, commercial garages, or similar businesses having any type of washing facilities or grease racks and any other dischargers producing grit, sand, oils, or other materials which have the potential of causing partial or complete obstruction of the building sewer or other areas in the sewer system shall install approved interceptors or tanks in accordance with the latest specifications adopted by the city such that excessive amounts of oil, sand, and inert solids are effectively prevented from entering the city sewer. Effective upon the effective date of this chapter, all new car washes shall be closed loop, no discharge systems. Proof of required operation and maintenance records must be made available for city inspectors.

(Ord. No. 785, § V, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.300 which pertained to prohibited discharges and derived from Ord. 399 Art. 5 § 3, 1980.

13.12.310 Provisions relating to maintenance, inspection, and results of treatment failure.

- A. All grease interceptors, oil/water separators, settling tanks, and grit traps shall be installed, maintained, and operated by the discharger at the discharger's sole expense. The installation shall be kept in continuous operation at all times, and shall be maintained to provide efficient operation.
- B. Cleaning must be performed by a service contractor qualified to perform such cleaning. All material removed shall be disposed of in accordance with all state and federal regulations. Certification of maintenance shall be made readily available to city-authorized personnel for review and inspection.
- C. Inspection and cleaning frequency of grease interceptors/traps may be established pursuant to a rule or regulation established by the administrative authority.
- D. If a failure to maintain settling tanks, grit traps, grease interceptors, or oil/water separators results in partial or complete blockage of the building sewer or other parts of the wastewater utility system, or adversely affects the treatment or transmission capabilities of the system, or requires excessive maintenance by the city, the discharger responsible for the facilities shall be subject to the remedies, including enforcement and penalties detailed in this chapter.
- E. Regular inspections will be conducted at no charge to the customer; however, re-inspections for systems not properly maintained will be charged a re-inspection fee in an amount established by written resolution of the council.

(Ord. No. 785, § VI, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.310 which pertained to limitations on certain discharges and derived from Ord. 399 Art. 5 § 4, 1980.

13.12.320 Authority to reject or set conditions on discharges.

If any waters or wastes are discharged or are proposed to be discharged to the public sewers, which waters contain the substances or possess the characteristics enumerated in Section 13.12.310, and which in the judgment of the city engineer may have a deleterious effect upon the wastewater facilities, processes, equipment or receiving waters, or which otherwise create a hazard to life or constitute a public nuisance, the city engineer may:

- A. Reject the wastes;
- B. Require pretreatment to an acceptable condition for discharge to the public sewers;
- C. Require control over the quantities and rates of discharge, and/or;
- D. Require payment to cover added cost of handling and treating the wastes not covered by existing taxes or sewer charges under Section 13.12.370.

When considering the above alternatives, the city engineer shall give consideration to the economic impact of each alternative on the discharger. If the city engineer permits the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the city engineer.

(Ord. 399 Art. 5 § 5, 1980)

13.12.330 Authority to promulgate regulations.

The director shall be and is hereby authorized to promulgate such written rules and regulations as may be deemed reasonably necessary and appropriate to implement and administer the provisions of this chapter. Prior to its effectiveness, any proposed rule or regulation shall be submitted to the city council and mayor for review. To the extent not disapproved, such rule or regulation shall go into effect upon the thirtieth day following the first council meeting at which they are presented to the mayor and council in a written form: Provided that the council specifically reserves to itself the right:

- A. To suspend such proposed rule or regulation;
- B. Authorize its immediate effectiveness; or
- C. Reject, modify, or supplement such proposed regulations.

(Ord. No. 785, § VII, 10-10-2012)

Editors Note: Ord. No. 785, § IX, adopted Oct. 10, 2012, repealed the former § 13.12.330 which pertained to separators and derived from Ord. 399 Art. 5 § 6, 1980.

13.12.340 Maintenance of pretreatment or flow-equalizing facilities.

Where pretreatment or flow-equalizing facilities are provided or required for any waters or wastes, they shall be maintained continuously in satisfactory and effective operation by the owner(s) at his expense.

(Ord. 399 Art. 5 § 7, 1980)

13.12.350 Industrial waste observation, sampling and measurement.

When required by the city engineer, the owner of any property serviced by a building sewer carrying industrial wastes shall install a suitable structure together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling, and measurement of the wastes. Such structure, when required, shall be accessibly and safely located and shall be constructed in accordance with plans approved by the city engineer. The structure shall be installed by the owner at his expense and shall be maintained by him so as to be safe and accessible at all times.

(Ord. 399 Art. 5 § 8, 1980)

13.12.360 Information requirements for compliance determination.

The utility coordinator and/or engineer may require a user of sewer services to provide information needed to determine compliance with this chapter. These requirements may include:

- A. Wastewaters discharge peak rate and volume over a specified time period;
- B. Chemical analyses of wastewaters;
- C. Information on raw materials, processes, and products affecting wastewater volume and quality;
- D. Quantity and disposition of specific liquid, sludge, oil, solvent, or other materials important to sewer use control;
- E. A plot plan of sewers of the user's property showing sewer and pretreatment facility location;
- F. Details of wastewater pretreatment facilities;

G. Details of systems to prevent and control the losses of materials through spills to the municipal sewer.

(Ord. 399 Art. 5 § 9, 1980)

13.12.370 Standards for measurements and methods.

All measurements, tests, and analyses of the characteristics of waters and wastes to which reference is made in this chapter shall be determined in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association. Sampling methods, location, times, durations, and frequencies are to be determined on an individual basis subject to approval by the city engineer.

(Ord. 399 Art. 5 § 10, 1980)

13.12.380 Special agreements.

No statement contained in this article shall be construed as preventing any special agreement or arrangement between the city and any industrial concern whereby an industrial waste of unusual strength or character may be accepted by the city for treatment.

(Ord. 399 Art. 5 § 11, 1980)

13.12.390 Wilful damage to wastewater facilities prohibited.

No person(s) shall maliciously, wilfully, or negligently break, damage, uncover, deface, or tamper with any structure, appurtenance or equipment which is a part of the wastewater facilities. Any person(s) violating this provision shall be subject to immediate arrest under a misdemeanor charge as provided for in 13.12.450.

(Ord. 399 Art. 6, 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary

Home of the Bear Festival

Article VI Powers and Authority of Inspectors

- [13.12.400 Inspection.](#)
- [13.12.410 Obtaining information concerning industrial processes.](#)
- [13.12.420 Observance of safety rules.](#)
- [13.12.430 Access to property.](#)

13.12.400 Inspection.

The utility coordinator and/or other duly authorized employees of the city bearing proper credentials and identification shall be permitted to enter all properties for the purposes of inspection, observation, measurement, sampling, and testing pertinent to discharge to the community system in accordance with the provisions of this chapter.

(Ord. 399 Art. 7 § 1, 1980)

13.12.410 Obtaining information concerning industrial processes.

The utility coordinator and/or other duly authorized employees are authorized to obtain information concerning industrial processes which have a direct bearing on the kind and source of discharge to the wastewater collection system. The industry may withhold information considered confidential, provided the industry can establish that the revelation to the public of the information in question will result in an advantage to competitors.

(Ord. 399 Art. 7 § 2, 1980)

13.12.420 Observance of safety rules.

While performing the necessary work on private properties, referred to in Section 13.12.400, the utility coordinator and/or duly authorized employees of the city shall observe all safety rules applicable to the promises established by the company, and the company shall be held harmless for injury or death to the city employees, and the city shall indemnify the company against loss or damage to its property by the city employees and against liability claims and demands for personal injury or property damage asserted against the company and growing out of the gauging and sampling operation, except as such may be caused by negligence or failure of the company to maintain safe conditions as required in Section 13.12.350.

(Ord. 399 Art. 7 § 3, 1980)

13.12.430 Access to property.

The utility coordinator and/or other duly authorized employees of the city bearing proper credentials and identification shall be permitted to enter all private properties through which the city holds a duly negotiated easement for the purposes of, but not limited to, inspection, observation, measurement, sampling, repair and maintenance of any portion of the wastewater facilities lying within said easement. All entry and subsequent work, if any, on said easement, shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved.

(Ord. 399 Art. 7 § 4, 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

[Back to Web Site](#)

City of McCleary Home of the Bear Festival

Article VII Violation and Penalties

- [13.12.440 Notice of violation.](#)
- [13.12.450 Violation a misdemeanor--Penalty.](#)
- [13.12.460 Liability for violation.](#)

13.12.440 Notice of violation.

Any person found to be violating any provision of this chapter except Section 13.12.390 shall be served by the city with written notice stating the nature of the violation and providing a reasonable time limit for the satisfactory correction thereof. The offender shall, within the period of time stated in such notice, permanently cease all violations.

(Ord. 399 Art. 8 § 1, 1980)

13.12.450 Violation a misdemeanor--Penalty.

Any person who shall continue any violation beyond the time limit provided for in Section 13.12.440 or violate any other provision of this chapter, shall be guilty of a misdemeanor, and upon conviction thereof shall be fined in an amount not exceeding five hundred dollars and/or a sentence of one hundred eighty days in jail, or any combination thereof for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

(Ord. 399 Art. 8 § 2, 1980)

13.12.460 Liability for violation.

Any person violating any of the provisions of this chapter shall become liable to the city for any expense, loss, or damage occasioned the city by reason of such violation.

(Ord. 399 Art. 8 § 3, 1980)

" In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, age, disability, religion, sex, and familial status. (Not all prohibited bases apply to all programs). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice), or (202) 720-6382 (TDD)."

APPENDIX B

CITY RESOLUTIONS RELATING TO SEWER SERVICE

RESOLUTION NO. 624

RESOLUTION RELATING TO RATES TO BE CHARGED FOR SEWER SERVICE; PROVIDING FOR A SPECIFIC METHOD FOR ANNUAL MODIFICATION; AND REPEALING RESOLUTION 546.

RECITALS

1. Pursuant to the applicable provisions of the Municipal Code, the Council is given the authority and responsibility to establish utility rates by resolution.

2. The Mayor and Council have been informed that since the implementation of the prior resolution, certain administrative inconsistencies in its application have been identified which are best resolved by adoption of updated rate schedules.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS BY THE CITY COUNCIL OF THE CITY OF McCLEARY, THE MAYOR CONCURRING:

SECTION I: Until modified as authorized by Section II, the following rates and charges shall continue to be applied for the use of and the furnishing of services of the sewer system of the City and shall be collected from the users thereof:

A. From each and every person or entity making use of the system:

1. For each residential user:
 - A. 65 years of age or older: \$53.10.
 - B. Under 65 years of age: \$74.90.

2. For all non-residential users: an amount which is the sum of the monthly fixed rate of \$74.90 and three dollars (\$03.00) or pro rated portion thereof rounded to the nearest penny for every one hundred (100) cubic feet or portion thereof of water consumed over 850 cubic feet.

B. The rates for any establishment not herein covered shall be negotiated between such establishment and the City. In such negotiations, the City shall, in establishing the rate, consider the volume of the effluent, the nature and contents of the effluent, and the demands placed upon the treatment capabilities of the City as a result of such characteristics, as well as such other factors as may be deemed reasonably appropriate.

C. All persons or entities connecting to the sewer system of the City shall pay in advance of connection to the sewer system a hook-up charge in accordance with the schedule set forth by the City by Resolution from time-to-time.

D. In the event that any customer of the system establishes to the satisfaction of the City Engineer that the rate should be so established, with the approval of the City

Council, the rate for such customer shall be established as follows:

1. By negotiation, taking into consideration the factors established in paragraph B of this Section, as well as such other factors as may be recommended to the Council by the City Engineer; or

2. Installing a sewer meter at the expense of the customer. The meter in question shall be the property of the City, but the customer shall be responsible for such repair or replacement costs as may from time-to-time exist. The rate established for such service shall be as established in Section I, Article A(2).

SECTION II:

2.1: Annual Adjustment Protocol: In recognition of the necessity of assuring that the rates established for this service remain consistent with the increase in costs and of the billing period utilized by the City utility, the rates set by Section I of this resolution shall be subject to adjustment as of December 16, 2011, and as of December 16th of each calendar year thereafter, including 2011. The adjustment shall be the greater of following:

(1) three percent (3%) or

(2) the monetary amount which is the result of the following calculation:

Methodology of Calculation of CPI Based Adjustment:

The then existing utility rate shall be multiplied by a figure established as the average of the Seattle-Tacoma-Bremerton Area Bi-Monthly Index CPI-U (June compared with June) and the US All City Average CPI-U for the same period. [Example: S-T-B Area Bi-monthly Index CPI-U is 3.5% and the US All City Average CPI-U for that period is 2.5%. The multiplier to be utilized is 3.0%. If the existing rate is \$4.00, the result would be an increase of \$00.12 for an adjusted rate of \$4.12.]

2.2. Principals of application:

A. The average for the CPI multiplier, if not an even 1/10th of a percent, shall be rounded upward to the nearest 1/10th of a percent.

B. Application of annual adjustment rate to classifications:

1. As to the base rate for any classification, the resulting product of the calculation carried out pursuant to §2.1 shall be rounded to the next highest 1/10th of a dollar, if the initial calculation does not so result.

2. As to the overage rate for any classification, the resulting product of the calculation carried out pursuant to §2.1 shall be rounded to the next highest 1/100th of a dollar, if the initial calculation does not so result.

SECTION III: Resolution 546 shall be and is hereby deemed repealed as of 12:01 a.m., January 15, 2011: PROVIDED THAT, such repeal shall not effect any billing or obligation for services received prior to that date under the terms of that resolution.

PASSED THIS 19th DAY OF JANUARY, 2011, by the City Council of the City of McCleary, and signed in authentication thereof this 26th day of January, 2011.

CITY OF McCLEARY:



D. GARY DENT, Mayor

ATTEST:



WENDY COLLINS, Clerk-Treasurer

APPROVED AS TO FORM:



DANIEL O. GLENN, City Attorney

RESOLUTION NO. 659

A RESOLUTION RELATING TO PUBLIC UTILITIES,
PROVIDING FOR A PERIOD TO ALLOW CERTAIN
UTILITY CUSTOMERS TO RECOMMENCE UTILITY
SERVICES WITHOUT PAYING THE FEES REQUIRED
UNDER SECTION V OF RESOLUTION 656.

R E C I T A L S:

1. The Council has adopted Resolution 656 establishing fees and protocols in relation to the connection to the City's water and sewer utilities.

2. Under Section V of that Resolution, fees were established in terms of services which had been left unconnected for six months or more.

3. City Staff have recommended that a "window" be authorized to allow the notification of the customers whose services fit within the provisions relating to the fees established by Section V and to allow them to reactivate or reconnect their services without payment of the amounts set forth in that section.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS BY THE CITY COUNCIL OF THE CITY OF McCLEARY, THE MAYOR SIGNING IN AUTHENTICATION THEREOF:

SECTION I: The reactivation and reconnection fees set forth in Section V, Resolution 656 shall be imposed as of

September 1, 2013 as to any utility connection which is not active as of that date: PROVIDED THAT, the calculation of the six month and five year periods for any service which is not reactivated or reconnected as of that date shall continue to be from the date of the last active service period.

SECTION II: To the extent not modified by the provisions of Section I of this resolution, all other provisions of Resolution 656 shall be confirmed as having become effective as of the date set forth in Resolution 656.

PASSED THIS 18th DAY OF JUNE, 2013, by the City Council of the City of McCleary, and signed in authentication thereof this 17th day of June, 2013.

CITY OF McCLEARY:


D. GARY DENT, Mayor

ATTEST:


WENDY COLLINS, Clerk-Treasurer

APPROVED AS TO FORM:


DANIEL O. GLENN, City Attorney

RESOLUTION NO. 686

**A RESOLUTION RELATING TO PUBLIC SERVICES;
ESTABLISHING AND CONFIRMING FEES IN RELATION
TO CONNECTION TO THE CITY'S UTILITY SYSTEMS;
REPEALING RESOLUTION 656; AND PROVIDING FOR
EFFECTIVE DATES.**

R E C I T A L S:

1. Pursuant to the applicable provisions of the Municipal Code, the Council and Mayor may set by written resolution fees and rates to be charged for specified City provided services and provide for certain mechanisms in relation to the adjustment thereof.

2. The fees and rates set in the following sections have been in place for some time. As a result of a review, it has been found appropriate to adjust those fees as indicated in the following sections. Pursuant to the provisions of that resolution, commencing as of January 1, 2017, the actual fee amount which is payable will be adjusted on an annual basis as required. The fees for 2016 are set forth in the following schedules.

NOW, THEREFORE, BE IT RESOLVED AS FOLLOWS BY THE CITY COUNCIL OF THE CITY OF McCLEARY, THE MAYOR SIGNING IN AUTHENTICATION THEREOF:

SECTION I: On and after the effective date of this resolution, the following overall connection fee (OCF) to be paid by a party seeking to obtain connection to the City's water and sewer utility shall be as set forth herein.

A. As to properties within the corporate limits of the City at the time of the submission of the request for connection, the following connection fees shall be required prior to connection to the utility in question.

1. Single family residence: As to a single family residence, a base overall connection fee, hereinafter referred to for convenience by the acronym BOCF, shall apply for a connection requiring service for no more than an equivalent residential unit (ERU):

a. As to a water connection, the sum of \$3,000.00.

b. As to a sewer connection, the sum of \$3,700.00.

2. Non-single-family water and sewer connections: As to such connections, the following provisions shall apply:

a. Multi-family: An overall connection fee (OCF) determined by multiplying the base overall connection fee (BOCF) for the connection requested by a figure representing the equivalent residential units, the applicable ERU figure being derived by application of the standards set forth in the applicable adopted planning document or plan.

b. Commercial Connections: The BOCF for the utility connection sought shall be applicable: PROVIDED THAT, in the event the City Administrator determines the utilization of the utility will exceed an ERU, the OCF shall be determined by the Administrator as a product of the BOCF multiplied by the ERU derived by application of the standards set forth in the applicable adopted planning document or plan.

c. Industrial: Shall be calculated and established by the Administrator based upon the BOCF of the utility connection sought multiplied by the number of ERU represented by the utilization for the applicant property derived by application of the standards set forth in the applicable adopted planning document or plan.

B. As to properties outside of the corporate limits at the time of the submission of the completed application, the following connection fees shall apply:

1. Single family residence: As to a single family residence, a base overall connection fee, hereinafter referred to for convenience by the acronym BOCF, shall apply for a connection requiring service for no more than an equivalent residential unit (ERU):

a. As to a water connection, the sum of \$3,700.00.

b. As to a sewer connection, the sum of \$6,400.00.

2. Non-single-family water and sewer connections: As to such connections, the following provisions shall apply:

a. Multi-family: An overall connection fee (OCF) determined by multiplying the base overall connection fee (BOCF) for the connection requested by a figure representing the equivalent residential units, the applicable ERU figure being derived by application of the standards set forth in the applicable adopted planning document or plan.

b. Commercial Connections: The BOCF for the utility connection sought shall be applicable: PROVIDED THAT, in the event the City Administrator determines the utilization of the utility will exceed an ERU, the OCF shall be determined by the Administrator as a product of the BOCF multiplied by the ERU derived by application of the standards set forth in the applicable adopted planning document or plan.

c. Industrial: Shall be calculated and established by the Administrator based upon the BOCF of the utility connection sought multiplied by the number of ERU represented by the utilization for the applicant property derived by application of the standards set forth in the applicable adopted planning document or plan.

SECTION II: Labor & material costs: The cost for the City's provision of the necessary labor and materials to achieve

the physical connection to the system shall be in addition to the fee set forth in Section I. These shall be such figures as are established in the schedule issued by the Director of Public Works, who is hereby authorized to establish and maintain such schedule. These schedules shall reflect the then existing current material costs and current City labor costs, as determined on the 1st day of January of each calendar year and subject to adjustment on the 1st day of July of each calendar year.

SECTION III: Changes in existing connections:

A. Subject to the responsibility to pay any fees established by subsection B (required as a result of more extensive use of the property or change of use), an applicant seeking service to a property which is being served as of the date of the application and/or has been served by the utility from which service is sought within the six months immediately preceding the date upon which application was filed shall not be required to pay the reactivation or closure fees authorized by Section 13.24.070 MMC.

B. The following provisions shall apply to an application which will either result (1) in a change of use through increased consumption, or (2) an increase in the number of residential, commercial, industrial, or business equivalency

units actually served by the particular utility connection as contrasted with existing use.

1. The City shall calculate the connection fee which would be charged if the applicant was seeking connection for the current actual utilization, as well as the connection fee which would be charged for the proposed use. The calculations shall be done as if the applicant was making a request for initial connection to the utility system. In the event that the figure for a proposed use exceeds the figure determined for the existing use, this differential shall be paid to the City.

2. Payment of the amount determined pursuant to this Section shall be required whether the increased use is [1] as a result of the replacement of an existing structure or structures with a new structure or new structures, [2] as the result of the remodeling of an existing structure or structures, [3] the placement of an additional structure upon the served property, or [4] any combination thereof.

C. For purposes of applicable Ordinances and Resolutions, a property shall be deemed to have been served or be being served by the utility in question so long as there is or has been, within the period established in Section I, an active account maintained with the City for which billings were rendered

as a result of the actual utilization upon the subject property of the utility in question.

SECTION IV: Adjustment:

4.1. To reflect the effect of inflation, commencing with the year 2017, the monetary figures established pursuant to the provisions of this resolution shall be increased, as of the date of the commencement of each calendar year, as follows.

The adjustment shall be the greater of (1) three percent (3%) or (2) the monetary amount which is the result of the following calculation:

A. Methodology of Calculation: The then existing connection fee multiplied by a figure established as the average of the Seattle-Tacoma-Bremerton Area Bi-Monthly Index CPI-U (June compared with June) and the US All City Average CPI-U for the same period. [Example: S-T-B Area Bi-monthly Index CPI-U is 3.5% and the US All City Average CPI-U for that period is 2.5%. The multiplier to be utilized is 3.0%.

B. Principals of application:

1. The average for the CPI multiplier, if not an even 1/10th of a percent, shall be rounded upward to the nearest 1/10th of a percent.

2. The resulting product of the calculation carried out pursuant to SA shall be rounded up or down to the nearest dollar.

4.2. The rates set in Section V shall be subject to the provisions providing for an annual adjustment.

SECTION V:

A. The fee to be paid for reactivation of a utility service shall be as follows [Service not active for more than six months and less than five years prior to date of application to recommence.]:

- | | |
|-------------------|----------|
| 1. Water Service: | \$200.00 |
| 2. Sewer Service: | \$250.00 |

B. The fee to be paid to recommence provision of utility service to a connection deemed to have been closed [Service not active for five years or more prior to date of application to recommence.]:


- | | |
|-------------------|----------|
| 1. Water Service: | \$525.00 |
| 2. Sewer Service: | \$650.00 |

SECTION VI: The provisions of this resolution, including rate structures, shall be effective as of 12:01 a.m. upon the day following adoption hereof: PROVIDED THAT, any completed application meeting the qualifications for submission to the City and on file in the Office of the Clerk-treasurer prior to adoption of this resolution shall be processed under existing provisions.

SECTION VII: Resolution 656 shall be repealed as of the effective date of this resolution: PROVIDED THAT, such repeal shall not effect any billing or obligation for services received prior to that date under the terms of that resolution: PROVIDED FURTHER THAT any application for service pending at the time of the effective date shall be subject to application of the connection fee rates set forth in this resolution.


PASSED THIS 11th DAY OF May, 2016, by the City Council of the City of McCleary, and signed in authentication thereof this 11th day of May, 2016.

CITY OF McCLEARY:




Brenda Orffer, Mayor Pro Tem
BRENT SCHILLER, Mayor

ATTEST:



WENDY COLLINS, Clerk-Treasurer

APPROVED AS TO FORM:



DANIEL O. GLENN, City Attorney

APPENDIX C

**SIMPSON DOOR COMPANY NPDES PERMIT AND FACT
SHEET**



Issuance Date: May 26, 2011
Effective Date: July 1, 2011
Expiration Date: June 30, 2016

STATE WASTE DISCHARGE PERMIT Number ST 6178

State of Washington
DEPARTMENT OF ECOLOGY
Southwest Regional Office

In compliance with the provisions of the
State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington, as amended,
and
the Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.,

Simpson Door Company
400 Simpson Avenue
McCleary, Washington 98557

<u>Facility Address:</u> Simpson Door Company 400 Simpson Ave McCleary, Washington 98557	<u>Discharge Location</u> Latitude: 47.056207 N Longitude: 123.26793 W
<u>Publicly Owned Treatment Works (POTW) Receiving Discharge:</u> City of McCleary, Wastewater Treatment Plant	
<u>Industry Type:</u> Millwork	<u>SIC Code:</u> 2431

is authorized to discharge wastewater in accordance with the special and general conditions which follow.

Steven G. Eberl, P.E.
Acting Southwest Region Manager
Water Quality Program
Washington State Department of Ecology

TABLE OF CONTENTS

SUMMARY OF PERMIT REPORT SUBMITTALS 4

SPECIAL CONDITIONS

S1. DISCHARGE LIMITS 5

S2. MONITORING REQUIREMENTS 6

 A. Wastewater Monitoring

 B. Sampling and Analytical Procedures

 C. Flow Measurement

 D. Laboratory Accreditation

S3. REPORTING AND RECORDKEEPING REQUIREMENTS 7

 A. Reporting

 B. Records Retention

 C. Recording of Results

 D. Additional Monitoring by the Permittee

 E. Reporting Permit Violations

 F. Other Reporting

 G. Maintaining a Copy of This Permit

 H. Dangerous Waste Discharge Notification

 I. Spill Notification

S4. OPERATION AND MAINTENANCE 11

 A. Bypass Procedures

S5. PROHIBITED DISCHARGES 13

 A. General Prohibitions

 B. Specific Prohibitions

 C. Prohibited Unless Approved

S6. DILUTION PROHIBITED 14

S7. APPLICATION FOR PERMIT RENEWAL 14

S8. SOLID WASTES 14

 A. Solid Waste Handling

 B. Leachate

 C. Solid Waste Control Plan

S9. NON-ROUTINE AND UNANTICIPATED DISCHARGES 14

S10. SPILL PLAN 15

GENERAL CONDITIONS 16

G1. SIGNATORY REQUIREMENTS 16

G2. RIGHT OF ENTRY 16

G3. PERMIT ACTIONS 17

G4. REPORTING A CAUSE FOR MODIFICATION 17

G5. PLAN REVIEW REQUIRED 17
G6. COMPLIANCE WITH OTHER LAWS AND STATUTES 17
G7. TRANSFER OF THIS PERMIT 17
G8. REDUCED PRODUCTION FOR COMPLIANCE 18
G9. REMOVED SUBSTANCES 18
G10. PAYMENT OF FEES 18
G11. PENALTIES FOR VIOLATING PERMIT CONDITIONS 18
G12. DUTY TO PROVIDE INFORMATION 18
G13. DUTY TO COMPLY 18

APPENDIX A 19

APPENDIX B –PRIORITY POLLUTANT LIST 27

SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S2.A	Priority Pollutant scan	1/permit cycle	January 1, 2015
S3.A.	Discharge Monitoring Report	Monthly	August 15, 2011
S3.E	Reporting Permit Violations	As necessary	
S3.F	Other Reporting	As necessary	
S4.A	Reporting Bypasses	As necessary	
S7.	Application for Permit Renewal	1/permit cycle	January 1, 2015
S8	Solid Waste Control Update	1/permit cycle	January 1, 2015
S10.	Spill Plan Update	1/Permit cycle	January 1, 2015
G1.	Notice of Change in Authorization	As necessary	
G4.	Permit Application for Substantive Changes to the Discharge	As necessary	
G5.	Engineering Report for Construction or Modification Activities	As necessary	
G7.	Notice of Permit Transfer	As necessary	

SPECIAL CONDITIONS

In this permit the word “must” denotes an action that is mandatory and is equivalent to the word “shall” used in previous permits.

S1. DISCHARGE LIMITS

All discharges and activities authorized by this permit must comply with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a concentration in excess of, that authorized by this permit violates the terms and conditions of this permit.

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge wastewater generated through the slicing, cutting, drying, conditioning, equipment wash-water and boiler blowdown to the city of McCleary’s sewer/wastewater treatment plant system subject to the following limits:

EFFLUENT LIMITS (slicing cutting, drying conditioning, equipment wash-water): Outfall 001		
Parameter	Average Monthly ^a	Maximum Daily ^b
Flow, GPD	Report	15,000
BOD ₅ , lbs/day	Report	0.0014 lbs/lbs of production
TSS, mg/L	Report	Report
Oil and Grease, mg/L	Report	Report
Temperature, °C	Report	65
pH	Daily minimum is equal to or greater than 6.0 and the daily maximum is less than or equal to 9.0.	
EFFLUENT LIMITS (Boiler Blowdown): Outfall 004		
Flow, GPD	3300	4100
Temperature, °C	65	65
pH	Daily minimum is equal to or greater than 5.5 and the daily maximum is less than or equal to 11.0.	
Total Suspended Solids (TSS)	N/A	Report
^a Average monthly effluent limit means the highest allowable average of daily discharges over a calendar month. To calculate the discharge value to compare to the limit, you add the value of each daily discharge measured during a calendar month and divide this sum by the total number of daily discharges measured.		
^b Maximum daily effluent limit means the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limits expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day. This does not apply to pH.		

S2. MONITORING REQUIREMENTS

A. Wastewater Monitoring

The Permittee must monitor the wastewater and production according to the following schedule (see Appendix A for analytical requirements):

Parameter	Units	Sampling Point	Sampling Frequency	Sample Type
Flow	GPD	Final Effluent	Continuous ¹	Metered
BOD ₅ ³	mg/L	Final Effluent	Monthly	Grab
TSS ⁴	mg/L	Final Effluent	Monthly/Quarterly	Grab
Oil and Grease ³	mg/L	Final Effluent	Monthly	Grab
pH	Standard Units	Final Effluent	Monthly	Grab
Temperature	°C	Final Effluent	Monthly	Grab
Priority Pollutants for outfall 001	µg/L	Final Effluent	4th quarter 2014 ²	Composite
¹ Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. Sampling must be taken monthly when continuous monitoring is not possible.				
² The 4 th quarter 2014 is defined as October 1 – December 31, 2014. Submit results by January 15, 2015.				
³ Monitoring is applicable to outfall 001 only				
⁴ The Permittee must monitor outfall 001 monthly and outfall 004 quarterly.				

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit must represent the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the water and wastewater monitoring requirements specified in this permit must conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 Code of Federal Regulations (CFR) Part 136 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (American Public Health Association), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Ecology).

C. Flow Measurement

The Permittee must:

1. Select and use appropriate flow measurement devices and methods consistent with accepted scientific practices.

2. Install, calibrate, and maintain these devices to ensure the accuracy of the measurements is consistent with the accepted industry standard and the manufacturer's recommendation for that type of device.
3. Use field measurement devices as directed by the manufacturer and do not use reagents beyond their expiration dates.
4. Calibrate these devices at the frequency recommended by the manufacturer.
5. Calibrate flow monitoring devices at a minimum frequency of at least one calibration per year.
6. Maintain calibration records for at least three years.

D. Laboratory Accreditation

The Permittee must ensure that all monitoring data required by Ecology is prepared by a laboratory registered or accredited under the provisions of chapter 173-50 Washington Administrative Code (WAC), *Accreditation of Environmental Laboratories*. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittee must monitor and report in accordance with the following conditions. The falsification of information submitted to Ecology constitutes a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. The Permittee must:

1. Submit monitoring results each month.
2. Summarize, report, and submit monitoring data obtained during each monitoring period on a Discharge Monitoring Report (DMR) form provided, or otherwise approved, by Ecology.
3. Submit DMR forms monthly whether or not the facility was discharging. If the facility did not discharge during a given monitoring period, submit the form as required with the words "NO DISCHARGE" entered in place of the monitoring results.
4. Ensure that DMR forms are postmarked or received by Ecology no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit.
5. Send report(s) to Ecology and the city of McCleary at the following addresses:

Water Quality Permit Coordinator
Department of Ecology
Southwest Regional Office
P.O. Box 47775
Olympia, WA 98504-7775

And

Nick Bird, Director of Public Works
City of McCleary
1205 West State Street
McCleary, WA 98557

All laboratory reports providing data for organic and metal parameters must include the following information: sampling date, sample location, date of analysis, parameter name, CAS number, analytical method/number, method detection limit (MDL), laboratory practical quantitation limit (PQL), reporting units, and concentration detected. Analytical results from samples sent to a contract laboratory must include information on the chain of custody, the analytical method, QA/QC results, and documentation of accreditation for the parameter.

B. Records Retention

The Permittee must retain records of all monitoring information for a minimum of three years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

C. Recording of Results

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place and time of sampling.
2. The individual who performed the sampling or measurement.
3. The dates the analyses were performed.
4. The individual who performed the analyses.
5. The analytical techniques or methods used.
6. The results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by Condition S2 of this permit, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the Permittee's DMR.

E. Reporting Permit Violations

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

- a. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.

- b. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within 30 days of sampling.

1. Immediate Reporting

Any failure of the wastewater treatment system, any collection system overflows, or any plant bypass discharging to a waterbody used as a source of drinking water must be reported immediately to Ecology and the Department of Health (DOH), Drinking Water Program at the numbers listed below:

Ecology-SWRO	360-407-6300
DOH, Drinking Water Program	360-521-0323 (business hours) 360-481-4901 (after business hours)

2. Twenty-four-hour Reporting

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone numbers listed above, within 24-hours from the time the Permittee becomes aware of any of the following circumstances:

- a. Any noncompliance that may endanger health or the environment, unless previously reported under subpart 1, above.
- b. Any unanticipated **bypass** that exceeds any effluent limit in the permit (See Part S4.A., “Bypass Procedures”).
- c. Any **upset** that exceeds any effluent limit in the permit. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- d. Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.
- e. Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limit in the permit.

3. Report within Five Days

The Permittee must also provide a written submission within five days of the time that the Permittee becomes aware of any event required to be reported under subparts 1 or 2, above. The written submission must contain:

- a. A description of the noncompliance and its cause.
- b. The period of noncompliance, including exact dates and times.
- c. The estimated time noncompliance is expected to continue if it has not been corrected.
- d. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- e. If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

4. Waiver of Written Reports

Ecology may waive the written report required in subpart 3, above, on a case-by-case basis upon request if a timely oral report has been received.

5. Report Submittal

The Permittee must submit reports to the address listed in S3.

F. Other Reporting

The Permittee must report all instances of noncompliance, not required to be reported immediately or within 24-hours, at the time that monitoring reports for S3.A ("Reporting") are submitted. The reports must contain the information listed in paragraph E.3, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

The Permittee **must** report a spill of oil or hazardous materials in accordance with the requirements of Revised Code of Washington (RCW) 90.56.280. You can obtain further instructions at the following website:

<http://www.ecy.wa.gov/programs/spills/other/reportaspill.htm> .

G. Maintaining a Copy of This Permit

The Permittee must keep a copy of this permit at the facility and make it available upon request to Ecology inspectors.

H. Dangerous Waste Discharge Notification

The Permittee must notify the publicly owned treatment works (POTW) and Ecology in writing of the intent to discharge into the POTW any substance designated as a dangerous waste in accordance with the provisions of WAC 173-303-070. This notification must be made at least 90 days prior to the date that discharge is proposed to be initiated.

I. Spill Notification

The Permittee must notify the POTW immediately (as soon as discovered) of all discharges that could cause problems to the POTW, such as process spills and unauthorized discharges (including slug discharges).

S4. OPERATION AND MAINTENANCE

The Permittee must, at all times, properly operate and maintain all facilities or systems of treatment and control (and related appurtenances) which are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

A. Bypass Procedures

This permit prohibits a bypass which is the intentional diversion of waste streams from any portion of a treatment facility. Ecology may take enforcement action against a Permittee for a bypass unless one of the following circumstances (1, 2, or 3) applies.

1. Bypass is for essential maintenance without the potential to cause violation of permit limits or conditions.

This permit authorizes a bypass if it allows for essential maintenance and does not have the potential to cause violations of limits or other conditions of this permit, or adversely impact public health as determined by Ecology prior to the bypass. The Permittee must submit prior notice, if possible, at least ten days before the date of the bypass.

2. Bypass is unavoidable, unanticipated, and results in noncompliance with the conditions of this permit.

This permit authorizes such a bypass only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. No feasible alternatives to the bypass exist, such as:
 - The use of auxiliary treatment facilities.
 - Retention of untreated wastes.
 - Stopping production.
 - Maintenance during normal periods of equipment downtime, but not if the Permittee should have installed adequate backup equipment in the exercise of reasonable engineering judgment to prevent a bypass.

- Transport of untreated wastes to another treatment facility.
- c. The Permittee has properly notified Ecology of the bypass as required in Condition S3.E of this permit.
3. If bypass is anticipated and has the potential to result in noncompliance of this permit.
- a. The Permittee must notify Ecology at least 30 days before the planned date of bypass. The notice must contain:
- A description of the bypass and its cause.
 - An analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing.
 - A cost-effectiveness analysis of alternatives including comparative resource damage assessment.
 - The minimum and maximum duration of bypass under each alternative.
 - A recommendation as to the preferred alternative for conducting the bypass.
 - The projected date of bypass initiation.
 - A statement of compliance with SEPA.
 - A request for modification of water quality standards as provided for in WAC 173-201A-410, if an exceedance of any water quality standard is anticipated.
 - Details of the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.
- b. For probable construction bypasses, the Permittee must notify Ecology of the need to bypass as early in the planning process as possible. The Permittee must consider the analysis required above during preparation of the engineering report or facilities plan and plans and specifications and must include these to the extent practical. In cases where the Permittee determines the probable need to bypass early, the Permittee must continue to analyze conditions up to and including the construction period in an effort to minimize or eliminate the bypass.
- c. Ecology will consider the following prior to issuing an administrative order for this type of bypass:
- If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.
 - If feasible alternatives to bypass exist, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of

equipment down time, or transport of untreated wastes to another treatment facility.

- If the Permittee planned and scheduled the bypass to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve or deny the request. Ecology will give the public an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Ecology will approve a request to bypass by issuing an administrative order under RCW 90.48.120.

S5. PROHIBITED DISCHARGES

A. General Prohibitions

The Permittee must not introduce into the POTW pollutant(s) which cause Pass Through or Interference.

B. Specific Prohibitions

In addition, the following must not be introduced into the POTW:

1. Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, waste streams with a closed cup flashpoint of less than 60°C (140°F) using the test methods specified in 40 CFR 261.21.
2. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference.
3. Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
4. Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40°C (104°F) unless the approval authority, upon request of the POTW, approves alternative temperature limits.
5. Petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.
6. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
7. Any trucked or hauled pollutants, except at discharge points designated by the POTW.
8. Pollutants which will cause corrosive structural damage to the POTW.

C. Prohibited Unless Approved

1. Any of the following discharges are prohibited unless approved by Ecology under extraordinary circumstances (such as a lack of direct discharge alternatives due to combined sewer service or a need to augment sewage flows due to septic conditions):

- a. Noncontact cooling water in significant volumes.
 - b. Storm water and other direct inflow sources.
 - c. Wastewaters significantly affecting system hydraulic loading, which do not require treatment or would not be afforded a significant degree of treatment by the system.
2. Unless specifically authorized in this permit, the discharge of dangerous wastes as defined in Chapter 173-303 WAC, is prohibited.

S6. DILUTION PROHIBITED

The Permittee must not dilute the wastewater discharge with stormwater or increase the use of potable water, process water, noncontact cooling water, or, in any way, attempt to dilute an effluent as a partial or complete substitute for adequate treatment to achieve compliance with the limits contained in this permit.

S7. APPLICATION FOR PERMIT RENEWAL

The Permittee must submit an application for renewal of this permit by **January 1, 2015**

S8. SOLID WASTES

A. Solid Waste Handling

The Permittee must handle and dispose of all solid waste material in such a manner as to prevent its entry into state ground or surface water.

B. Leachate

The Permittee must not allow leachate from its solid waste material to enter state waters without providing all known, available and reasonable methods of treatment, nor allow such leachate to cause violations of the State Surface Water Quality Standards, Chapter 173-201A WAC, or the State Ground Water Quality Standards, Chapter 173-200 WAC. The Permittee must apply for a permit or permit modification as may be required for such discharges to state ground or surface waters.

C. Solid Waste Control Plan

The Permittee must submit all proposed revisions or modifications to the solid waste control plan to Ecology for review and approval at least 30 days prior to implementation. Once approved, the Permittee must comply with any plan modifications. The Permittee must submit an update of the solid waste control plan by **January 1, 2015**.

S9. NON-ROUTINE AND UNANTICIPATED DISCHARGES

Beginning on the effective date of this permit, the Permittee is authorized to discharge non-routine wastewater on a case-by-case basis if approved by Ecology and the POTW. Prior to any such discharge, the Permittee must contact Ecology and the POTW and **at a minimum** provide the following information:

1. The proposed discharge location.

2. The nature of the activity that will generate the discharge.
3. Any alternatives to the discharge, such as reuse, storage or recycling of the water.
4. The total volume of water it expects to discharge.
5. The results of the chemical analysis of the water. The Permittee must analyze the water for all constituents limited for the discharge. The analysis must also include hardness, any metals that are limited by water quality standards, and any other parameter deemed necessary by Ecology. All discharges must comply with the effluent limits as established in Condition S1. of this permit, water quality standards, and any other limits imposed by Ecology.
6. The date of the proposed discharge.
7. The expected rate of discharge discharged, in gallons per minute.

The discharge cannot proceed until Ecology has reviewed the information provided and has authorized the discharge by letter to the Permittee or by an Administrative Order.

S10. SPILL PLAN

The Permittee must:

1. Submit to Ecology an update to the existing Spill Control Plan by **January 1, 2015**.
2. Review the plan at least annually and update the Spill Plan as needed.
3. Send changes to the plan to Ecology.
4. Follow the plan and any supplements throughout the term of the permit.

The spill control plan must include the following:

1. A list of all oil and petroleum products and other materials used and/or stored on site, which when spilled, or otherwise released into the environment, designate as Dangerous (DW) or Extremely Hazardous Waste (EHW) by the procedures set forth in WAC 173-303-070. Include other materials used and/or stored on site which may become pollutants or cause pollution upon reaching state's waters.
2. A description of preventive measures and facilities (including an overall facility plot showing drainage patterns) which prevent, contain, or treat spills of these materials.
3. A description of the reporting system the Permittee will use to alert responsible managers and legal authorities in the event of a spill.
4. A description of operator training to implement the plan.

The Permittee may submit plans and manuals required by 40 CFR Part 112, contingency plans required by Chapter 173-303 WAC, or other plans required by other agencies which meet the intent of this section.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to Ecology must be signed as follows:

- A. All permit applications must be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by Ecology must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by the person described above and is submitted to Ecology at the time of authorization, and
 - 2. The authorization specifies either a named individual or any individual occupying a named position.
- C. Changes to authorization. If an authorization under paragraph B.2. above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section must make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

G2. RIGHT OF ENTRY

Representatives of Ecology must have the right to enter at all reasonable times in or upon any property, public or private, for the purpose of inspecting and investigating conditions relating to the pollution or the possible pollution of any waters of the state. Reasonable time includes normal business hours; hours during which production, treatment, or discharge occurs; or times when Ecology suspects a violation requiring immediate inspection. Representatives of Ecology must be allowed to have access to, and copy at reasonable cost, any records required to be kept under terms and conditions of the permit; to inspect any monitoring equipment or method required in the permit; and to sample the discharge, waste treatment processes, or internal waste streams.

G3. PERMIT ACTIONS

This permit is subject to modification, suspension, or termination, in whole or in part by Ecology for any of the following causes:

- A. Violation of any permit term or condition;
- B. Obtaining a permit by misrepresentation or failure to disclose all relevant facts;
- C. A material change in quantity or type of waste disposal;
- D. A material change in the condition of the waters of the state; or
- E. Nonpayment of fees assessed pursuant to RCW 90.48.465.

Ecology may also modify this permit, including the schedule of compliance or other conditions, if the agency determines good and valid cause exists, including promulgation or revisions of regulations or new information.

G4. REPORTING A CAUSE FOR MODIFICATION

The Permittee must submit a new application, or a supplement to the previous application, along with required engineering plans and reports, whenever a new or increased discharge or change in the nature of the discharge is anticipated which is not specifically authorized by this permit. This application must be submitted at least 60 days prior to any proposed changes. Submission of this application does not relieve the Permittee of the duty to comply with the existing permit until it is modified or reissued.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications must be submitted to Ecology for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications should be submitted at least 180 days prior to the planned start of construction. Facilities must be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit excuses the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. TRANSFER OF THIS PERMIT

This permit is automatically transferred to a new owner or operator if:

- A. A written agreement between the old and new owner or operator containing a specific date for transfer of permit responsibility, coverage, and liability is submitted to Ecology;
- B. A copy of the permit is provided to the new owner and the receiving POTW is notified and;
- C. Ecology does not notify the Permittee of the need to modify the permit.

Unless this permit is automatically transferred according to subsection A. above, this permit may be transferred only if it is modified to identify the new Permittee and to incorporate such other requirements as determined necessary by Ecology.

G8. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee must control production or discharge to the extent necessary to maintain compliance with the terms and conditions of this permit upon reduction of efficiency, loss, or failure of its treatment facility until the treatment capacity is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power for the treatment facility is reduced, lost, or fails.

G9. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must not be resuspended or reintroduced to the effluent stream for discharge.

G10. PAYMENT OF FEES

The Permittee must submit payment of fees associated with this permit as assessed by Ecology. Ecology may revoke this permit if the permit fees established under Chapter 173-224 WAC are not paid.

G11. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit is guilty of a crime, and upon conviction thereof will be punished by a fine of up to ten thousand dollars and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs is a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit will incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is a separate and distinct violation.

G12. DUTY TO PROVIDE INFORMATION

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee must also submit to Ecology upon request, copies of records required to be kept by this permit.

G13. DUTY TO COMPLY

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

APPENDIX A

**EFFLUENT CHARACTERIZATION FOR POLLUTANTS
THIS LIST INCLUDES EPA REQUIRED POLLUTANTS (PRIORITY POLLUTANTS) AND
SOME ECOLOGY PRIORITY TOXIC CHEMICALS (PBTs)**

The following table with analytical methods and levels is to be used as guidance for effluent characterization in NPDES permit applications, applications for permit renewal, and monitoring required by permit. This attachment is used in conjunction with Section V, Parts A, B, and C of EPA Application Form 2C, Parts A.12, B.6, and D of EPA application form 2A and with State applications. This attachment specifies effluent characterization requirements of Ecology. For application, analyze your wastewater for all parameters required by the application and any additional pollutants with an X in the left column. The data should be compiled from last year's data if it is a parameter routinely measured. If you are a primary industry category with effluent guidelines you may have some mandatory testing requirements (see Table 2C-2 of Form 2C). If you are a municipal POTW you also have some mandatory testing requirements which are dependent upon the design flow (see EPA form 2A).

The permit applications will specify the groups of compounds to be analyzed. Ecology may require additional pollutants to be analyzed within a group. The objectives are to reduce the number of analytical "non-detects" in applications and to measure effluent concentrations near or below criteria values where possible at a reasonable cost. If an applicant or Permittee knows that an alternate, less sensitive method (higher DL and QL) from 40 CFR Part 136 is sufficient to produce measurable results in their effluent, that method may be used for analysis.

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
CONVENTIONALS			
Biochemical Oxygen Demand	SM5210-B		2 mg/L
Chemical Oxygen Demand	SM5220-D		10 mg/L
Total Organic Carbon	SM5310-B/C/D		1 mg/L
Total Suspended Solids	SM2540-D		5 mg/L
Total Ammonia (as N)	SM4500-NH3-GH		0.3 mg/L
Flow	Calibrated device		
Dissolved oxygen	4500-OC/OG		0.2 mg/L
Temperature (max. 7-day avg.)	Analog recorder or Use micro-recording devices known as thermistors		0.2° C
pH	SM4500-H ⁺ B	N/A	N/A
NONCONVENTIONALS			
Total Alkalinity	SM2320-B		5 mg/L as CaCo ₃

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
Bromide (24959-67-9)	4110 B	100	400
Chlorine, Total Residual	4500 Cl G		50.0
Color	SM2120 B/C/E		10 color unit
Fecal Coliform	SM 9221E	N/A	N/A
Fluoride (16984-48-8)	SM4500-F E	25	100
Nitrate-Nitrite (as N)	4500-NO3-E/F/H		100
Nitrogen, Total Kjeldahl (as N)	4500-NH3-C/E/FG		300
Ortho-Phosphate (PO ₄ as P)	4500- PE/PF	30	100
Phosphorus, Total (as P)	4500-PE/PF	30	100
Oil and Grease (HEM)	1664A		5,000
Radioactivity	Table 1E		
Salinity	SM2520-B		3 PSS
Settleable Solids	SM2540 -F		100
Sulfate (as mg/L SO ₄)	SM4110-B		200
Sulfide (as mg/L S)	4500-S ² F/D/E/G		200
Sulfite (as mg/L SO ₃)	SM4500-SO3B		2000
Surfactants	SM5540 C		50
Total dissolved solids	SM2540 C		20 mg/L
Total Hardness	2340B		200 as CaCO ₃
Aluminum, Total (7429-90-5)	200.8	2.0	10
Barium Total (7440-39-3)	200.8	0.5	2.0
Boron Total (7440-42-8)	200.8	2.0	10.0
Cobalt, Total (7440-48-4)	200.8	0.05	0.25
Iron, Total (7439-89-6)	200.8	12.5	50
Magnesium, Total (7439-95-4)	200.8	10	50
Molybdenum, Total (7439-98-7)	200.8	0.1	0.5
Manganese, Total (7439-96-5)	200.8	0.1	0.5
Tin, Total (7440-31-5)	200.8	0.3	1.5
Titanium, Total (7440-32-6)	200.8	0.5	2.5

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total (7440-36-0)	200.8	0.3	1.0
Arsenic, Total (7440-38-2)	200.8	0.1	0.5
Beryllium, Total (7440-41-7)	200.8	0.1	0.5
Cadmium, Total (7440-43-9)	200.8	0.05	0.25
Chromium (hex) dissolved (185-402-99)	SM3500-Cr EC	0.3	1.2
Chromium, Total (7440-47-3)	200.8	0.2	1.0
Copper, Total (7440-50-8)	200.8	0.4	2.0
Lead, Total (7439-92-1)	200.8	0.1	0.5
Mercury, Total (7439-97-6)	1631E	0.0002	0.0005
Nickel, Total (7440-02-0)	200.8	0.1	0.5
Selenium, Total (7782-49-2)	200.8	1.0	1.0
Silver, Total (7440-22-4)	200.8	0.04	0.2
Thallium, Total (7440-28-0)	200.8	0.09	0.36
Zinc, Total (7440-66-6)	200.8	0.5	2.5
Cyanide, Total (7440-66-6)	335.4	5	10
Cyanide, Available	SM4500-CN G	5	10
Phenols, Total	EPA 420.1		50
DIOXIN			
2,3,7,8-Tetra-Chlorodibenzo-P-Dioxin (176-40-16)	1613B	1.3 pg/L	5 pg/L
VOLATILE COMPOUNDS			
Acrolein (107-02-8)	624	5	10
Acrylonitrile (107-13-1)	624	1.0	2.0
Benzene (71-43-2)	624	1.0	2.0
Bis(2-Chloroethyl)ether (111-44-4)	611/625	1.0	2.0
Bis(2-Chloroisopropyl) ether (108-60-1)	611/625	1.0	2.0
Bromoform (75-25-2)	624	1.0	2.0
Carbon tetrachloride (108-90-7)	624/601 or SM6230B	1.0	2.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² μg/L unless specified	Quantitation Level (QL)³ μg/L unless specified
Chlorobenzene (108-90-7)	624	1.0	2.0
Chloroethane (75-00-3)	624/601	1.0	2.0
2-Chloroethylvinyl Ether (110-75-8)	624	1.0	2.0
Chloroform (67-66-3)	624 or SM6210B	1.0	2.0
Dibromochloromethane (124-48-1)	624	1.0	2.0
1,2-Dichlorobenzene (95-50-1)	624	1.9	7.6
1,3-Dichlorobenzene (541-73-1)	624	1.9	7.6
1,4-Dichlorobenzene (106-46-7)	624	4.4	17.6
3,3'-Dichlorobenzidine (91-94-1)	605/625	0.5	1.0
Dichlorobromomethane (75-27-4)	624	1.0	2.0
1,1-Dichloroethane (75-34-3)	624	1.0	2.0
1,2-Dichloroethane (107-06-2)	624	1.0	2.0
1,1-Dichloroethylene (75-35-4)	624	1.0	2.0
1,2-Dichloropropane (78-87-5)	624	1.0	2.0
1,3-dichloropropylene (mixed isomers) (542-75-6)	624	1.0	2.0
Ethylbenzene (100-41-4)	624	1.0	2.0
Methyl bromide (74-83-9) (Bromomethane)	624/601	5.0	10.0
Methyl chloride (74-87-3) (Chloromethane)	624	1.0	2.0
Methylene chloride (75-09-2)	624	5.0	10.0
1,1,2,2-Tetrachloroethane (79-34-5)	624	1.9	2.0
Tetrachloroethylene (127-18-4)	624	1.0	2.0
Toulene (108-88-3)	624	1.0	2.0
1,2-Trans-Dichloroethylene (156-60-5) (Ethylene dichloride)	624	1.0	2.0
1,1,1-Trichloroethane (71-55-6)	624	1.0	2.0
1,1,2-Trichloroethane (79-00-5)	624	1.0	2.0
Trichloroethylene (79-01-6)	624	1.0	2.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
Vinyl chloride (75-01-4)	624/SM6200B	1.0	2.0
ACID COMPOUNDS			
2-Chlorophenol (95-57-8)	625	1.0	2.0
2,4-Dichlorophenol (120-83-2)	625	0.5	1.0
2,4-Dimethylphenol (105-67-9)	625	0.5	1.0
4,6-dinitro-o-cresol (534-52-1) (2-methyl-4,6,-dinitrophenol)	625/1625B	1.0	2.0
2,4 dinitrophenol (51-28-5)	625	1.0	2.0
2-Nitrophenol (88-75-5)	625	0.5	1.0
4-nitrophenol (100-02-7)	625	0.5	1.0
Parachlorometa cresol (59-50-7) (4-chloro-3-methylphenol)	625	1.0	2.0
Pentachlorophenol (87-86-5)	625	0.5	1.0 ¹⁰
Phenol (108-95-2)	625	2.0	4.0
2,4,6-Trichlorophenol (88-06-2)	625	2.0	4.0
BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene (83-32-9)	625	0.2	0.4
Acenaphthylene (208-96-8)	625	0.3	0.6
Anthracene (120-12-7)	625	0.3	0.6
Benzidine (92-87-5)	625	12	24
Benzyl butyl phthalate (85-68-7)	625	0.3	0.6
Benzo(a)anthracene (56-55-3)	625	0.3	0.6
Benzo(j)fluoranthene (205-82-3)	625	0.5	1.0
Benzo(r,s,t)pentaphene (189-55-9)	625	0.5	1.0
Benzo(a)pyrene (50-32-8)	610/625	0.5	1.0
3,4-benzofluoranthene (Benzo(b)fluoranthene) (205-99-2)	610/625	0.8	1.6
11,12-benzofluoranthene (Benzo(k)fluoranthene) (207-08-9)	610/625	0.8	1.6
Benzo(ghi)Perylene (191-24-2)	610/625	0.5	1.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
Bis(2-chloroethoxy)methane (111-91-1)	625	5.3	21.2
Bis(2-chloroethyl)ether (111-44-4)	611/625	0.3	1.0
Bis(2-chloroisopropyl)ether (108-60-1)	625	0.3	0.6
Bis(2-ethylhexyl)phthalate (117-81-7)	625	0.1	0.5
4-Bromophenyl phenyl ether (101-55-3)	625	0.2	0.4
2-Chloronaphthalene (91-58-7)	625	0.3	0.6
4-Chlorophenyl phenyl ether (7005-72-3)	625	0.3	0.5
Chrysene (218-01-9)	610/625	0.3	0.6
Dibenzo (a,j)acridine (224-42-0)	610M/625M	2.5	10.0
Dibenzo (a,h)acridine (226-36-8)	610M/625M	2.5	10.0
Dibenzo(a-h)anthracene (53-70-3)(1,2,5,6-dibenzanthracene)	625	0.8	1.6
Dibenzo(a,e)pyrene (192-65-4)	610M/625M	2.5	10.0
Dibenzo(a,h)pyrene (189-64-0)	625M	2.5	10.0
3,3'-Dichlorobenzidine (91-94-1)	605/625	0.5	1.0
Diethyl phthalate (84-66-2)	625	1.9	7.6
Dimethyl phthalate (131-11-3)	625	1.6	6.4
Di-n-butyl phthalate (84-74-2)	625	0.5	1.0
2,4-dinitrotoluene (121-14-2)	609/625	0.2	0.4
2,6-dinitrotoluene (606-20-2)	609/625	0.2	0.4
Di-n-octyl phthalate (117-84-0)	625	0.3	0.6
1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	1625B	5.0	20
Fluoranthene (206-44-0)	625	0.3	0.6
Fluorene (86-73-7)	625	0.3	0.6
Hexachlorobenzene (118-74-1)	612/625	0.3	0.6
Hexachlorobutadiene (87-68-3)	625	0.5	1.0
Hexachlorocyclopentadiene (77-47-4)	1625B/625	0.5	1.0
Hexachloroethane (67-72-1)	625	0.5	1.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² µg/L unless specified	Quantitation Level (QL)³ µg/L unless specified
Indeno(1,2,3-cd)Pyrene (193-39-5)	610/625	0.5	1.0
Isophorone (78-59-1)	625	0.5	1.0
3-Methyl cholanthrene (56-49-5)	625	2.0	8.0
Naphthalene (91-20-3)	625	0.3	0.6
Nitrobenzene (98-95-3)	625	0.5	1.0
N-Nitrosodimethylamine (62-75-9)	607/625	2.0	4.0
N-Nitrosodi-n-propylamine (621-64-7)	607/625	0.5	1.0
N-Nitrosodiphenylamine (86-30-6)	625	0.5	1.0
Perylene (198-55-0)	625	1.9	7.6
Phenanthrene (85-01-8)	625	0.3	0.6
Pyrene (129-00-0)	625	0.3	0.6
1,2,4-Trichlorobenzene (120-82-1)	625	0.3	0.6
PESTICIDES/PCBs			
Aldrin (309-00-2)	608	0.025	0.05
alpha-BHC (319-84-6)	608	0.025	0.05
beta-BHC (319-85-7)	608	0.025	0.05
gamma-BHC (58-89-9)	608	0.025	0.05
delta-BHC (319-86-8)	608	0.025	0.05
Chlordane (57-74-9)	608	0.025	0.05
4,4'-DDT (50-29-3)	608	0.025	0.05
4,4'-DDE (72-55-9)	608	0.025	0.05 ¹⁰
4,4' DDD (72-54-8)	608	0.025	0.05
Dieldrin (60-57-1)	608	0.025	0.05
alpha-Endosulfan (959-98-8)	608	0.025	0.05
beta-Endosulfan (33213-65-9)	608	0.025	0.05
Endosulfan Sulfate (1031-07-8)	608	0.025	0.05
Endrin (72-20-8)	608	0.025	0.05
Endrin Aldehyde (7421-93-4)	608	0.025	0.05

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)² μg/L unless specified	Quantitation Level (QL)³ μg/L unless specified
Heptachlor (76-44-8)	608	0.025	0.05
Heptachlor Epoxide (1024-57-3)	608	0.025	0.05
PCB-1242 (53469-21-9)	608	0.25	0.5
PCB-1254 (11097-69-1)	608	0.25	0.5
PCB-1221 (11104-28-2)	608	0.25	0.5
PCB-1232 (11141-16-5)	608	0.25	0.5
PCB-1248 (12672-29-6)	608	0.25	0.5
PCB-1260 (11096-82-5)	608	0.13	0.5
PCB-1016 (12674-11-2)	608	0.13	0.5
Toxaphene (8001-35-2)	608	0.24	0.5

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99 percent confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR Part 136, Appendix B.
2. Quantitation Level (QL) is equivalent to EPA's Minimum Level (ML) which is defined in 40 CFR Part 136 as the minimum level at which the entire GC/MS system must give recognizable mass spectra (background corrected) and acceptable calibration points. These levels were published as proposed in the Federal Register on March 28, 1997.

APPENDIX B –PRIORITY POLLUTANT LIST

[Background on this List](#)

Priority pollutants are a set of chemical pollutants we regulate, and for which we have developed analytical test methods. The current list of 126 Priority Pollutants, shown below, can also be found in [Appendix A to 40 CFR Part 423](#).

Acenaphthene	Hexachloromyclopentadiene
Acrylonitrile	Isophorone
Acrolein	Napthalene
Benzene	Nitrobenzene
Benzidine	2-nitrophenol
Carbon tetrachloride	4-nitrophenol
Chlorobenzene	2,4-dinitrophenol
1,2,4-trichlorobenzene	4,6-dinitro-o-cresol
Hexachlorbenzene	N-nitrosodimethylamine
1,2-dichloroethane	N-nitrosodiphenylamine
1,1,1-trichloroethane	N-nitrosodi-n-propylamine
Hexachloroethane	Pentachlorophenol
1,1-dichloroethane	Phenol
1,1,2-trichloroethane	Bis(2-ethylhexyl) phthalate
1,1,2,2-tetrachloroethane	Butyl benzyl phthalate
Chloroethane	Di-N-Butyl Phthalate
Bis(2-chloroethyl) ether	Di-n-octyl phthalate
2-chloroethyl vinyl ethers	Diethyl Phthalate
2-chloronaphthalene	Dimethyl phthalate
2,4,6-trichlorophenol	Benzo(a)anthracene
Parachlorometa cresol	Benzo(a)pyrene
Chloroform	3,4-Benzofluoranthene (benzo (b) fluoranthene)
2-chlorophenol	11,12-benzofluoranthene (benzo (b) fluoranthene)
1,2-dichlorobenzene	Chrysene
1,3-dichlorobenzene	Acenaphthylene
1,4-dichlorobenzene	Anthracene
3,3-dichlorobenzene	Benzo(ghi) perylene
1,1-dichloroethylene	Fluorene
1,2-trans-dichloroethylene	Phenanthrene
2,4-dichlorophenol	Dibenzo,(h) anthracene
1,2-dichloropropane	Indeno (1,2,3-cd) pyrene
1,2-dichloropropylene	Pyrene
2,4-dimethylphenol	Tetrachloroethylene
2,4-dinitrotoluene	Toluene
2,6-dinitrotoluene	Trichloroethylene
1,2-diphenylhydrazine	Vinyl chloride
Ethylbenzene	Aldrin
Fluoranthene	Dieldrin
4-chlorophenyl phenyl ether	Chlordane
4-bromophenyl phenyl ether	4,4-DDT
Bis(2-chloroisopropyl) ether	4,4-DDE

Bis(2-chloroethoxy) methane	4,4-DDD
Methylene chloride	Alpha-endosulfan
Methyl chloride	Beta-endosulfan
Methyl bromide	Endosulfan sulfate
Bromoform	Endrin
Dichlorobromomethane	Enfrin aldehyde
Chlorodibromomethane	Heptachlor
Hexachlorobutadiene	Heptachlor epoxide
Alpha-BHC	Asbestos
Beta-BHC	Beryllium
Gamma-BHC	Cadmium
Delta-BHC	Chromium
PCB-1242 (Arochlor 1242)	Copper
PCB-1254 (Arochlor 1254)	Cyanide, Total
PCB-1221 (Arochlor 1221)	Lead
PCB-1232 (Arochlor 1232)	Mercury
PCB-1248 (Arochlor 1248)	Nickel
PCB-1260 (Arochlor 1260)	Selenium
PCB-1016 (ARochlor 1016)	Silver
Toxaphene	Thallium
Antimony	Zinc
Arsenic	2,3,7,8-TCDD

FACT SHEET FOR STATE WASTE DISCHARGE PERMIT NO. ST 6178

Simpson Door Company

TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	3
BACKGROUND INFORMATION'	4
DESCRIPTION OF THE FACILITY	4
History:	4
Industrial Processes:	4
Treatment Processes	4
PERMIT STATUS	4
WASTEWATER CHARACTERIZATION	4
PROPOSED PERMIT LIMITATIONS	5
TECHNOLOGY-BASED EFFLUENT LIMITATIONS	5
EFFLUENT LIMITATIONS BASED ON LOCAL LIMITS	5
MONITORING REQUIREMENTS	6
OTHER PERMIT CONDITIONS	6
REPORTING AND RECORDKEEPING	6
OPERATIONS AND MAINTENANCE	6
PROHIBITED DISCHARGES	6
DILUTION PROHIBITED	7
SPILL PLAN	7
GENERAL CONDITIONS	7
PUBLIC NOTIFICATION OF NONCOMPLIANCE.....	7
RECOMMENDATION FOR PERMIT ISSUANCE	7
Appendices.....	8
APPENDIX A—PUBLIC INVOLVEMENT INFORMATION	8
APPENDIX B—GLOSSARY	9
APPENDIX C – PERFORMANCE BASED LIMITS	12
APPENDIX D – RESPONSE TO COMMENTS	13

INTRODUCTION

This fact sheet is a companion document to the draft State Waste Discharge Permit No. ST 6178. The Department of Ecology (Department) is proposing to issue this permit, which will allow discharge of wastewater to the McCleary Wastewater Treatment Plant. This fact sheet explains the nature of the proposed discharge, the Department’s decisions on limiting the pollutants in the wastewater, and the regulatory and technical bases for those decisions.

Washington State law (RCW 90.48.080 and 90.48.160) requires that a permit be issued before discharge of wastewater to waters of the state is allowed. This statute includes commercial or industrial discharges to sewerage systems operated by municipalities or public entities which discharge into public waters of the state. Regulations adopted by the state include procedures for issuing permits and establish requirements which are to be included in the permit (Chapter 173-216 WAC).

This fact sheet and draft permit are available for review by interested persons as described in Appendix A—Public Involvement Information.

The fact sheet and draft permit have been reviewed by the Permittee. Errors and omissions identified in these reviews have been corrected before going to public notice. After the public comment period has closed, the Department will summarize the substantive comments and the response to each comment. The summary and response to comments will become part of the file on the permit and parties submitting comments will receive a copy of the Department’s response. The fact sheet will not be revised. Changes to the permit will be addressed in Appendix D—Response to Comments.

GENERAL INFORMATION	
Applicant:	The Simpson Door Company
Facility Name and Address:	400 Simpson Avenue, McCleary WA 98577
Type of Facility:	Door Manufacturing Plant
Facility Discharge Location:	Mill Outfall 001 Latitude: 47° 03' 21" N Longitude: 123° 15' 55" W Mill Outfall 002 Latitude: 47° 03' 22" N Longitude: 123° 16' 06" W POTW Outfall Latitude: 47° 03' 19" N Longitude: 123° 16' 33" W
Treatment Plant Receiving Discharge:	The McCleary Wastewater Treatment Plant
Contact at Facility:	Name: Dan Holcombe Telephone #: (360) 427-4738
Responsible Official:	Name: Jim Fielder Title: General Manager Address: 400 Simpson Avenue, McCleary, WA 98577 Telephone #: (360) 495-3291 FAX # (360) 495-2074

BACKGROUND INFORMATION

DESCRIPTION OF THE FACILITY

HISTORY:

There has been a timber products mill at this location since at least 1917.

INDUSTRIAL PROCESSES:

The Simpson Door Company (Simpson Door) processes imported wood, green fir and hemlock lumber into finished wooden doors. The lumber is kiln dried, planed, re-moistened and sliced. This wood is then cut, shaped and glued into component door parts. The component parts are jointed, molded and shaped to their final form before assembly. Doors are then assembled, glazed if required, sanded and fitted to final dimensions. The sources of industrial wastewater are conditioning water from the veneer slicing operation, boiler blowdown, and equipment cleaning water.

Simpson Door is a Significant Industrial User since actual combined flow is 15,000 gallons per day, below the regulation thresholds of 25, 000 gallons per day, but above 5% of the average dry weather hydraulic capacity of the McCleary POTW (12,500 gallons per day). This flow also exceeds 5% of the TSS and BOD treatment capacity of the plant (20.55 lbs/day).

TREATMENT PROCESSES

Boiler blowdown is discharged to Outfall 004 (Manhole 5) along with sanitary sewage without treatment. Equipment washwater is treated by passage through an oil-water separator before joining the sanitary sewage and the boiler blowdown at Manhole 5. Slicer wastewater is treated by installing a treatment system that will allow re-circulating the wastestream until pollutant concentrations necessitate discharge to the POTW through Manhole 001. Discharge is by batch once weekly. Filter backwash will also be wasted through Outfall 001.

The re-circulation treatment is chilling followed by sand filtration and pH adjustment.

PERMIT STATUS

An application for a permit was submitted to the Department on April 1, 2004, and accepted by the Department on July 6, 2004.

WASTEWATER CHARACTERIZATION

For this table, BOD concentration, total suspended solids, and pH are taken from the permit application. Temperature and flow are taken from the DMRs.

Parameter	Outfall	Monthly Average	Daily Maximum
Flow, gpd	001	11, 110	29,860
BOD ₅ Concentration	001	386	880
pH, S.U.	001	N/A	6.0 to 8.9
Flow, gpd	004	2596	9653
pH, standard units	004	N/A	6.4 to 11.8
Temperature, ° C	004	49	60

A review of the MSDS sheets for the boiler treatment chemicals shows no proprietary chemicals and no regulated toxic chemicals.

PROPOSED PERMIT LIMITATIONS

State regulations require that limitations set forth in a waste discharge permit must be based on the technology available to treat the pollutants (technology-based) or be based on the effects of the pollutants to the POTW (local limits). Wastewater must be treated using all known, available, and reasonable treatment (AKART) and not interfere with the operation of the POTW.

The minimum requirements to demonstrate compliance with the AKART standard and specific design criteria for this facility were determined in the engineering report.

The more stringent of the local limits-based or technology-based limits are applied to each of the parameters of concern. Each of these types of limits is described in more detail below.

TECHNOLOGY-BASED EFFLUENT LIMITATIONS

All waste discharge permits issued by the Department must specify conditions requiring available and reasonable methods of prevention, control, and treatment of discharges to waters of the state (WAC 173-216-110). Existing federal categorical limitations for this facility are found under 40 CFR Part 429.30, Timber Products Processing Point Source Category, Subpart B. The following permit limitations are necessary to satisfy the requirement for AKART for Outfall 001:

Pollutant or Pollutant Property	Maximum for 1 day Pounds per Cubic Foot of Production	Monthly Average Pounds per Cubic Foot of Production
BOD ₅ ¹	0.045	0.015
pH, S.U.	6 to 9	6 to 9

¹ Taking the unit weight of Douglas Fir at 32 pounds per cubic foot, the following limits for discharge to the environment are identical to the limits above and more convenient to measure.

Pollutant or Pollutant Property	Maximum for 1 day Pounds per Pound of Production	Monthly Average Pounds per Pound of Production
BOD ₅	.0014	0.0005
pH, S.U.	6 to 9	6 to 9

The McCleary POTW has problems with exceeding their flow limits. As a result, it is necessary to set a flow limit on Outfall 004. The Ecology standard method for determining limits from past performance was used to statistically determine flow limits for this outfall. After eliminating obviously large flows (around three time average), limits were set at 3300 gpd for monthly average flow and 4100 gpd for a daily maximum flow.

EFFLUENT LIMITATIONS BASED ON LOCAL LIMITS

In order to protect the McCleary Wastewater Treatment Plant from pass-through, interference, concentrations of toxic chemicals that would impair beneficial or designated uses of sludge, or potentially hazardous exposure levels, limitations for certain parameters are necessary. These limitations are based

on local limits established by the McCleary Wastewater Treatment Plant and codified in ordinance. Applicable limits for this discharge include the following:

Pollutant or Pollutant Property	Maximum for 1 day
Temperature, °C	65
pH, S.U.	Minimum 5.5

No limits have been set for the discharge from the equipment wash rack since this facility meets the requirements Vehicle and Equipment Washwater Discharge, Department of Ecology Publication Q-R-95-6, June 1995. Pollutant concentrations in the proposed discharge with technology-based controls in place will not cause problems at the receiving POTW such as interference, pass-through or hazardous exposure to POTW workers nor will it result in unacceptable pollutant levels in the POTW's sludge.

MONITORING REQUIREMENTS

Monitoring, recording, and reporting are specified to verify that the treatment process is functioning correctly, and that effluent limitations are being achieved (WAC 173-216-110).

The monitoring schedule is detailed in the proposed permit under Condition S1. Specified monitoring frequencies take into account the quantity and variability of the discharge, the treatment method, past compliance, significance of pollutants, and cost of monitoring. Given the good performance of Simpson Door during the period January 1, 2002 through January 2004, the sampling interval is reduced from weekly to monthly.

OTHER PERMIT CONDITIONS

REPORTING AND RECORDKEEPING

The conditions of S2 are based on the authority to specify any appropriate reporting and recordkeeping requirements to prevent and control waste discharges [WAC 273-216-110 and 40 CFR 403.12 (e),(g), and (h)].

OPERATIONS AND MAINTENANCE

The proposed permit contains condition S.4. as authorized under Chapter 173-240-150 WAC and Chapter 173-216-110 WAC. It is included to ensure proper operation and regular maintenance of equipment, and to ensure that adequate safeguards are taken so that constructed facilities are used to their optimum potential in terms of pollutant capture and treatment.

PROHIBITED DISCHARGES

Certain pollutants are prohibited from being discharged to the POTW. These include substances that cause pass-through or interference, pollutants which may cause damage to the POTW or harm to the POTW workers (Chapter 173-216 WAC) and the discharge of designated dangerous wastes not authorized by this permit (Chapter 173-303 WAC).

DILUTION PROHIBITED

The Permittee is prohibited from diluting its effluent as a partial or complete substitute for adequate treatment to achieve compliance with permit limitations.

SPILL PLAN

The Department has determined that the Permittee stores a quantity of chemicals that have the potential to cause water pollution if accidentally released. The Department has the authority to require the Permittee to develop best management plans to prevent this accidental release under section 402(a)(1) of the Federal Water Pollution Control Act (FWPCA) and RCW 90.48.080.

The spill plan submitted with the permit application is accepted as current for the proposed permit.

GENERAL CONDITIONS

General Conditions are based directly on state laws and regulations and have been standardized for all industrial waste discharge to POTW permits issued by the Department.

Condition G1 requires responsible officials or their designated representatives to sign submittals to the Department. Condition G2 requires the Permittee to allow the Department to access the treatment system, production facility, and records related to the permit. Condition G3 specifies conditions for modifying, suspending or terminating the permit. Condition G4 requires the Permittee to apply to the Department prior to increasing or varying the discharge from the levels stated in the permit application. Condition G5 requires the Permittee to construct, modify, and operate the permitted facility in accordance with approved engineering documents. Condition G6 prohibits the Permittee from using the permit as a basis for violating any laws, statutes or regulations. Conditions G7 and G8 relate to permit renewal and transfer. Condition G9 requires the Permittee to control production or wastewater discharge in order to maintain compliance with the permit. Condition G10 prohibits the reintroduction of removed pollutants into the effluent stream for discharge. Condition G11 requires the payment of permit fees. Condition G12 describes the penalties for violating permit conditions.

PUBLIC NOTIFICATION OF NONCOMPLIANCE

A list of all industrial users which were in significant noncompliance with Pretreatment Standards or Requirements during any of the previous four quarters may be annually published by the Department in a local newspaper. Accordingly, the Permittee is apprised that noncompliance with this permit may result in publication of the noncompliance.

RECOMMENDATION FOR PERMIT ISSUANCE

This proposed permit meets all statutory requirements for authorizing a wastewater discharge, including those limitations and conditions believed necessary to control toxics. The Department proposes that the permit be issued for a period corresponding to the cycle established for the watershed but not to exceed five years.

APPENDICES

APPENDIX A—PUBLIC INVOLVEMENT INFORMATION

The Department has tentatively determined to reissue a permit to the applicant listed on page 1 of this fact sheet. The permit contains conditions and effluent limitations which are described in the rest of this fact sheet.

Public notice of application was published on March 21, 2004, and March 28, 2004, in Aberdeen's *The Daily World* to inform the public that an application had been submitted and to invite comment on the reissuance of this permit.

The Department will publish a Public Notice of Draft (PNOD) on November 2, 2004 in Aberdeen's *The Daily World* to inform the public that a draft permit and fact sheet are available for review. Interested persons are invited to submit written comments regarding the draft permit. The draft permit, fact sheet, and related documents are available for inspection and copying between the hours of 8:00 a.m. and 4:30 p.m. weekdays, by appointment, at the regional office listed below. Written comments should be mailed to:

Industrial Unit Permit Coordinator
Department of Ecology
Southwest Region - Water Quality
P.O. Box 47775
Olympia, WA 98504-7775

Any interested party may comment on the draft permit or request a public hearing on this draft permit within the thirty (30) day comment period to the address above. The request for a hearing shall indicate the interest of the party and reasons why the hearing is warranted. The Department will hold a hearing if it determines there is a significant public interest in the draft permit (WAC 173-216-100). Public notice regarding any hearing will be circulated at least thirty (30) days in advance of the hearing. People expressing an interest in this permit will be mailed an individual notice of hearing.

The Department will consider all comments received within thirty (30) days from the date of public notice of draft indicated above, in formulating a final determination to issue, revise, or deny the permit. The Department's response to all significant comments is available upon request and will be mailed directly to people expressing an interest in this permit.

Further information may be obtained from the Department by telephone, (360) 407-6285 or by writing to the address listed above.

This permit was written by Gary Anderson

APPENDIX B—GLOSSARY

Ammonia—Ammonia is produced by the breakdown of nitrogenous materials in wastewater. Ammonia is toxic to aquatic organisms, exerts an oxygen demand, and contributes to eutrophication. It also increases the amount of chlorine needed to disinfect wastewater.

Average Monthly Discharge Limitation—The average of the measured values obtained over a calendar month's time.

Best Management Practices (BMPs)--Schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural and/or managerial practices to prevent or reduce the pollution of waters of the State. BMPs include treatment systems, operating procedures, and practices to control: plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. BMPs may be further categorized as operational, source control, erosion and sediment control, and treatment BMPs.

BOD₅--Determining the Biochemical Oxygen Demand of an effluent is an indirect way of measuring the quantity of organic material present in an effluent that is utilized by bacteria. The BOD₅ is used in modeling to measure the reduction of dissolved oxygen in a receiving water after effluent is discharged. Stress caused by reduced dissolved oxygen levels makes organisms less competitive and less able to sustain their species in the aquatic environment. Although BOD is not a specific compound, it is defined as a conventional pollutant under the federal Clean Water Act.

Bypass—The intentional diversion of waste streams from any portion of the collection or treatment facility.

Categorical Pretreatment Standards—National pretreatment standards specifying quantities or concentrations of pollutants or pollutant properties which may be discharged to a POTW by existing or new industrial users in specific industrial subcategories.

Compliance Inspection - Without Sampling--A site visit for the purpose of determining the compliance of a facility with the terms and conditions of its permit or with applicable statutes and regulations.

Compliance Inspection - With Sampling--A site visit to accomplish the purpose of a Compliance Inspection - Without Sampling and as a minimum, sampling and analysis for all parameters with limits in the permit to ascertain compliance with those limits; and, for municipal facilities, sampling of influent to ascertain compliance with the 85 percent removal requirement. Additional sampling may be conducted.

Composite Sample—A mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing discrete samples. May be "time-composite"(collected at constant time intervals) or "flow-proportional" (collected either as a constant sample volume at time intervals proportional to stream flow, or collected by increasing the volume of each aliquot as the flow increased while maintaining a constant time interval between the aliquots.

Construction Activity—Clearing, grading, excavation and any other activity which disturbs the surface of the land. Such activities may include road building, construction of residential houses, office buildings, or industrial buildings, and demolition activity.

Engineering Report—A document, signed by a professional licensed engineer, which thoroughly examines the engineering and administrative aspects of a particular domestic or industrial wastewater facility. The report shall contain the appropriate information required in WAC 173-240-060 or 173-240-130.

Grab Sample—A single sample or measurement taken at a specific time or over as short period of time as is feasible.

Industrial User—A discharger of wastewater to the sanitary sewer which is not sanitary wastewater or is not equivalent to sanitary wastewater in character.

Industrial Wastewater—Water or liquid-carried waste from industrial or commercial processes, as distinct from domestic wastewater. These wastes may result from any process or activity of industry, manufacture, trade or business, from the development of any natural resource, or from animal operations such as feed lots, poultry houses, or dairies. The term includes contaminated storm water and, also, leachate from solid waste facilities.

Interference— A discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal and;

Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA), sludge regulations appearing in 40 CFR Part 507, the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

Local Limits—Specific prohibitions or limits on pollutants or pollutant parameters developed by a POTW.

Maximum Daily Discharge Limitation—The highest allowable daily discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. The daily discharge is calculated as the average measurement of the pollutant over the day.

Method Detection Level (MDL)--The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is above zero and is determined from analysis of a sample in a given matrix containing the analyte.

Pass-through— A discharge which exits the POTW into waters of the—State in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation), or which is a cause of a violation of State water quality standards.

pH—The pH of a liquid measures its acidity or alkalinity. A pH of 7 is defined as neutral, and large variations above or below this value are considered harmful to most aquatic life.

Potential Significant Industrial User--A potential significant industrial user is defined as an Industrial User which does not meet the criteria for a Significant Industrial User, but which discharges wastewater meeting one or more of the following criteria:

- a. Exceeds 0.5 % of treatment plant design capacity criteria and discharges <25,000 gallons per day or;
- b. Is a member of a group of similar industrial users which, taken together, have the potential to cause pass through or interference at the POTW (e.g. facilities which develop photographic film or paper, and car washes).

The Department may determine that a discharger initially classified as a potential significant industrial user should be managed as a significant industrial user.

Quantitation Level (QL)-- A calculated value five times the MDL (method detection level).

Significant Industrial User (SIU)--

1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N and;

2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority* on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority* may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

*The term "Control Authority" refers to the Washington State Department of Ecology in the case of non-delegated POTWs or to the POTW in the case of delegated POTWs.

Slug Discharge—Any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge to the POTW. This may include any pollutant released at a flow rate which may cause interference with the POTW.

State Waters—Lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the state of Washington.

Stormwater—That portion of precipitation that does not naturally percolate into the ground or evaporate, but flows via overland flow, interflow, pipes, and other features of a storm water drainage system into a defined surface water body, or a constructed infiltration facility.

Technology-based Effluent Limit—A permit limit that is based on the ability of a treatment method to reduce the pollutant.

Total Coliform Bacteria—A microbiological test which detects and enumerates the total coliform group of bacteria in water samples.

Total Dissolved Solids—That portion of total solids in water or wastewater that passes through a specific filter.

Total Suspended Solids (TSS)--Total suspended solids is the particulate material in an effluent. Large quantities of TSS discharged to a receiving water may result in solids accumulation. Apart from any toxic effects attributable to substances leached out by water, suspended solids may kill fish, shellfish, and other aquatic organisms by causing abrasive injuries and by clogging the gills and respiratory passages of various aquatic fauna. Indirectly, suspended solids can screen out light and can promote and maintain the development of noxious conditions through oxygen depletion.

Water Quality-based Effluent Limit—A limit on the concentration of an effluent parameter that is intended to prevent the concentration of that parameter from exceeding its water quality criterion after it is discharged into a receiving water.

APPENDIX C – PERFORMANCE BASED LIMITS

Parameter	Units	Value	Viol	Dmr Date	LN Value
FLOW	GPD	2215	N	1-Dec-01	7.703008
FLOW	GPD	2014	N	1-Jan-02	7.607878
FLOW	GPD	3510	N	1-Feb-02	8.163371
FLOW	GPD	1898	N	1-Mar-02	7.548556
FLOW	GPD	1944	N	1-Apr-02	7.572503
FLOW	GPD	1307	N	1-May-02	7.17549
FLOW	GPD	1040	N	1-Jun-02	6.946976
FLOW	GPD	1825	N	1-Jul-02	7.509335
FLOW	GPD	1248	N	1-Aug-02	7.129298
FLOW	GPD	1939	N	1-Sep-02	7.569928
FLOW	GPD	2997	N	1-Oct-02	8.005367
FLOW	GPD	2623	N	1-Nov-02	7.872074
FLOW	GPD	2406	N	1-Dec-02	7.785721
FLOW	GPD	1384	N	1-Mar-03	7.232733
FLOW	GPD	3015	N	1-Apr-03	8.011355
FLOW	GPD	2689	N	1-May-03	7.896925
FLOW	GPD	1692	N	1-Jun-03	7.433667
FLOW	GPD	2287	N	1-Jul-03	7.734996
FLOW	GPD	2379	N	1-Aug-03	7.774436
FLOW	GPD	2601	N	1-Sep-03	7.863651
FLOW	GPD	1702	N	1-Oct-03	7.439559
FLOW	GPD	1786	N	1-Nov-03	7.487734
FLOW	GPD	1275	N	1-Dec-03	7.150701
Average		2077.217			7.591968
Variance					0.100839

PERFORMANCE-BASED EFFLUENT LIMITS

LOGNORMAL TRANSFORMED MEAN =	7.5920
'LOGNORMAL TRANSFORMED VARIANCE =	0.1008
NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =	1
AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =	0
E(X) =	2084.7412
V(X) =	460932.274
VARn	0.1008
MEANn=	7.5920
VAR(Xn)=	460932.274
MAXIMUM DAILY EFFLUENT LIMIT =	4148.417
AVERAGE MONTHLY EFFLUENT LIMIT =	3341.822

3341.822 3201.564

APPENDIX D – RESPONSE TO COMMENTS

Comment 1.

A storm drain from the Simpson Door plant runs through the property of Jim and Jill Gravatt. This storm drain is in a state of disrepair, causing flooding on the Gravatt property.

Response:

Since Simpson Door discharges its waste water through the City of McCleary's sewer system, the flooding problem is outside the scope of this permit.

APPENDIX D

MCCLEARY WWTP NPDES PERMIT AND FACT SHEET



Issuance Date: May 20, 2013
Effective Date: June 1, 2013
Expiration Date: May 31, 2018

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE PERMIT NO. WA0024040**

State of Washington
DEPARTMENT OF ECOLOGY
Olympia, Washington 98504-7775

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

City of McCleary
100 South 3rd Street
McCleary, Washington 98557

Plant Location:
700 W Maple Street
McCleary, WA 98557

Water Body I.D. No.:
1233208470418

Plant Type:
Sequencing Batch Reactors and UV
Disinfection

Receiving Water:
East Fork Wildcat Creek

Discharge Location:
Latitude: 47.05450
Longitude: -123.27408

is authorized to discharge in accordance with the special and general conditions that follow.

Robert W. Bergquist, LEED® AP
Southwest Region Manager
Water Quality Program
Washington State Department of Ecology

TABLE OF CONTENTS

SUMMARY OF PERMIT REPORT SUBMITTALS.....	4
SPECIAL CONDITIONS	
S1. DISCHARGE LIMITATIONS	5
A. Effluent Limitations	
B. Mixing Zone Descriptions	
S2. MONITORING REQUIREMENTS	6
A. Monitoring Schedule	
B. Sampling and Analytical Procedures	
C. Flow Measurement	
D. Laboratory Accreditation	
S3. REPORTING AND RECORDING REQUIREMENTS	8
A. Reporting	
B. Records Retention	
C. Recording of Results	
D. Additional Monitoring by the Permittee	
E. Reporting Permit Violations	
F. Other Reporting	
G. Maintaining a Copy of This Permit	
S4. FACILITY LOADING	13
A. Design Criteria	
B. Plans for Maintaining Adequate Capacity	
C. Duty to Mitigate	
D. Notification of New or Altered Sources	
E. Infiltration and Inflow Evaluation	
F. Wasteload Assessment	
S5. OPERATION AND MAINTENANCE	15
A. Certified Operator	
B. O & M Program	
C. Short-term Reduction	
D. Electrical Power Failure	
E. Prevent Connection of Inflow	
F. Bypass Procedures	
G. Operations and Maintenance Manual	
S6. PRETREATMENT	18
A. General Requirements	
B. Wastewater Discharge Permit Required	
C. Identification and Reporting of Existing, New, and Proposed Industrial Users	
D. Annual Submittal of List of Industrial Users	

E.	Duty to Enforce Discharge Prohibitions	
S7.	RESIDUAL SOLIDS	20
S8.	APPLICATION FOR PERMIT RENEWAL	21
S9.	RECEIVING WATER AND EFFLUENT STUDY.....	21
	A. Monitoring	
	B. Reporting	
S10.	OUTFALL EVALUATION	21

GENERAL CONDITIONS

G1.	SIGNATORY REQUIREMENTS.....	22
G2.	RIGHT OF INSPECTION AND ENTRY	22
G3.	PERMIT ACTIONS.....	23
G4.	REPORTING PLANNED CHANGES	24
G5.	PLAN REVIEW REQUIRED	24
G6.	COMPLIANCE WITH OTHER LAWS AND STATUTES.....	24
G7.	TRANSFER OF THIS PERMIT	25
G8.	REDUCED PRODUCTION FOR COMPLIANCE.....	25
G9.	REMOVED SUBSTANCES	25
G10.	DUTY TO PROVIDE INFORMATION.....	25
G11.	OTHER REQUIREMENTS OF 40 CFR.....	26
G12.	ADDITIONAL MONITORING.....	26
G13.	PAYMENT OF FEES.....	26
G14.	PENALTIES FOR VIOLATING PERMIT CONDITIONS	26
G15.	UPSET	26
G16.	PROPERTY RIGHTS.....	26
G17.	DUTY TO COMPLY	27
G18.	TOXIC POLLUTANTS.....	27
G19.	PENALTIES FOR TAMPERING	27
G20.	REPORTING ANTICIPATED NON-COMPLIANCE.....	27
G21.	REPORTING OTHER INFORMATION.....	27
G22.	COMPLIANCE SCHEDULES	27
	APPENDIX A.....	28

SUMMARY OF PERMIT REPORT SUBMITTALS

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S3.A.	Discharge Monitoring Report	Monthly	July 15, 2013
S3.A.	Discharge Monitoring Report	Annual	January 15, 2015
S3.E.	Reporting Permit Violations	As necessary	
S4.B.	Plans for Maintaining Adequate Capacity	As necessary	
S4.D.	Notification of New or Altered Sources	As necessary	
S4.E.	Infiltration and Inflow Evaluation	Annually	June 30, 2013
S4.F.	Waste load Assessment	Annually	June 30, 2013
S5.F.	Bypass Notification	As necessary	
S5.G.	Operations and Maintenance Manual Update or Review Confirmation Letter	Annually	April 15, 2014
S6.C.	Notification of New Significant Users	As necessary	
S6.D.	List of Industrial Users	Annually	January 30, 2014
S8.	Application for permit renewal	1/permit cycle	December 1, 2017
S9.B.	Receiving Water and Effluent Study Results	Annually	December 15, 2014
S10.	Outfall Evaluation	1/permit cycle	September 30, 2015
G1.	Notice of Change in Authorization	as necessary	
G4.	Reporting Planned Changes	As necessary	
G5.	Engineering Report for Construction or Modification Activities	As necessary	
G20.	Reporting Anticipated Non-compliance	As necessary	
G21.	Reporting Other Information	As necessary	

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS

A. Effluent Limitations

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit. The discharge of any of the following pollutants more frequently than, or at a level in excess of, that identified and authorized by this permit shall constitute a violation of the terms and conditions of this permit.

Beginning on the effective date of this permit and lasting through the expiration date, the Permittee is authorized to discharge municipal wastewater at the permitted location subject to complying with the following limitations:

EFFLUENT LIMITATIONS^a: OUTFALL # 001 (JUNE THROUGH SEPTEMBER)		
Parameter	Average Monthly	Average Weekly
Biochemical Oxygen Demand (5 day)	15 mg/L, 31 lbs/day 85% removal of influent BOD	23 mg/L, 47 lbs/day
Total Suspended Solids	15 mg/L, 71 lbs/day 85% removal of influent TSS	23 mg/L, 107 lbs/day
Fecal Coliform Bacteria	91 Organisms/100 mL	182 Organisms/100 mL
pH ^b	Daily minimum is equal to or greater than 6.5 and the daily maximum is less than or equal to 8.5.	
Dissolved Oxygen	Shall not be less than 8.7 mg/L	
Temperature	Operate the Chiller when effluent temperature exceeds 17.8°C	
Parameter	Average Monthly	Maximum Daily^c
Total Ammonia (as NH ₃ -N)	1.0 mg/L, 4.32 lbs/day	2.0 mg/L

EFFLUENT LIMITATIONS^a: OUTFALL # 001 (OCTOBER THROUGH MAY)		
Parameter	Average Monthly	Average Weekly
Biochemical Oxygen Demand (5 day)	15 mg/L, 71 lbs/day 85% removal of influent BOD	23 mg/L, 107 lbs/day
Total Suspended Solids	15 mg/L, 71 lbs/day 85% removal of influent TSS	23 mg/L, 107 lbs/day
Fecal Coliform Bacteria	91 Organisms/100 mL	182 Organisms/100 mL
pH ^b	Daily minimum is equal to or greater than 6.5 and the daily maximum is less than or equal to 8.5.	

EFFLUENT LIMITATIONS^a: OUTFALL # 001 (OCTOBER THROUGH MAY)		
Parameter	Average Monthly	Average Weekly
Dissolved Oxygen	Shall not be less than 8.0 mg/L	
Parameter	Average Monthly	Maximum Daily^c
Total Ammonia (as NH ₃ -N)	1.0 mg/L	2.0 mg/L
^a The average monthly and weekly effluent limitations are based on the arithmetic mean of the samples taken with the exception of fecal coliform, which is based on the geometric mean.		
^b Indicates the range of permitted values. The instantaneous maximum and minimum pH shall be reported monthly. The pH shall not be averaged.		
^c The maximum daily effluent limitation is defined as the highest allowable daily discharge. The daily discharge means the discharge of a pollutant measured during a calendar day. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For other units of measurement, the daily discharge is the average measurement of the pollutant over the day. This does not apply to pH.		

B. Mixing Zone Descriptions

The mixing of the effluent is assumed to be instantaneous and complete with 100 percent of creek flow due to outfall configuration. The dilution ratios used to model impacts to receiving water quality are described in the fact sheet and are in compliance with Washington Administrative Code (WAC) 173-201A-400.

S2. **MONITORING REQUIREMENTS**

A. Monitoring Schedule

The Permittee shall monitor in accordance with the following schedule:

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
Wastewater Influent	Flow	MGD	Influent prior to any return flows	Continuous ^a	Measurement
Wastewater Influent	BOD ₅	mg/L lbs/day	Influent	2/week	24-hour Composite
Wastewater Influent	TSS	mg/L lbs/day	Influent	2/week	24-hour Composite
Wastewater Effluent	Flow	MGD	Effluent Parshall flume	Continuous ^a	Measurement

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
Wastewater Effluent	BOD ₅	mg/L lbs/day	Final Effluent	2/week	24-hour Composite
Wastewater Effluent	TSS	mg/L lbs/day	Final Effluent	2/week	24-hour Composite
Wastewater Effluent	pH	Standard Units	Final Effluent	5/week	Grab/Online
Wastewater Effluent	Dissolved Oxygen	mg/L	Final Effluent	5/week	Grab/Online
Wastewater Effluent	Temperature	°C	Final Effluent	5/week (October through April)	Grab/Online
Wastewater Effluent	Fecal Coliform	#/100 mL	Final Effluent	2/week	Grab
Wastewater Effluent	Total Ammonia (as NH ₃ -N)	mg/L lbs/day	Final Effluent	2/week	24-hour Composite
Receiving Water and Effluent Study	Temperature	°C	Final Effluent, Wildcat Creek upstream and downstream	Continuous ^a (May through September)	Measurement
Reapplication Monitoring	Total Kjeldahl Nitrogen	mg/L	Final Effluent	1/year ^b	24-hour Composite
Reapplication Monitoring	Nitrate plus Nitrite (as N)	mg/L	Final Effluent	1/year ^b	24-hour Composite
Reapplication Monitoring	Oil and Grease	mg/L	Final Effluent	1/year ^b	Grab
Reapplication Monitoring	Total Phosphorus	mg/L	Final Effluent	1/year ^b	24-hour Composite
Reapplication Monitoring	Total Dissolved Solids	mg/L	Final Effluent	1/year ^b	24-hour Composite
^a Continuous means uninterrupted except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. Sampling shall be taken at least three times a day when continuous monitoring is not possible.					

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
^b Yearly is defined as January through December (starting January 1, 2014). Submit monitoring results by January 15th each year and on the application for permit renewal.					

B. Sampling and Analytical Procedures

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored parameters, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets and maintenance-related conditions affecting effluent quality.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit shall conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 Code of Federal Regulations (CFR) Part 136.

C. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the quantity of monitored flows. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations and at a minimum frequency of at least one calibration per year. Calibration records shall be maintained for at least three years.

D. Laboratory Accreditation

All monitoring data required by the Department of Ecology (Ecology) shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 WAC. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement. Conductivity and pH shall be accredited if the laboratory must otherwise be registered or accredited. Ecology exempts crops, soils, and hazardous waste data from this requirement pending accreditation of laboratories for analysis of these media.

S3. REPORTING AND RECORDING REQUIREMENTS

The Permittee must monitor and report in accordance with the following conditions. Falsification of information submitted to Ecology is a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. The Permittee must:

1. Summarize, report, and submit monitoring data obtained during each monitoring period on the electronic Discharge Monitoring Report (DMR) form provided by Ecology within WAWebDMR. Include data for each of the parameters tabulated in Special Condition S2 and as required by the form. Report a value for each day sampling occurred (unless specifically exempted in the permit) and for the summary values (when applicable) included on the electronic form.

To find out more information and to sign up for WAWebDMR go to: <http://www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html>.

If unable to submit electronically (for example, if you do not have an internet connection), the Permittee must contact Ecology to request a waiver.

2. Enter the “No Discharge” reporting code for an entire DMR, for a specific monitoring point, or for a specific parameter as appropriate, if the Permittee did not discharge wastewater or a specific pollutant during a given monitoring period.
3. Report single analytical values below detection as “less than the detection level (DL)” by entering < followed by the numeric value of the detection level (e.g. < 2.0) on the DMR. If the method used did not meet the minimum DL and quantitation level (QL) identified in the permit, report the actual QL and DL in the comments or in the location provided.
4. Report the test method used for analysis in the comments if the laboratory used an alternative method not specified in the permit and as allowed in S2.
5. Calculate average values (unless otherwise specified in the permit) using:
 - a. The reported numeric value for all parameters measured between the agency-required detection value and the agency-required quantitation value.
 - b. One-half the detection value (for values reported below detection) if the lab detected the parameter in another sample for the reporting period.
 - c. Zero (for values reported below detection) if the lab did not detect the parameter in another sample for the reporting period.
6. Report single-sample grouped parameters (for example priority pollutants, PAHs, pulp and paper chlorophenolics, TTOs) on the WAWebDMR form and include: sample date, concentration detected, detection limit (DL) (as necessary), and laboratory quantitation level (QL) (as necessary). The Permittee must also submit an electronic PDF copy of the laboratory report using WAWebDMR.

If the Permittee has obtained a waiver from electronic reporting or if submitting prior to the compliance date, the Permittee must submit a paper copy of the laboratory report providing the following information: date sampled, sample location, date of analysis, parameter name, CAS number, analytical

method/number, detection limit (DL), laboratory quantitation level (QL), reporting units, and concentration detected.

The contract laboratory reports must also include information on the chain of custody, QA/QC results, and documentation of accreditation for the parameter.

7. Ensure that DMRs are electronically submitted no later than the dates specified below, unless otherwise specified in this permit.
8. Submit DMRs for parameters with the monitoring frequencies specified in S2 (monthly, quarterly, annual, etc.) at the reporting schedule identified below. The Permittee must:
 - a. Submit **monthly** DMRs by the 15th day of the following month.
 - b. Submit **annual DMRs**, unless otherwise specified in the permit, by January 15th for the previous calendar year. The annual sampling period is the calendar year.
9. Submit reports to Ecology online using Ecology's electronic WAWebDMR submittal forms (electronic DMRs) as required above. Send paper reports to Ecology at:

Water Quality Permit Coordinator
Department of Ecology
Southwest Regional Office
P.O. Box 47775
Olympia, WA 98504-7775

B. Records Retention

The Permittee must retain records of all monitoring information for a minimum of three years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

The Permittee must retain all records pertaining to the monitoring of sludge for a minimum of five years.

C. Recording of Results

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place and time of sampling
2. The individual who performed the sampling or measurement

3. The dates the analyses were performed
4. The individual who performed the analyses
5. The analytical techniques or methods used
6. The results of all analyses

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by Special Condition S2 of this permit, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the Permittee's DMR unless otherwise specified by Special Condition S2.

E. Reporting Permit Violations

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.
2. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within 30 days of sampling.

a. Immediate Reporting

The Permittee must immediately report to Ecology (at the number listed below), all:

- Failures of the disinfection system.
- System overflows.
- Plant bypasses resulting in a discharge.
- Any other failures of the sewage system (pipe breaks, etc).
- Overflows or leaks of transmission or irrigation pipelines that discharge to a waterbody used as a source of drinking or irrigation water.

Southwest Regional Office 360-407-6300

b. Twenty-Four-Hour Reporting

The Permittee must report the following occurrences of noncompliance by telephone, to Ecology at the telephone numbers listed above, within 24 hours from the time the Permittee becomes aware of any of the following circumstances:

- 1) Any noncompliance that may endanger health or the environment, unless previously reported under immediate reporting requirements.
- 2) Any unanticipated bypass that causes an exceedance of an effluent limit in the permit (See Part S5.F., “Bypass Procedures”).
- 3) Any upset that causes an exceedance of an effluent limit in the permit. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- 4) Any violation of a maximum daily or instantaneous maximum discharge limit for any of the pollutants in Section S1.A of this permit.
- 5) Any overflow prior to the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limit in the permit.

c. Report within Five Days

The Permittee must also submit a written report within five days of the time that the Permittee becomes aware of any reportable event under subparts a or b, above. The report must contain:

- 1) A description of the noncompliance and its cause.
- 2) Maps, drawings, aerial photographs, or pictures to show the location and cause(s) of the non-compliance.
- 3) The period of noncompliance, including exact dates and times.
- 4) The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
- 5) Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- 6) If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

d. Waiver of Written Reports

Ecology may waive the written report required in subpart c, above, on a case-by-case basis upon request if the Permittee has submitted a timely oral report.

e. All Other Permit Violation Reporting

The Permittee must report all permit violations, which do not require immediate or within 24 hours reporting, when it submits monitoring reports for S3.A ("Reporting"). The reports must contain the information listed in subpart c, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

f. Report Submittal

The Permittee must submit reports to the address listed in S3.A.

F. Other Reporting

1. Spills of Oil or Hazardous Materials

The Permittee must report a spill of oil or hazardous materials in accordance with the requirements of Revised Code of Washington (RCW) 90.56.280 and chapter 173-303-145. You can obtain further instructions at the following website: <http://www.ecy.wa.gov/programs/spills/other/reportaspill.htm>.

2. Failure to Submit Relevant or Correct Facts

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to Ecology, it must submit such facts or information promptly.

G. Maintaining a Copy of this Permit

The Permittee must keep a copy of this permit at the facility and make it available upon request to Ecology inspectors.

S4. FACILITY LOADING

A. Design Criteria

Flows or waste loadings of the following design criteria for the permitted treatment facility shall not be exceeded:

Average flow for the maximum month: 0.57 MGD

Peak day flow:	1.1 MGD
BOD ₅ loading for maximum month:	742 lbs/day
TSS loading for maximum month:	1,252 lbs/day

B. Plans for Maintaining Adequate Capacity

The Permittee shall submit to Ecology a plan and a schedule for continuing to maintain capacity when:

1. The actual flow or waste load reaches 85 percent of any one of the design criteria in S4.A for three consecutive months; or
2. The projected increase would reach design capacity within five years,

whichever occurs first. If such a plan is required, it shall contain a plan and schedule for continuing to maintain capacity. The capacity as outlined in this plan must be sufficient to achieve the effluent limitations and other conditions of this permit. This plan shall address any of the following actions or any others necessary to meet the objective of maintaining capacity.

1. Analysis of the present design including the introduction of any process modifications that would establish the ability of the existing facility to achieve the effluent limits and other requirements of this permit at specific levels in excess of the existing design criteria specified in paragraph A above.
2. Reduction or elimination of excessive infiltration and inflow of uncontaminated ground and surface water into the sewer system.
3. Limitation on future sewer extensions or connections or additional waste loads.
4. Modification or expansion of facilities necessary to accommodate increased flow or waste load.
5. Reduction of industrial or commercial flows or waste loads to allow for increasing sanitary flow or waste load.

Engineering documents associated with the plan must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by Ecology prior to any construction. If the Permittee intends to apply for state or federal funding for the design or construction of a facility project, the plan must also meet the requirements of a "Facility Plan" as described in 40 CFR 35.2030. The plan shall specify any contracts, ordinances, methods for financing, or other arrangements necessary to achieve this objective.

C. Duty to Mitigate

The Permittee is required to take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

D. Notification of New or Altered Sources

The Permittee shall submit written notice to Ecology whenever any new discharge or a substantial change in volume or character of an existing discharge into the Publicly Owned Treatment Works (POTW) is proposed which: (1) would interfere with the operation of, or exceed the design capacity of, any portion of the POTW; (2) is not part of an approved general sewer plan or approved plans and specifications; or (3) would be subject to pretreatment standards under 40 CFR Part 403 and Section 307(b) of the Clean Water Act. This notice shall include an evaluation of the POTW's ability to adequately transport and treat the added flow and/or waste load, the quality and volume of effluent to be discharged to the POTW, and the anticipated impact on the Permittee's effluent [40 CFR 122.42(b)].

E. Infiltration and Inflow Evaluation

1. The Permittee shall conduct an infiltration and inflow evaluation. Refer to the U.S. EPA publication, *I/I Analysis and Project Certification*, available as Publication No. 97-03 at: Publications Office, Department of Ecology, P.O. Box 47600, Olympia, Washington 98504-7600. Plant monitoring records may be used to assess measurable infiltration and inflow.
2. A report shall be prepared which summarizes any measurable infiltration and inflow. If infiltration and inflow have increased by more than 15 percent from that found in the first report based on equivalent rainfall, the report shall contain a plan and a schedule for: (1) locating the sources of infiltration and inflow; and (2) correcting the problem.
3. The report must be submitted by **June 30, 2013**, and **annually** thereafter.

F. Wasteload Assessment

The Permittee shall conduct an annual assessment of their flow and waste load and submit a report to Ecology by **June 30, 2013**, and **annually** thereafter. The report shall contain the following: an indication of compliance or noncompliance with the permit effluent limitations; a comparison between the existing and design monthly average dry weather and wet weather flows, peak flows, BOD, and total suspended solids loadings; and (except for the first report) the percentage increase in these parameters since the last annual report. The report shall also state the present and design population or population equivalent, projected population growth rate, and the estimated date upon which the design capacity is projected to be reached, according to the most restrictive of the parameters above. The interval for review and reporting may be modified if Ecology determines that a different frequency is sufficient.

S5. OPERATION AND MAINTENANCE

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the

operation of back-up or auxiliary facilities or similar systems, which are installed by a Permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

A. Certified Operator

An operator certified for at least a Class II plant by the state of Washington shall be in responsible charge of the day-to-day operation of the wastewater treatment plant. An operator certified for at least a Class I plant shall be in charge during all regularly scheduled shifts.

B. Operation & Maintenance Program

The Permittee shall institute an adequate operation and maintenance program for the entire sewage system. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, as well as the sewage system and pumping stations. Such records shall clearly specify the frequency and type of maintenance recommended by the manufacturer and shall show the frequency and type of maintenance performed. These maintenance records shall be available for inspection at all times.

C. Short-term Reduction

If a Permittee contemplates a reduction in the level of treatment that would cause a violation of permit discharge limitations on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee shall give written notification to Ecology, if possible, 30 days prior to such activities, detailing the reasons for, length of time of, and the potential effects of the reduced level of treatment. This notification does not relieve the Permittee of its obligations under this permit.

D. Electrical Power Failure

The Permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated wastes or wastes not treated in accordance with the requirements of this permit during electrical power failure at the treatment plant and/or sewage lift stations either by means of alternate power sources, standby generator, or retention of inadequately treated wastes.

The Permittee shall maintain Reliability Class II (EPA 430/9-74-001) at the wastewater treatment plant, which requires a backup power source sufficient to operate all vital components and critical lighting and ventilation during peak wastewater flow conditions, except vital components used to support the secondary processes (i.e., mechanical aerators or aeration basin air compressors) need not be operable to full levels of treatment, but shall be sufficient to maintain the biota.

E. Prevent Connection of Inflow

The Permittee shall strictly enforce their sewer ordinances and not allow the connection of inflow (roof drains, foundation drains, etc.) to the sanitary sewer system.

F. Bypass Procedures

Bypass, which is the intentional diversion of waste streams from any portion of a treatment facility, is prohibited, and Ecology may take enforcement action against a Permittee for bypass unless one of the following circumstances (1, 2, or 3) is applicable.

1. Bypass for essential maintenance without the potential to cause violation of permit limits or conditions.

Bypass is authorized if it is for essential maintenance and does not have the potential to cause violations of limitations or other conditions of this permit, or adversely impact public health as determined by Ecology prior to the bypass. The Permittee shall submit prior notice, if possible at least 10 days before the date of the bypass.

2. Bypass which is unavoidable, unanticipated and results in noncompliance of this permit.

This bypass is permitted only if:

- a. Bypass is unavoidable to prevent loss of life, personal injury, or severe property damage. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass.
- b. There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment downtime (but not if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance), or transport of untreated wastes to another treatment facility.
- c. Ecology is properly notified of the bypass as required in condition S3.E of this permit.

3. Bypass which is anticipated and has the potential to result in noncompliance of this permit.

The Permittee shall notify Ecology at least 30 days before the planned date of bypass. The notice shall contain: (1) a description of the bypass and its cause; (2) an analysis of all known alternatives which would eliminate, reduce, or mitigate the need for bypassing; (3) a cost-effectiveness analysis of alternatives including comparative resource damage assessment; (4) the minimum and maximum duration of bypass under each alternative; (5) a recommendation as to the preferred alternative for conducting the bypass; (6) the projected date of bypass initiation; (7) a statement of compliance with State Environmental Policy Act (SEPA); (8) a request for modification of water quality standards as provided

for in WAC 173-201A-410, if an exceedance of any water quality standard is anticipated; and (9) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass.

For probable construction bypasses, the need to bypass is to be identified as early in the planning process as possible. The analysis required above shall be considered during preparation of the engineering report or facilities plan and plans and specifications and shall be included to the extent practical. In cases where the probable need to bypass is determined early, continued analysis is necessary up to and including the construction period in an effort to minimize or eliminate the bypass.

Ecology will consider the following prior to issuing an administrative order for this type bypass:

- a. If the bypass is necessary to perform construction or maintenance-related activities essential to meet the requirements of this permit.
- b. If there are feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, stopping production, maintenance during normal periods of equipment down time, or transport of untreated wastes to another treatment facility.
- c. If the bypass is planned and scheduled to minimize adverse effects on the public and the environment.

After consideration of the above and the adverse effects of the proposed bypass and any other relevant factors, Ecology will approve or deny the request. The public shall be notified and given an opportunity to comment on bypass incidents of significant duration, to the extent feasible. Approval of a request to bypass will be by administrative order issued by Ecology under Revised Code of Washington (RCW) 90.48.120.

G. Operations and Maintenance Manual

The approved Operations and Maintenance (O&M) Manual shall be kept available at the treatment plant and all operators shall follow the instructions and procedures of this manual.

The O&M Manual shall be reviewed by the Permittee at least annually and the Permittee shall confirm this review by letter to Ecology by **April 15, 2014**, and **annually** thereafter. Substantial changes or updates to the O&M Manual shall be submitted to Ecology for review and approval whenever they are incorporated into the manual.

S6. PRETREATMENT

A. General Requirements

The Permittee shall work with Ecology to ensure that all commercial and industrial users of the POTW are in compliance with the pretreatment regulations promulgated in 40 CFR

Part 403 and any additional regulations that may be promulgated under Section 307(b) (pretreatment) and 308 (reporting) of the Federal Clean Water Act.

B. Wastewater Discharge Permit Required

The Permittee shall not allow significant industrial users (SIUs) to discharge wastewater to the Permittee's sewerage system until such user has received a wastewater discharge permit from Ecology in accordance with Chapter 90.48 RCW and Chapter 173-216 WAC, as amended.

C. Identification and Reporting of Existing, New, and Proposed Industrial Users

1. The Permittee shall take continuous, routine measures to identify all existing, new, and proposed SIUs and potential significant industrial users (PSIUs) discharging or proposing to discharge to the Permittee's sewerage system (see Appendix B of Fact Sheet for definitions).
2. Within 30 days of becoming aware of an unpermitted existing, new, or proposed industrial user who may be an SIU, the Permittee shall notify such user by registered mail that, if classified as an SIU, they shall be required to apply to Ecology and obtain a State Waste Discharge Permit. A copy of this notification letter shall also be sent to Ecology within this same 30-day period.
3. The Permittee shall also notify all PSIUs, as they are identified, that if their classification should change to an SIU, they shall be required to apply to Ecology for a State Waste Discharge Permit within 30 days of such change.

D. Annual Submittal of List of Industrial Users

The Permittee shall submit annually to Ecology a list summarizing all existing and proposed SIUs and PSIUs. This list must be received by Ecology by **January 30, 2014**, and **annually** thereafter.

E. Duty to Enforce Discharge Prohibitions

1. In accordance with 40 CFR 403.5(a), the Permittee shall not authorize or knowingly allow the discharge of any pollutants into its POTW which cause pass through or interference, or which otherwise violates general or specific discharge prohibitions contained in 40 CFR Part 403.5 or WAC-173-216-060.
2. The Permittee shall not authorize or knowingly allow the introduction of any of the following into their treatment works:
 - a. Pollutants which create a fire or explosion hazard in the POTW (including, but not limited to waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21).
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, or greater than 11.0

standard units, unless the works are specifically designed to accommodate such discharges.

- c. Solid or viscous pollutants in amounts that could cause obstruction to the flow in sewers or otherwise interfere with the operation of the POTW.
 - d. Any pollutant, including oxygen demanding pollutants, (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW.
 - e. Petroleum oil, nonbiodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through.
 - f. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity which may cause acute worker health and safety problems.
 - g. Heat in amounts that will inhibit biological activity in the POTW resulting in interference but in no case heat in such quantities such that the temperature at the POTW headworks exceeds 40°C (104°F) unless Ecology, upon request of the Permittee, approves, in writing, alternate temperature limits.
 - h. Any trucked or hauled pollutants, except at discharge points designated by the Permittee.
 - i. Wastewaters prohibited to be discharged to the POTW by the Dangerous Waste Regulations (Chapter 173-303 WAC), unless authorized under the Domestic Sewage Exclusion (WAC 173-303-071).
3. All of the following are prohibited from discharge to the POTW unless approved in writing by Ecology under extraordinary circumstances (such as a lack of direct discharge alternatives due to combined sewer service or the need to augment sewage flows due to septic conditions):
 - a. Noncontact cooling water in significant volumes.
 - b. Stormwater, and other direct inflow sources.
 - c. Wastewaters significantly affecting system hydraulic loading, which do not require treatment, or would not be afforded a significant degree of treatment by the system.
 4. The Permittee shall notify Ecology if any industrial user violates the prohibitions listed in this section.

S7. RESIDUAL SOLIDS

Residual solids include screenings, grit, scum, primary sludge, waste activated sludge, and other solid waste. The Permittee shall store and handle all residual solids in such a manner so as to

prevent their entry into state ground or surface waters. The Permittee shall not discharge leachate from residual solids to state surface or ground waters.

S8. APPLICATION FOR PERMIT RENEWAL

The Permittee shall submit an application for renewal by **December 1, 2017**.

S9. RECEIVING WATER AND EFFLUENT STUDY

The Permittee must collect information on the effluent and receiving water for temperature to determine if the effluent has a reasonable potential to cause a violation of the water quality standards. If reasonable potential exists, Ecology will use this information to calculate effluent limits.

A. Monitoring

1. Temperature in the effluent and in the ambient water upstream and downstream of the outfall must be recorded during the months of May through September of each year, beginning in **May 1, 2014**. Temperature monitoring devices will be identified and located in accordance with the most recent Ecology-approved sampling and quality assurance plan for the study.
2. Temperature may be monitored using micro-recording temperature probes known as thermistors. Protocols for continuous temperature sampling are included in Module 6 of Ecology's Quality Assurance Project Plan Development Tool. This document is available online at <http://www.ecy.wa.gov/programs/eap/qa/docs/QAPPtool/index.html>.

B. Reporting

1. Temperature monitoring data must be reported as: daily maximum.
2. Temperature data for May-September period must be submitted to Ecology by **December 15, 2014**, and **annually** thereafter.

S10. OUTFALL EVALUATION

The Permittee shall inspect, once per permit cycle, the submerged portion of the outfall line and diffuser to document its integrity and continued function. If conditions allow for a photographic verification, it shall be included in the report. By **September 30, 2015**, and once per permit cycle thereafter, the inspection report shall be submitted to Ecology.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to Ecology shall be signed and certified.

- A. All permit applications shall be signed by either a principal executive officer or a ranking elected official.
- B. All reports required by this permit and other information requested by Ecology shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above and submitted to Ecology.
 - 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under paragraph B.2 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph B.2 above must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
- D. Certification. Any person signing a document under this section shall make the following certification:

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

G2. RIGHT OF INSPECTION AND ENTRY

The Permittee shall allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

- A. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.

- B. To have access to and copy - at reasonable times and at reasonable cost - any records required to be kept under the terms and conditions of this permit.
- C. To inspect - at reasonable times - any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
- D. To sample or monitor - at reasonable times - any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G3. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon Ecology's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

- A. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
 - 1. Violation of any permit term or condition.
 - 2. Obtaining a permit by misrepresentation or failure to disclose all relevant facts.
 - 3. A material change in quantity or type of waste disposal.
 - 4. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination [40 CFR Part 122.64(3)].
 - 5. A change in any condition that requires either a temporary or permanent reduction, or elimination of any discharge or sludge use or disposal practice controlled by the permit [40 CFR Part 122.64(4)].
 - 6. Nonpayment of fees assessed pursuant to RCW 90.48.465.
 - 7. Failure or refusal of the permittee to allow entry as required in RCW 90.48.090.
- B. The following are causes for modification but not revocation and reissuance except when the permittee requests or agrees:
 - 1. A material change in the condition of the waters of the state.
 - 2. New information not available at the time of permit issuance that would have justified the application of different permit conditions.
 - 3. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.

4. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.
 5. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.
 6. Ecology has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.
 7. Incorporation of an approved local pretreatment program into a municipality's permit.
- C. The following are causes for modification or alternatively revocation and reissuance:
1. Cause exists for termination for reasons listed in A1 through A7 of this section, and Ecology determines that modification or revocation and reissuance is appropriate.
 2. Ecology has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G8) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new permittee.

G4. REPORTING PLANNED CHANGES

The Permittee shall, as soon as possible, but no later than 60 days prior to the proposed changes, give notice to Ecology of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in: 1) the permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b); 2) a significant change in the nature or an increase in quantity of pollutants discharged; or 3) a significant change in the Permittee's sludge use or disposal practices. Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation of the terms and conditions of this permit.

G5. PLAN REVIEW REQUIRED

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications shall be submitted to Ecology for approval in accordance with Chapter 173-240 WAC. Engineering reports, plans, and specifications shall be submitted at least 180 days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities shall be constructed and operated in accordance with the approved plans.

G6. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in this permit shall be construed as excusing the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. TRANSFER OF THIS PERMIT

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the Permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to Ecology.

A. Transfers by Modification

Except as provided in paragraph (B) below, this permit may be transferred by the Permittee to a new owner or operator only if this permit has been modified or revoked and reissued under 40 CFR 122.62(b)(2), or a minor modification made under 40 CFR 122.63(d), to identify the new Permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

B. Automatic Transfers

This permit may be automatically transferred to a new Permittee if:

1. The Permittee notifies Ecology at least 30 days in advance of the proposed transfer date.
2. The notice includes a written agreement between the existing and new Permittees containing a specific date transfer of permit responsibility, coverage, and liability between them.
3. Ecology does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under this subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

G8. REDUCED PRODUCTION FOR COMPLIANCE

The Permittee, in order to maintain compliance with its permit, shall control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G9. REMOVED SUBSTANCES

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G10. DUTY TO PROVIDE INFORMATION

The Permittee shall submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee shall also submit to Ecology upon request, copies of records required to be kept by this permit.

G11. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G12. ADDITIONAL MONITORING

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G13. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by Ecology.

G14. PENALTIES FOR VIOLATING PERMIT CONDITIONS

Any person who is found guilty of willfully violating the terms and conditions of this permit shall be deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to \$10,000 and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit shall incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to \$10,000 for every such violation. Each and every such violation shall be a separate and distinct offense, and in case of a continuing violation, every day's continuance shall be deemed to be a separate and distinct violation.

G15. UPSET

Definition – “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an upset occurred and that the Permittee can identify the cause(s) of the upset; 2) the permitted facility was being properly operated at the time of the upset; 3) the Permittee submitted notice of the upset as required in condition S3.E; and 4) the Permittee complied with any remedial measures required under S4.C of this permit.

In any enforcement proceeding the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G16. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G17. DUTY TO COMPLY

The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G18. TOXIC POLLUTANTS

The Permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G19. PENALTIES FOR TAMPERING

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than two years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this Condition, punishment shall be a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four years, or by both.

G20. REPORTING ANTICIPATED NON-COMPLIANCE

The Permittee shall give advance notice to Ecology by submission of a new application or supplement thereto at least 180 days prior to commencement of such discharges, of any facility expansions, production increases, or other planned changes, such as process modifications, in the permitted facility or activity which may result in noncompliance with permit limits or conditions. Any maintenance of facilities, which might necessitate unavoidable interruption of operation and degradation of effluent quality, shall be scheduled during noncritical water quality periods and carried out in a manner approved by Ecology.

G21. REPORTING OTHER INFORMATION

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to Ecology, it shall promptly submit such facts or information.

G22. COMPLIANCE SCHEDULES

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

APPENDIX A

LIST OF POLLUTANTS WITH ANALYTICAL METHODS, DETECTION LIMITS AND QUANTITATION LEVELS

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for permit and application required monitoring unless:

- Another permit condition specifies other methods, detection levels, or quantitation levels.
- The method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136.

If the Permittee uses an alternative method, not specified in the permit and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

If the Permittee is unable to obtain the required DL and QL in its effluent due to matrix effects, the Permittee must submit a matrix-specific detection limit (MDL) and a quantitation limit (QL) to Ecology with appropriate laboratory documentation.

When the permit requires the Permittee to measure the base neutral compounds in the list of priority pollutants, it must measure all of the base neutral pollutants listed in the table below. The list includes EPA required base neutral priority pollutants and several additional polynuclear aromatic hydrocarbons (PAHs). The Water Quality Program added several PAHs to the list of base neutrals below from Ecology’s Persistent Bioaccumulative Toxics (PBT) List. It only added those PBT parameters of interest to Appendix A that did not increase the overall cost of analysis unreasonably.

Ecology added this appendix to the permit in order to reduce the number of analytical “non-detects” in permit-required monitoring and to measure effluent concentrations near or below criteria values where possible at a reasonable cost.

CONVENTIONAL PARAMETERS

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
Biochemical Oxygen Demand	SM5210-B		2 mg/L
Chemical Oxygen Demand	SM5220-D		10 mg/L
Total Organic Carbon	SM5310-B/C/D		1 mg/L
Total Suspended Solids	SM2540-D		5 mg/L
Total Ammonia (as N)	SM4500-NH3-B and C/D/E/G/H		20
Flow	Calibrated device		
Dissolved oxygen	SM4500-OC/OG		0.2 mg/L
Temperature (max. 7-day avg.)	Analog recorder or Use micro-recording devices		0.2° C

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
	known as thermistors		
pH	SM4500-H ⁺ B	N/A	N/A

NONCONVENTIONAL PARAMETERS

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
Total Alkalinity	SM2320-B		5 mg/L as CaCO ₃
Chlorine, Total Residual	SM4500 Cl G		50.0
Color	SM2120 B/C/E		10 color units
Fecal Coliform	SM 9221E,9222	N/A	Specified in method - sample aliquot dependent
Fluoride (16984-48-8)	SM4500-F E	25	100
Nitrate + Nitrite Nitrogen (as N)	SM4500-NO ₃ - E/F/H		100
Nitrogen, Total Kjeldahl (as N)	SM4500-N _{org} B/C and SM4500NH ₃ -B/C/D/EF/G/H		300
Soluble Reactive Phosphorus (as P)	SM4500- PE/PF	3	10
Phosphorus, Total (as P)	SM 4500 PB followed by SM4500-PE/PF	3	10
Oil and Grease (HEM)	1664 A or B	1,400	5,000
Salinity	SM2520-B		3 practical salinity units or scale (PSU or PSS)
Settleable Solids	SM2540 -F		100
Sulfate (as mg/L SO ₄)	SM4110-B		200
Sulfide (as mg/L S)	SM4500-S ²⁻ F/D/E/G		200
Sulfite (as mg/L SO ₃)	SM4500-SO ₃ B		2000
Total Coliform	SM 9221B, 9222B, 9223B	N/A	Specified in method - sample aliquot dependent
Total dissolved solids	SM2540 C		20 mg/L
Total Hardness	SM2340B		200 as CaCO ₃
Aluminum, Total (7429-90-5)	200.8	2.0	10
Barium Total (7440-39-3)	200.8	0.5	2.0
BTEX (benzene +toluene + ethylbenzene + m,o,p xylenes)	EPA SW 846 8021/8260	1	2
Boron Total (7440-42-8)	200.8	2.0	10.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
Cobalt, Total (7440-48-4)	200.8	0.05	0.25
Iron, Total (7439-89-6)	200.7	12.5	50
Magnesium, Total (7439-95-4)	200.7	10	50
Molybdenum, Total (7439-98-7)	200.8	0.1	0.5
Manganese, Total (7439-96-5)	200.8	0.1	0.5
NWTPH Dx	Ecology NWTPH Dx	250	250
NWTPH Gx	Ecology NWTPH Gx	250	250
Tin, Total (7440-31-5)	200.8	0.3	1.5
Titanium, Total (7440-32-6)	200.8	0.5	2.5

PRIORITY POLLUTANTS

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total (7440-36-0)	200.8	0.3	1.0
Arsenic, Total (7440-38-2)	200.8	0.1	0.5
Beryllium, Total (7440-41-7)	200.8	0.1	0.5
Cadmium, Total (7440-43-9)	200.8	0.05	0.25
Chromium (hex) dissolved (18540-29-9)	SM3500-Cr EC	0.3	1.2
Chromium, Total (7440-47-3)	200.8	0.2	1.0
Copper, Total (7440-50-8)	200.8	0.4	2.0
Lead, Total (7439-92-1)	200.8	0.1	0.5
Mercury, Total (7439-97-6)	1631E	0.0002	0.0005
Nickel, Total (7440-02-0)	200.8	0.1	0.5
Selenium, Total (7782-49-2)	200.8	1.0	1.0
Silver, Total (7440-22-4)	200.8	0.04	0.2
Thallium, Total (7440-28-0)	200.8	0.09	0.36
Zinc, Total (7440-66-6)	200.8	0.5	2.5
Cyanide, Total (57-12-5)	335.4	5	10
Cyanide, Weak Acid Dissociable	SM4500-CN I	5	10
Cyanide, Free Amenable to Chlorination (Available Cyanide)	SM4500-CN G	5	10
Phenols, Total	EPA 420.1		50
ACID COMPOUNDS			
2-Chlorophenol (95-57-8)	625	1.0	2.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
2,4-Dichlorophenol (120-83-2)	625	0.5	1.0
2,4-Dimethylphenol (105-67-9)	625	0.5	1.0
4,6-dinitro-o-cresol (534-52-1) (2-methyl-4,6,-dinitrophenol)	625/1625B	1.0	2.0
2,4 dinitrophenol (51-28-5)	625	1.0	2.0
2-Nitrophenol (88-75-5)	625	0.5	1.0
4-nitrophenol (100-02-7)	625	0.5	1.0
Parachlorometa cresol (59-50-7) (4-chloro-3-methylphenol)	625	1.0	2.0
Pentachlorophenol (87-86-5)	625	0.5	1.0
Phenol (108-95-2)	625	2.0	4.0
2,4,6-Trichlorophenol (88-06-2)	625	2.0	4.0
VOLATILE COMPOUNDS			
Acrolein (107-02-8)	624	5	10
Acrylonitrile (107-13-1)	624	1.0	2.0
Benzene (71-43-2)	624	1.0	2.0
Bromoform (75-25-2)	624	1.0	2.0
Carbon tetrachloride (56-23-5)	624/601 or SM6230B	1.0	2.0
Chlorobenzene (108-90-7)	624	1.0	2.0
Chloroethane (75-00-3)	624/601	1.0	2.0
2-Chloroethylvinyl Ether (110-75-8)	624	1.0	2.0
Chloroform (67-66-3)	624 or SM6210B	1.0	2.0
Dibromochloromethane (124-48-1)	624	1.0	2.0
1,2-Dichlorobenzene (95-50-1)	624	1.9	7.6
1,3-Dichlorobenzene (541-73-1)	624	1.9	7.6
1,4-Dichlorobenzene (106-46-7)	624	4.4	17.6
Dichlorobromomethane (75-27-4)	624	1.0	2.0
1,1-Dichloroethane (75-34-3)	624	1.0	2.0
1,2-Dichloroethane (107-06-2)	624	1.0	2.0
1,1-Dichloroethylene (75-35-4)	624	1.0	2.0
1,2-Dichloropropane (78-87-5)	624	1.0	2.0
1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene) (542-75-6) 3	624	1.0	2.0
Ethylbenzene (100-41-4)	624	1.0	2.0
Methyl bromide (74-83-9)	624/601	5.0	10.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
(Bromomethane)			
Methyl chloride (74-87-3) (Chloromethane)	624	1.0	2.0
Methylene chloride (75-09-2)	624	5.0	10.0
1,1,2,2-Tetrachloroethane (79-34-5)	624	1.9	2.0
Tetrachloroethylene (127-18-4)	624	1.0	2.0
Toluene (108-88-3)	624	1.0	2.0
1,2-Trans-Dichloroethylene (156-60-5) (Ethylene dichloride)	624	1.0	2.0
1,1,1-Trichloroethane (71-55-6)	624	1.0	2.0
1,1,2-Trichloroethane (79-00-5)	624	1.0	2.0
Trichloroethylene (79-01-6)	624	1.0	2.0
Vinyl chloride (75-01-4)	624/SM6200B	1.0	2.0
BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene (83-32-9)	625	0.2	0.4
Acenaphthylene (208-96-8)	625	0.3	0.6
Anthracene (120-12-7)	625	0.3	0.6
Benzidine (92-87-5)	625	12	24
Benzyl butyl phthalate (85-68-7)	625	0.3	0.6
Benzo(a)anthracene (56-55-3)	625	0.3	0.6
Benzo(b)fluoranthene (3,4-benzofluoranthene) (205-99-2) ⁴	610/625	0.8	1.6
Benzo(j)fluoranthene (205-82-3)⁴	625	0.5	1.0
Benzo(k)fluoranthene (11,12-benzofluoranthene) (207-08-9) ⁴	610/625	0.8	1.6
Benzo(r,s,t)pentaphene (189-55-9)	625	0.5	1.0
Benzo(a)pyrene (50-32-8)	610/625	0.5	1.0
Benzo(ghi)Perylene (191-24-2)	610/625	0.5	1.0
Bis(2-chloroethoxy)methane (111-91-1)	625	5.3	21.2
Bis(2-chloroethyl)ether (111-44-4)	611/625	0.3	1.0
Bis(2-chloroisopropyl)ether (39638-32-9)	625	0.3	0.6
Bis(2-ethylhexyl)phthalate (117-81-7)	625	0.1	0.5
4-Bromophenyl phenyl ether	625	0.2	0.4

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
(101-55-3)			
2-Chloronaphthalene (91-58-7)	625	0.3	0.6
4-Chlorophenyl phenyl ether (7005-72-3)	625	0.3	0.5
Chrysene (218-01-9)	610/625	0.3	0.6
Dibenzo (a,h)acridine (226-36-8)	610M/625M	2.5	10.0
Dibenzo (a,j)acridine (224-42-0)	610M/625M	2.5	10.0
Dibenzo(a-h)anthracene (53-70-3)(1,2,5,6-dibenzanthracene)	625	0.8	1.6
Dibenzo(a,e)pyrene (192-65-4)	610M/625M	2.5	10.0
Dibenzo(a,h)pyrene (189-64-0)	625M	2.5	10.0
3,3-Dichlorobenzidine (91-94-1)	605/625	0.5	1.0
Diethyl phthalate (84-66-2)	625	1.9	7.6
Dimethyl phthalate (131-11-3)	625	1.6	6.4
Di-n-butyl phthalate (84-74-2)	625	0.5	1.0
2,4-dinitrotoluene (121-14-2)	609/625	0.2	0.4
2,6-dinitrotoluene (606-20-2)	609/625	0.2	0.4
BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Di-n-octyl phthalate (117-84-0)	625	0.3	0.6
1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	1625B	5.0	20
Fluoranthene (206-44-0)	625	0.3	0.6
Fluorene (86-73-7)	625	0.3	0.6
Hexachlorobenzene (118-74-1)	612/625	0.3	0.6
Hexachlorobutadiene (87-68-3)	625	0.5	1.0
Hexachlorocyclopentadiene (77-47-4)	1625B/625	0.5	1.0
Hexachloroethane (67-72-1)	625	0.5	1.0
Indeno(1,2,3-cd)Pyrene (193-39-5)	610/625	0.5	1.0
Isophorone (78-59-1)	625	0.5	1.0
3-Methyl cholanthrene (56-49-5)	625	2.0	8.0
Naphthalene (91-20-3)	625	0.3	0.6
Nitrobenzene (98-95-3)	625	0.5	1.0
N-Nitrosodimethylamine (62-75-9)	607/625	2.0	4.0
N-Nitrosodi-n-propylamine (621-64-7)	607/625	0.5	1.0
N-Nitrosodiphenylamine (86-	625	0.5	1.0

Pollutant & CAS No. (if available)	Recommended Analytical Protocol	Detection (DL)¹ µg/L unless specified	Quantitation Level (QL)² µg/L unless specified
30-6)			
Perylene (198-55-0)	625	1.9	7.6
Phenanthrene (85-01-8)	625	0.3	0.6
Pyrene (129-00-0)	625	0.3	0.6
1,2,4-Trichlorobenzene (120-82-1)	625	0.3	0.6
DIOXIN			
2,3,7,8-Tetra-Chlorodibenzo-P-Dioxin (176-40-16) (2,3,7,8 TCDD)	1613B	1.3 pg/L	5 pg/L
PESTICIDES/PCBs			
Aldrin (309-00-2)	608	0.025	0.05
alpha-BHC (319-84-6)	608	0.025	0.05
beta-BHC (319-85-7)	608	0.025	0.05
gamma-BHC (58-89-9)	608	0.025	0.05
delta-BHC (319-86-8)	608	0.025	0.05
Chlordane (57-74-9) ⁵	608	0.025	0.05
4,4'-DDT (50-29-3)	608	0.025	0.05
4,4'-DDE (72-55-9)	608	0.025	0.05 ¹⁰
4,4' DDD (72-54-8)	608	0.025	0.05
Dieldrin (60-57-1)	608	0.025	0.05
alpha-Endosulfan (959-98-8)	608	0.025	0.05
beta-Endosulfan (33213-65-9)	608	0.025	0.05
Endosulfan Sulfate (1031-07-8)	608	0.025	0.05
Endrin (72-20-8)	608	0.025	0.05
Endrin Aldehyde (7421-93-4)	608	0.025	0.05
Heptachlor (76-44-8)	608	0.025	0.05
Heptachlor Epoxide (1024-57-3)	608	0.025	0.05
PCB-1242 (53469-21-9) ⁶	608	0.25	0.5
PCB-1254 (11097-69-1)	608	0.25	0.5
PCB-1221 (11104-28-2)	608	0.25	0.5
PCB-1232 (11141-16-5)	608	0.25	0.5
PCB-1248 (12672-29-6)	608	0.25	0.5
PCB-1260 (11096-82-5)	608	0.13	0.5
PCB-1016 (12674-11-2) ⁶	608	0.13	0.5
Toxaphene (8001-35-2)	608	0.24	0.5

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.

2. Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to $(1, 2, \text{ or } 5) \times 10^n$, where n is an integer. (64 FR 30417). ALSO GIVEN AS:

The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).
3. NWTPH Dx - Northwest Total Petroleum Hydrocarbons Diesel Extended Range – see <http://www.ecy.wa.gov/biblio/97602.html>
4. NWTPH Gx - Northwest Total Petroleum Hydrocarbons Gasoline Extended Range – see <http://www.ecy.wa.gov/biblio/97602.html>
5. 1, 3-dichloroproylene (mixed isomers) You may report this parameter as two separate parameters: cis-1, 3-dichloropropene (10061-01-5) and trans-1, 3-dichloropropene (10061-02-6).
6. Total Benzofluoranthenes - Because Benzo(b)fluoranthene, Benzo(j)fluoranthene and Benzo(k)fluoranthene co-elute you may report these three isomers as total benzofluoranthenes.
7. Chlordane – You may report alpha-chlordane (5103-71-9) and gamma-chlordane (5103-74-2) in place of chlordane (57-74-9). If you report alpha and gamma-chlordane, the DL/PQLs that apply are 0.025/0.050.
8. PCB 1016 & PCB 1242 – You may report these two PCB compounds as one parameter called PCB 1016/1242.

ADDENDUM TO THE FACT SHEET
FOR NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM (NPDES)
PERMIT NO. WA0024040

1. GENERAL INFORMATION

Facility: City of McCleary Wastewater Treatment Plant
700 West Maple Street
McCleary, WA 98557

2. APPLICATION AND COMPLIANCE REVIEW

The city of McCleary submitted an application to the Department of Ecology (Ecology) on February 21, 2012; and March 2, 2012, for permit reissuance, and Ecology accepted it on March 7, 2012. Ecology has sufficiently reviewed the application, discharge monitoring reports, and other facility information in enough detail to ensure that:

- The city of McCleary has complied with the terms, conditions, requirements and schedules of compliance of the expired permit. An issue for the city of McCleary is the level of staffing at the treatment plant at the time of this permit re-authorization. To remain in compliance, the city will need to keep the plant staffed at the level described in the Ecology-approved Operations and Maintenance Manual.
- Ecology has up-to date information on the waste treatment practices and the nature, content, volume, and frequency of its discharge.
- The discharge meets applicable effluent standards and limits, water quality standards, and other legally applicable requirements.

Since the issuance of the current permit, Ecology has not received any additional information, which indicates that environmental impacts from the discharge warrant a complete renewal of the permit. Therefore, Ecology chose to reauthorize this permit.

3. PERMIT REAUTHORIZATION

When Ecology reauthorizes a discharge permit it essentially reissues the permit with the existing limits, terms and conditions. Alternatively, when Ecology renews a permit it re-evaluates the impact of the discharge on the receiving water which may lead to changes in the limits, terms and conditions of the permit.

The permit reauthorization process, along with the renewal of high priority permits, allows Ecology to reissue permits in a timely manner and minimize the number of active permits that have passed their expiration dates. Ecology assesses each permit that is expiring and due for reissuance and compares it with other permits due for reissuance when it plans its workload for the upcoming year.

This fact sheet addendum accompanies the permit, which Ecology proposes to reauthorize for the discharge of wastewater to East Fork Wildcat Creek. The previous fact sheet explains the basis for the discharge limitations and conditions of the reauthorized permit and remains as part of the administrative record.

4. PERMIT LIMITS AND CONDITIONS

The reauthorized permit is virtually identical to the previous permit issued on May 23, 2008, with a few exceptions identified below. Ecology removed the completed report requirements that do not require additional or continued assessment. The proposed reauthorized permit includes:

- The discharge limits and conditions in effect at the time of expiration of the previous permit.
- Changes to the submittal dates for reports from those in the previous permit.
- Adjusted dates for the other necessary compliance and submittal requirements carried over from the past permit.
- Ecology has retained the requirement for receiving water monitoring as the city has not collected sufficient data to date, in part due to the loss of equipment.
- A new requirement, Appendix A, which identifies the required test methods, detection levels and quantitation levels for the monitoring required in the proposed permit. Ecology added this requirement to ensure that facilities use test methods with detection levels that will detect pollutants at levels necessary to evaluate water quality standards.

5. PUBLIC PROCESS

Ecology must public notice the availability of the draft reauthorized permit at least 30 days before it reissues the permit [Washington Administrative Code (WAC) 173-220-050]. Ecology invites you to review and comment on its decision to reauthorize the permit (see **Appendix A-Public Involvement Information** for more detail on the Public Notice procedures).

After the public comment period has closed, Ecology will prepare a *Response to Comments* document and attach it to this fact sheet addendum. Ecology will respond to each comment and describe the resultant changes to the permit in this document. Ecology sends a copy of the *Response to Comments* to all parties that submitted comments.

6. PERMIT APPEAL PROCESS

Appendix B describes the permit appeal process.

7. RECOMMENDATION FOR PERMIT ISSUANCE

Ecology proposes to reissue this permit for five years.

APPENDIX A--PUBLIC INVOLVEMENT INFORMATION

Ecology proposes to reissue a permit to the city of McCleary. The permit includes wastewater discharge limits and other conditions. This fact sheet addendum describes the facility and Ecology's reasons for reauthorizing the permit conditions.

Ecology placed a Public Notice of Application on June 13, 2012; and June 20, 2012, in the *Daily World* to inform the public about the submitted application and to invite comment on the reissuance of this permit.

Ecology will place a Public Notice of Draft on March 12, 2013, in the *Daily World* to inform the public and to invite comment on the proposed draft National Pollutant Discharge Elimination System permit and fact sheet addendum.

The Notice –

- Tells where copies of the draft Permit and Fact Sheet are available for public evaluation (a local public library, the closest Regional or Field Office, posted on our website.).
- Offers to provide the documents in an alternate format to accommodate special needs.
- Urges people to submit their comments, in writing, before the end of the Comment Period
- Tells how to request a public hearing of comments about the proposed NPDES Permit.
- Explains the next step(s) in the permitting process.

Ecology has published a document entitled **Frequently Asked Questions about Effective Public Commenting** which is available on our website at <http://www.ecy.wa.gov/biblio/0307023.html>.

You may obtain further information from Ecology by telephone, 360-407-6279, by e-mail at carey.cholski@ecy.wa.gov, or by writing to the permit writer at the address listed below.

Water Quality Permit Coordinator
Department of Ecology
Southwest Regional Office
P.O. Box 47775
Olympia, WA 98504-7775

The primary authors of this permit and fact sheet addendum are Carey Cholski and Steve Ogle.

APPENDIX B --YOUR RIGHT TO APPEAL

You have a right to appeal this permit to the Pollution Control Hearing Board (PCHB) within 30 days of the date of receipt of the final permit. The appeal process is governed by chapter 43.21B RCW and chapter 371-08 WAC. "Date of receipt" is defined in RCW 43.21B.001(2) (see glossary).

To appeal you must do the following within 30 days of the date of receipt of this permit:

- File your appeal and a copy of this permit with the PCHB (see addresses below). Filing means actual receipt by the PCHB during regular business hours.
- Serve a copy of your appeal and this permit on Ecology in paper form - by mail or in person. (See addresses below.) E-mail is not accepted.

You must also comply with other applicable requirements in chapter 43.21B RCW and chapter 371-08 WAC.

ADDRESS AND LOCATION INFORMATION

Street Addresses	Mailing Addresses
Department of Ecology Attn: Appeals Processing Desk 300 Desmond Drive Southeast Lacey, WA 98503	Department of Ecology Attn: Appeals Processing Desk P.O. Box 47608 Olympia, WA 98504-7608
Pollution Control Hearings Board 1111 Israel Road Southwest, Suite 301 Tumwater, WA 98501	Pollution Control Hearings Board PO Box 40903 Olympia, WA 98504-0903

APPENDIX C – RESPONSE TO COMMENTS

Comment from Nicholas Bird, P.E., Director of Public Works, on behalf of the city of McCleary:

Comment #1:

Revise Page 21; Section 9; Subsection A.1: “Temperature in the effluent (after effluent reaeration) and in the ambient water upstream (approximately ~~25~~ 50 to 75 feet ~~after~~ above the confluence of Sam’s Canal) and downstream of the outfall (approximately 50 feet) must be recorded...” Justification for this request is that a foot path leading directly to current upstream location is thought to have been a contributing factor to the theft of the recording devices last year. By moving the recording location further upstream, we ensure that we are gathering data on Wildcat Creek and minimize the potential that theft of the recording device will be stolen again.

Response #1:

Ecology acknowledges the City’s concern with the potential for lost or vandalized equipment and is not opposed to the use of alternate monitoring locations, so long as the alternate locations provide reliable and representative temperature information. It should be noted that a single temperature monitoring device upstream of Sam’s Canal would not reflect temperature contributions associated with water discharged from the canal. As discussed in the fact sheet for the previous permit issued in 2007, the temperature effects of water from the canal appear to be significant and must be taken into account in order to adequately characterize ambient water upstream of the City’s effluent discharge. A potential mechanism to address this situation might be to monitor the temperature in the canal, as well as the temperature of Wildcat Creek upstream of the confluence with the canal. However, it is presently unclear that the City wishes to conduct additional temperature monitoring of the canal.

In order to provide the City with some flexibility regarding the precise locations where monitoring devices will be employed, Ecology has revised the permit language to generally require temperature monitoring upstream and downstream of the outfall. While the permit no longer specifies discreet monitoring locations, additional language had been added to this condition indicating that monitoring devices will be located in accordance with the most recently approved sampling and quality assurance plan for the study.

The revised permit language is consistent with other permits Ecology has issued requiring special monitoring studies, where details are generally left to the Quality Assurance Project Plan (QAPP). The current QAPP for the study is dated February 2008, and identifies monitoring locations that reflect the specific spatial locations cited under the terms of the previous permit. If the City wishes to alter these monitoring locations, an addendum to the current plan can be submitted to Ecology for review and approval, prior to initiation of the 2014 study period. It should be noted that such alternate locations proposed for use should be designed to procure representative temperature information upstream and downstream of the City’s outfall, sufficient to satisfy the requirements of WAC 173-201A-200(1)(c)(vi).

APPENDIX E
SEPA CHECKLIST

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background

1. Name of proposed project, if applicable: *General Sewer Plan*
2. Name of applicant: *City of McCleary*
3. Address and phone number of applicant and contact person:

Address:

Jon Martin, City Administrator
City of McCleary
100 South 3rd Street
McCleary, WA 98557

Additional Contact Info:

Jon Martin, City Administrator
360-495-3667
jonm@cityofmccleary.com

4. Date checklist prepared: *March 6, 2017*
5. Agency requesting checklist: *City of McCleary*
6. Proposed timing or schedule (including phasing, if applicable):

The General Sewer Plan will be reviewed by the Department of Ecology and comments will be received by the City. Once these comments are incorporated the City will adopt the Plan. The revised plan will be submitted to the Department of Ecology for approval. The Capital Improvement Program presented in the Plan will be used to budget for and implement improvements to the sewer system per the schedule in the Plan. Projects in the Plan will require a separate SEPA process and, when executed, these projects are expected to require individual permits and separate approvals from the Department of Ecology and other State agencies.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

None.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No.

10. List any government approvals or permits that will be needed for your proposal, if known.

The City of McCleary will need to adopt the General Sewer Plan. The Department of Ecology will need to approve the Plan.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The recommended improvements described in the Plan include the following two projects:

- *Installation of a non-potable water system at the WWTP in order to significantly reduce the use of potable water at the WWTP. This will be a system internal to the plant (i.e. it will not involve use of surface or groundwater).*
- *CIP 1: Upsize approximately 1,117 LF of 10" pipe located immediately upstream of the WWTP to 15" in order to adequately convey existing and future wet weather flows. During design, the possibility of increasing existing pipe slopes should be investigated, which may allow the use of 12" pipe instead of 15".*

In addition, the Plan presents a potential future force main route from the northern part of the City to the vicinity of the WWTP. If significant additional development happens in the northern or northwestern part of the City, this force main may be needed to provide adequate capacity in the collection system. However, because no such development is currently projected and because such a project would have to be primarily paid for by the developer, this project has not been incorporated into the plan as a Capital Improvement Project and is hence outside the scope of this SEPA checklist. Likewise, modifications to the sludge handling system at the WWTP are recommended for further study, but the Plan does not include any specific projects related to this issue.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed improvements described in the Plan are in the City of McCleary. See Figure 3-1 within the Plan for a Vicinity Map, Figure 3-2 for a map of the current sewer service area, Figure 3-3 for a topographic map of the City, Figure 6-4 for a map of the future sewer service area, and Figure 6-5 for an illustration of CIP 1.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)?

The hills in the eastern and southeastern part of the City have slopes up to approximately 20 percent.

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Soil	HSG	Area (a c)	Area (%)
Buckpeak silt loam	B	68.6	5.2%
Carstairs very gravelly loam	A	226.8	17.3%
Humptulips silt loam	B	52.5	4.0%
Lyre variant very gravelly sandy loam	C	321.8	24.6%
Melbourne silt loam	B	33.2	2.5%
Montesa silt loam	C	43.3	3.3%
Nemah silty clay loam	D	103.0	7.9%
Norma sandy loam	D	12.9	1.0%
Olympic clay loam	B	116.0	8.9%
Pits, gravel		8.1	0.6%
Salzer silty clay	D	50.9	3.9%
Schneider very gravelly silt loam	B	7.4	0.6%
Tebo silt loam	B	201.1	15.4%
Udipsamments	A	56.2	4.3%
Water		6.1	0.5%
Total		1,308	100%

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

None known.

- e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

This quantity will vary by project.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion could occur if excavated areas are not protected by erosion control measures.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

The proposed projects are not anticipated to significantly impact the amount of impervious surface within the City.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Erosion control measures will include silt fencing and stockpiling and covering of excavated earth to be used as fill.

2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Exhaust fumes from construction equipment.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Vehicles and equipment used in construction and/or operation and maintenance of the water system will be equipped with approved emissions control devices.

3. Water

- a. Surface Water:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

East Fork Wildcat Creek.

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No.

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

Not applicable.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

None of the proposed projects will significantly increase stormwater runoff.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Erosion control during construction.

4. Plants

a. Check the types of vegetation found on the site:

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

None.

c. List threatened and endangered species known to be on or near the site.

None known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Not applicable.

e. List all noxious weeds and invasive species known to be on or near the site.

None.

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

b. List any threatened and endangered species known to be on or near the site.

None.

c. Is the site part of a migration route? If so, explain.

Yes, the proposed project area lies within the Pacific Flyway for waterfowl and the East Fork Wildcat Creek provides transportation and potential spawning habitat for Chinook, Coho, Chum, and Steelhead.

d. Proposed measures to preserve or enhance wildlife, if any:

None.

e. List any invasive animal species known to be on or near the site.

None.

6. Energy and Natural Resources [\[help\]](#)

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electricity is used to power the City's wastewater facilities.

b. Would your project affect the potential use of solar energy by adjacent properties?
If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal?
List other proposed measures to reduce or control energy impacts, if any:

None.

7. Environmental Health [\[help\]](#)

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal?
If so, describe.

No.

- 1) Describe any known or possible contamination at the site from present or past uses.

None.

- 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None.

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

None.

- 4) Describe special emergency services that might be required.

None.

- 5) Proposed measures to reduce or control environmental health hazards, if any:

None.

b. Noise [\[help\]](#)

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Traffic.

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Construction noise during regular work hours.

- 3) Proposed measures to reduce or control noise impacts, if any:

None.

8. Land and Shoreline Use [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The City's sewer facilities are either located underground in City rights of way or on City property. No changes to land use are envisioned with either project described in the Plan.

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

None of the project sites have been used as farm land.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

- c. Describe any structures on the site.

Existing sewer facilities include a below ground collection system and a wastewater treatment plant.

- d. Will any structures be demolished? If so, what?

Existing manholes may be removed and replaced as part of CIP 1.

- e. What is the current zoning classification of the site?

Varies.

- f. What is the current comprehensive plan designation of the site?

Varies.

- g. If applicable, what is the current shoreline master program designation of the site?

Not applicable.

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

Not applicable.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Not applicable.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Both of the proposed projects in the Plan do not alter existing land use.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

Not applicable.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

Not applicable.

10. Aesthetics [\[help\]](#)

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Proposed structures associated with CIP 1 are new manholes below grade.

b. What views in the immediate vicinity would be altered or obstructed?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. **Light and Glare**

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Not applicable.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

Not applicable.

c. What existing off-site sources of light or glare may affect your proposal?

Not applicable.

d. Proposed measures to reduce or control light and glare impacts, if any:

Not applicable.

12. **Recreation**

a. What designated and informal recreational opportunities are in the immediate vicinity?

Not applicable.

b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

Not applicable.

13. **Historic and cultural preservation**

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

None known.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None known.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

Not applicable.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

An Unanticipated Discovery Plan will be developed for any construction project. During construction, if any locations are found to contain objects of suspected historical interest, work will halt immediately and appropriate State or tribal authorities will be contacted in accordance with the Unanticipated Discovery Plan.

14. Transportation

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Temporary closures or partial closures of local roads may be necessary during the construction of CIP 1.

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

McCleary is served by buses run by Grays Harbor Transit.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

No permanent impacts to parking are anticipated.

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

A railroad line runs through the City of McCleary.

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

No trips will be generated by any of the completed projects.

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

Temporary traffic impacts are possible during the construction of CIP 1.

- h. Proposed measures to reduce or control transportation impacts, if any:

Traffic control plans must be prepared by construction contractors when road and/or lane closures occur. These will be reviewed and approved by the City.

15. Public Services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

- b. Proposed measures to reduce or control direct impacts on public services, if any.

Not applicable.

16. Utilities

- a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Not applicable.

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: _____

Name of signee Jon Martin

Position and Agency/Organization City Administrator

Date Submitted: 11-20-24

D. supplemental sheet for nonproject actions

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Both proposed projects will not increase discharges to air or water or involve the production, storage or release of toxic or hazardous substances. A temporary increase in noise may occur during construction activities.

Proposed measures to avoid or reduce such increases are:

Not applicable.

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

No effects on plants, animals, fish, or marine life are anticipated from either of the proposed projects.

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

Not applicable.

3. How would the proposal be likely to deplete energy or natural resources?

No depletion of energy or natural resources is anticipated. The installation of a nonpotable water system at the WWTP will help the City conserve it's water resources.

Proposed measures to protect or conserve energy and natural resources are:

Not applicable.

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

No impacts to sensitive areas are anticipated.

Proposed measures to protect such resources or to avoid or reduce impacts are:

Not applicable.

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

No permanent impacts to land or shoreline use are anticipated from either of the proposed projects. Temporary impacts are expected during construction.

Proposed measures to avoid or reduce shoreline and land use impacts are:

Temporary impacts will be mitigated during project construction through traffic control, erosion control, and debris/waste management.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

No permanent impacts on transportation or public services and utilities are anticipated from either of the proposed projects.

Proposed measures to reduce or respond to such demand(s) are:

Not applicable.

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

Nothing proposed in the General Sewer Plan will conflict with local, state or federal laws or requirements for the protection of the environment.

City of McCleary

STATE ENVIRONMENTAL POLICY ACT

Determination of NonSignificance

Date of issuance: *November 26, 2024*

Lead agency: *City of McCleary*

Agency Contact: *Jon Martin, City Administrator*
360-495-3667
jonm@cityofmccleary.com

Description of proposal – *The City of McCleary General Sewer Plan (November 2024) addresses the City’s planning needs for wastewater collection, transmission, treatment, and disposal for the 20-year planning period. This Plan was prepared in accordance with the provisions of the Revised Code of Washington (RCW) Section 90.48, Water Pollution Control, Washington Administrative Code (WAC) Section 173-240-050, General Sewer Plan, and WAC 173-240-060, Engineering Report. The Plan provides proposed conceptual designs, cost estimates, schedule, and financing plan for recommended major facility improvements. Projects in the Plan will require a separate SEPA process and, when executed, these projects are expected to require individual permits and separate approvals from the Department of Ecology, other State agencies, and affected Tribes.*

Location of proposal – *City of McCleary Sewer Service Area*

Name, phone, e-mail of applicant/proponent - *Jon Martin, City Administrator*
360-495-3667
jonm@cityofmccleary.com

The City of McCleary has determined that this proposal will not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030. We have reviewed the attached Environmental Checklist and General Sewer Plan. This information is available at: <https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-register>

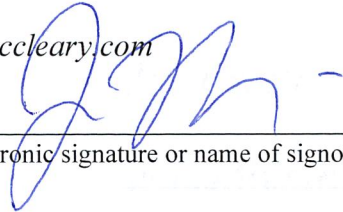
This determination is based on the following findings and conclusions:

This is a non-project SEPA document. Individual projects will require a separate SEPA process.

This DNS is issued under WAC 197-11-340(2) and the comment period will end on

December 11, 2024.

Jon Martin, City Administrator
360-495-3667
jonm@cityofmccleary.com

Signature  _____
(electronic signature or name of signor is sufficient)

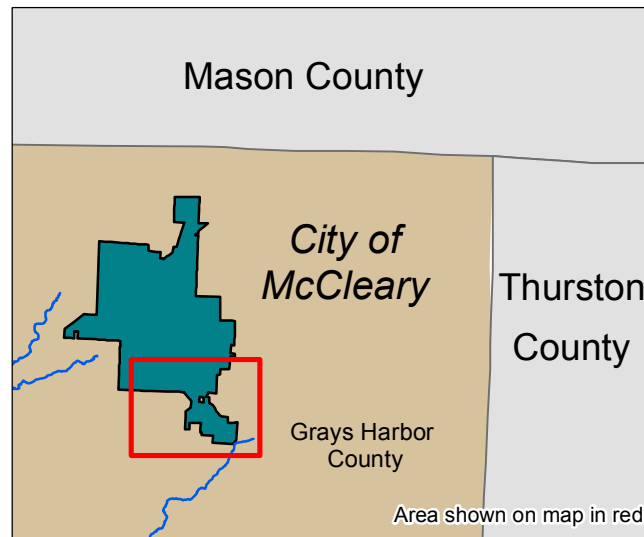
Date 11-20-24

Appeal process: *Appeal must be made to the city council within ten days of the permit or other approval is issued (McCleary Municipal Code 18.04.230 A.1.a.)*

APPENDIX F
OFFICIAL SHORELINES MAP

City of McCleary

Official Shorelines Map¹

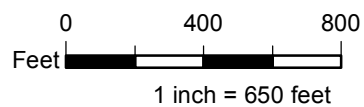


- Shoreline Jurisdiction
- Environment Designation²**
- Shoreline Residential
- Urban Conservancy
- Potentially Associated Wetland
- SMP Stream
- SMP Waterbody
- Other Stream
- Parcel boundary
- Road
- City Limit

Notes:

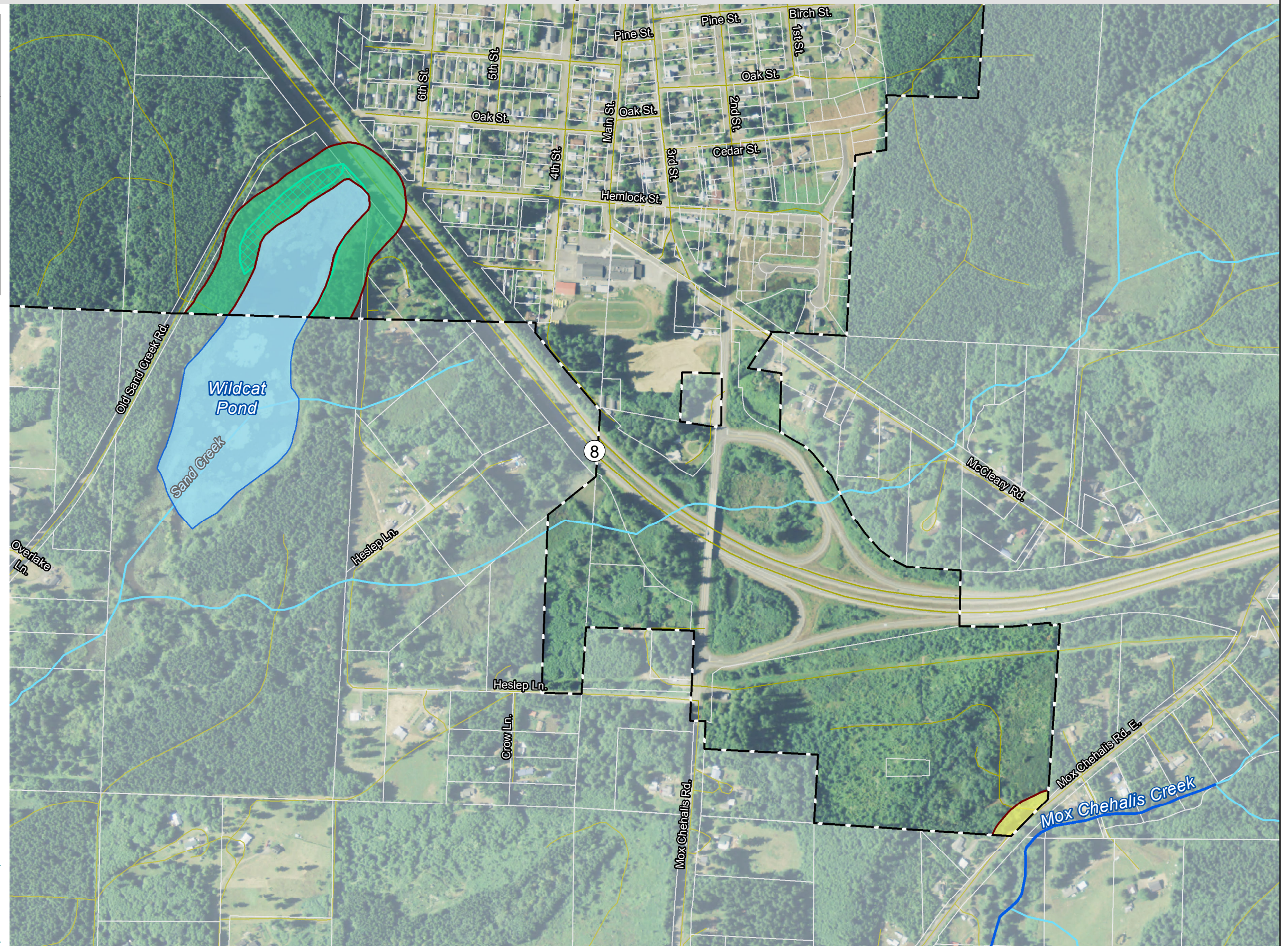
¹ Adopted July 13, 2016 (Resolution No. 690).

² All areas waterward of the ordinary high water mark are designated Aquatic.



All features depicted on this map are approximate. They have not been formally delineated or surveyed and are intended for planning purposes only. Additional site-specific evaluation may be needed to confirm information shown on this map.

Revision Date: 6/28/2016



APPENDIX G

WWTP DISCHARGE MONITORING REPORTS (DMRS)

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

 Month **November** Year **2012**

 Facility Name **McCleary Wastewater Treatment Plant**

 County **Grays Harbor**

 Receiving Water **East Fork Wildcat Creek**

 Plant Operator **Jon ehresmann**

 Plant Type **SBR and UV Disinfection**

 Population **1600**

Frequency	INFLUENT						EFFLUENT - OCTOBER THROUGH MAY												
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK				
Date	FLOW	BOD 5-DAY	BOD 5-DAY	TSS	TSS	FLOW	BOD 5-DAY	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	TSS	TSS	PERCENT REMOVAL	TSS	PH	STANDARD UNITS	DISSOLVED OXYGEN	FECAL COLIFORM	#/100 ML
1	0.486	30.72	126.3	97.15	399.4	0.493	1.41	95	5.8	8.71	91	35.8	6.61	10.21					
2	0.428					0.411								7.46	10.27				2
3	0.33					0.316									10.47				
4	0.318					0.299									10.53				
5	0.305					0.276								6.87	10.61				
6	0.317					0.292								6.96	10.57				
7	0.245	77.44	142.7	190	350.2	0.221	3.19	96	5.9	8.82	95	16.3	6.98	10.65				4	
8	0.222	80.01	132.8	47.06	78.1	0.199	1.27	98	2.1	6.63	86	11.0	7.04	10.71					
9	0.206					0.189								6.64	10.9				2
10	0.238					0.196													
11	0.195					0.161													
12	0.229					0.187								7.41	11.05				
13	0.311					0.288								7.04	10.91				
14	0.316	43.58	104.3	89	213	0.287	2.84	93	6.8	11.31	87	27.1	6.75	11.02				1	
15	0.301	60.13	140.9	198	464	0.281	0.65	99	1.5	1.66	99	3.9	7.05	11.07					
16	0.267					0.251								6.96	10.98				1
17	0.282					0.25													
18	0.271					0.243													
19	0.406					0.364								6.53	11.1				
20	0.801					0.948								6.53	11.2				
21	0.621	25.6	140.1	14.57	79.71	0.656	4.22	84	23.1	8.8	40	48.1	6.52	11.35					
22	0.592	27.22	132.3	19	92.38	0.583	1.85	93	9.0	2.89	85	14.1	6.58	11.2				30	
23	0.42					0.413								6.6	11.09				
24	0.577					0.552													
25	0.461					0.457													1
26	0.342					0.325								6.87	11.3				
27	0.284					0.29								6.65	11.2				
28	0.271					0.213								7.11	10.74				3
29	0.239	54.64	110.7	44.9	91	0.243	2.66	95	5.4	5.95	87	12.1	7.09	10.82					
30	0.231	57.89	100.9	60.02	104.6	0.209	0.9	98	1.6	3.53	94	6.2	6.92	10.7				1	
31																			
Total	10.51	457.2	1131	759.7	1872	10.09	18.99	851.6	61.148	58.3	763.9	174.4	151.2	260.7					
	AVG 0.35	AVG 51	AVG 126	AVG 84	AVG 208	AVG 0.34	AVG 2.1	AVG 94.6	AVG 6.8	AVG 6.5	AVG 84.9	AVG 19.4	MIN 6.52	MIN 10.2					
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0					91
	MAX 0.80	MAX 80	MAX 143	MAX 198	MAX 464	MAX 0.95	MAX 3.0	MAX 16.1	MAX 7.7	MAX 35.8	MAX 7.5	MAX 11.4	MAX 5						
Limits	1.1						23		107	23		107	8.5						182

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jon ehresmann plant operator
 Name and Title

Jon Ehresmann
 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month November Year 2012

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH MAY

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C														
1	0.57	2.34	15.66														
2			16														
3																	
4																	
5			15														
6			15.88														
7	0.4	0.74	15														
8	0.3	0.5	14														
9			14.22														
10																	
11																	
12			15.66														
13			14														
14	0.5	1.2	14														
15	0.27	0.63	13.66														
16			13.66														
17																	
18																	
19			12.88														
20			12														
21	0.99	5.41	12														
22	0.31	1.56	12														
23			12.66														
24																	
25																	
26			12.66														
27			13														
28			12.66														
29	0.29	0.59	13														
30	0.17	0.3	13.88														
31																	
Total	3.8	13.27	303.5														
	AVG 0.42	AVG 1.47	AVG 13.8														
Permit	1.0																
	MAX 0.99	MAX 5.41	MAX 16.0														
Limits	2.0																

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jon ehresmann plant operator
 Name and Title

Jon E. Ehresmann
 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month December Year 2012

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT									EFFLUENT - OCTOBER THROUGH MAY																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																	
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGE	MG/L	FECAL COLIFORM	#/100 ML		
1	0.347										0.299																					
2	0.493										0.464																			11.53		
3	0.509										0.481																6.6			11.53		
4	0.503										0.474																6.7			11.52		
5	0.499	21.7		87.51		10.1		40.93			0.484	3		86		12.1		2.66					74		10.7	6.7			11.7	1		
6	0.396										0.37																6.9			11.35	1	
7	0.356	52.1		145.5		28.6		79.79			0.335	1.74		97		4.9		4.82					83		13.5	7.0			11.46			
8	0.389										0.36																					
9	0.301										0.274																					
10	0.293										0.256																6.6			11.69		
11	0.28										0.254																7.0			11.2	1	
12	0.266	79		160.1		47.5		96.2			0.243	1.13		99		2.3		3.95					92		8.0	7.0			11.33			
13	0.254	84.9		157.9		74.9		139.4			0.223	0.77		99		1.4		2.11					97		3.9	7.0			11.83			
14	0.235										0.213																6.9			11.73	1	
15	0.264										0.235																					
16	0.236										0.207																					
17	0.305										0.258																6.9			11.42		
18	0.396										0.376																7.0			12.08		
19	0.353	62.4		156.1		60.2		150.6			0.3	2		97		5.0		2.74					95		6.9	6.9			11.98	6		
20	0.455	44.5		154.1		42.4		146.9			0.415	2.02		95		7.0		1.99					95		6.9	6.9			12.12			
21	0.528										0.532																6.7			12.28	1	
22	0.281										0.364																					
23	0.313										0.293																					
24	0.298										0.276																7.0			12.11		
25	0.271										0.26																6.8			12.18		
26	0.295										0.269																7.0			12.03		
27	0.327	83.1		211.4		39.8		101.2			0.305	2.97		96		7.6		2.6					93		6.6	6.9			12.3	1		
28	0.304	83.2		202		62.5		151.7			0.291	1.52		98		3.7		1.81					97		4.4	6.9			12	1		
29	0.27										0.252																					
30	0.25										0.224																					
31	0.236										0.208																7.0			12		
Total	10.5	511	1275	366	906.6	9.795	15.15	767.3	43.93	22.68	727.3	60.92	144	259.4																		
	AVG 0.339	AVG 63.9	AVG 159	AVG 45.8	AVG 113.3	AVG 0.316	AVG 1.9	AVG 95.9	AVG 5.5	AVG 2.84	AVG 90.9	AVG 7.6	AVG 6.6	AVG 11.2	GEM																	1
Permit	0.57		742		1252				15		85		71		15		85		71		6.5		8.0		91							
	MAX 0.528	MAX 84.9	MAX 211	MAX 74.9	MAX 151.7	MAX 0.532	MAX 2.4	MAX 8.5	MAX 3.61	MAX 12.1	MAX 7.0	MAX 12.3	GMT																			2
Limits	1.1								23		107		23		107		8.5															182

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann plant operator

Name and Title

Signature



WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040	Month December	Year 2012
Facility Name McCleary Wastewater Treatment Plant	County Grays Harbor	
Receiving Water East Fork Willcat Creek	Plant Operator	
Plant Type SBR and UV Disinfection	Population 1600	
EFFLUENT OCTOBER THROUGH MAY		

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE DEG C															
1																		
2																		
3			12.7															
4			12.7															
5	0.25	1	12.7															
6			12.9															
7	0.34	0.95	12.9															
8																		
9																		
10			12.9															
11			12.0															
12	0.24	0.49	12.7															
13	0.14	0.26	12.7															
14			12.0															
15																		
16																		
17			11.7															
18			11.0															
19	0.27	0.68	10.9															
20	0.37	1.3	10.9															
21			11.0															
22																		
23																		
24			13.9															
25			10.0															
26			11.0															
27	0.17	0.43	11.0															
28	0.12	0.29	11.0															
29																		
30																		
31			10.7															
Total	1.9	5.4	248.9															
AVG	0.24	0.68	11.9															
Permit	1.0																	
MAX	0.37	1.30	13.9															
Limits	2.0																	

OCTOBER THROUGH APRIL ONLY
 Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann plant operator

 Name and Title

Signature Jon E. Ehresmann

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month January year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Jon Ehresmann

Plant Type SBR and UV Disinfection

Population 1650

Frequency	INFLUENT									EFFLUENT - OCTOBER THROUGH MAY									
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK				
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN MG/L	FECAL COLIFORM #/100 ML				
1	0.234					0.219							7.11	11.27					
2	0.226	134.4	217.5	108.9	176.2	0.194	2.64	98	4.3	5.43	95	8.8	6.6	11.25					
3	0.218	120.2	200.5	85.2	142.1	0.2	1.86	98	3.1	1.82	98	3.0	6.79	11.35	1				
4	0.212					0.185							7.17	11.16	1				
5	0.203					0.189													
6	0.207					0.18													
7	0.207					0.176							7.18	10.95					
8	0.241					0.226							7.23	10.93					
9	0.289	43.48	90.7	30.67	63.95	0.25	2.88	93	6.0	2.3	93	4.8	6.66	10.93					
10	0.487	38.29	145.6	30.16	114.7	0.456	1.96	95	7.5	2.8	91	10.6	6.64	11	1				
11	0.355					0.336							6.62	11.53	1				
12	0.299					0.281													
13	0.255					0.188													
14	0.238					0.213							6.98	11.53					
15	0.224					0.234							7	11.4					
16	0.233					0.209							6.94	11.53					
17	0.206	81.95	119.6	60	87.57	0.175	3.3	96	4.8	1.86	97	2.7	6.88	11.71	3				
18	0.193	73.55	100.0	41.46	56.36	0.163	1.85	97	2.5	1.17	97	1.6	7.07	11.36					
19	0.235					0.202									7				
20	0.191					0.16													
21	0.193					0.16							7.4	11.53					
22	0.195					0.162							7.21	11.31					
23	0.178	99.19	134.8	60.36	82.05	0.163	3.6	96	4.9	1.64	97	2.2	7	11.69					
24	0.198	88.16	126.5	40.32	57.84	0.172	1.99	98	2.9	2.57	94	3.7	6.98	11.6	4				
25	0.222					0.192							7.03	11.07	7				
26	0.178					0.152													
27	0.197					0.168													
28	0.202					0.173							6.95	10.8					
29	0.204					0.19							7.17	11.62					
30	0.214	111.1	177.0	55.88	89.01	0.191	3.53	97	5.6	6.45	88	10.3	7	11.55					
31	0.233	84.33	150.5	46.3	82.63	0.214	1.56	98	2.8	2.11	95	3.8	6.93	11.31	2				
Total	7.167	874.7	1463	559.3	952.4	6.373	25.17	967.3	44.32	28.15	945	51.53	160.5	260.4					
AVG	0.23	87	146	56	95	0.21	2.5	96.7	4.4	2.8	94.5	5.2	6.6	10.8	1				
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91				
MAX	0.49	134	217	109	176	0.46	2.8		6.8	4.3		7.1	7.4	11.7	3				
Limits	1.1						23		107	23		107	8.5		182				

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JON EHRESMANN PLANT OPERATOR

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Month JANUARY 2013
 County Grays Harbor
 plant operator jon ehresmann
 Population 1650

Permit No. WA0024040
 Facility Name McCleary Wastewater Treatment Plant
 Receiving Water East Fork Wildcat Creek
 Plant Type SBR and UV Disinfection
 EFFLUENT OCTOBER THROUGH MAY

Date	2/WEEK		5/WEEK		TEMPERATURE DEG C
	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TOTAL AMMONIA LBS/DAY	TEMPERATURE DEG C	
1					11.0
2	0.13	0.21			12.0
3	0.09	0.15			11.9
4					12.0
5					
6					
7					12.7
8					13.7
9	0.09	0.19			12.0
10	0.08	0.3			12.0
11					12.0
12					
13					
14					11.0
15					11.0
16					11.0
17	0.12	0.18			10.8
18	0.08	0.11			10.8
19					
20					
21					12.0
22					11.0
23	0.10	0.13			11.7
24	0.08	0.11			11.7
25	0.15				11.7
26					
27					
28					11.7
29					12.7
30	0.12	0.19			12.0
31	0.15	0.27			12.0
Total	1.19	1.84			270.1
AVG	0.11	0.18			11.7
Permit	1.0				
MIN	0.15	0.30			13.7
Limits	2.0				

***OCTOBER THROUGH APRIL ONLY**
 Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM7=highest 7-day Geometric Mean

penalty of law,
 that this
 document and all
 attachments were

JON EHRESMANN PLANT OPERATOR
 Name and Title

Jon Ehresmann
 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month february year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator jon ehresmann

Plant Type SBR and UV Disinfection

Population 1650

Frequency	INFLUENT								EFFLUENT - OCTOBER THROUGH MAY							
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK	
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN MG/L	FECAL COLIFORM #/100 ML	
1	0.226					0.2							6.84	11.17		
2	0.259					0.235										
3	0.205					0.18										
4	0.212					0.188							6.89	11.07		
5	0.196					0.177							7.33	10.97	1	
6	0.207	108	169.3	87.5	137.2	0.188	4.01	96	6.3	4.5	95	7.1	7.04	10.97		
7	0.233	57.01	108.9	26.82	51.22	0.229	1.45	97	2.8	1.34	95	2.6	7.07	11.05	1	
8	0.209					0.189							7.10	11		
9	0.241					0.219										
10	0.195					0.172										
11	0.188					0.164							7.1	10.85		
12	0.178					0.157							7.1	10.5	1	
13	0.18	116.9	164.7	38.07	53.66	0.169	3.1	97	4.4	3.15	92	4.4	7.26	10.85		
14	0.182	91.47	125.1	37.32	51.04	0.164	1.6	98	2.2	2	95	2.7	7.09	10.97	1	
15	0.204					0.182							7.09	10.95		
16	0.195					0.172										
17	0.164					0.167										
18	0.164					0.144							7.18	11.01		
19	0.161					0.142							7.22	10.8		
20	0.161	173.8	224.7	60.96	77.79	0.153	8.96	95	11.4	1.62	97	2.1	7.2	10.8	1	
21	0.163	89.52	109.7	43.65	53.51	0.147	2.87	97	3.5	2.34	95	2.9	7.19	10.78		
22	0.2					0.182							7.35	10.79	1	
23	0.339					0.308										
24	0.323					0.314										
25	0.271					0.259							7.04	11.02		
26	0.294					0.289							7.05	10.6	1	
27	0.25	54.7	107.2	45.79	89.74	0.235	1.38	97	2.7	2.34	95	4.6	6.98	10.62		
28	0.245	54.19	101.7	30.62	57.46	0.225	0.39	99	0.7	1.51	95	2.8	6.87	10.52	1	
29																
30																
31																
Total	6.045	745.5	1108	370.7	571.6	5.55	23.76	777.7	34.001	18.8	758.2	29.15	142	217.3		
	AVG 0.22	AVG 93	AVG 139	AVG 46	AVG 71	AVG 0.20	AVG 3.0	AVG 97.2	AVG 4.3	AVG 2.4	AVG 94.8	AVG 3.6	MIN 6.84	MIN 10.5	GEM 1	
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91	
	MAX 0.34	MAX 174	MAX 222	MAX 88	MAX 137	MAX 0.31	AVW 5.9		AVW 7.4	AVW 2.9		AVW 4.8	MAX 7.4	MAX 11.2	GEM 1	
Limits	1.1						23		107	23		107	8.5		182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

JON EHRESMANN PLANT OPERATOR
Name and Title

Jon Ehresmann
Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

...onth february 2013

Facility Name **McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

plant operator **jon ehresmann**

Plant Type **SBR and UV Disinfection**

Population **1650**

EFFLUENT OCTOBER THROUGH MAY

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1			13.7															
2																		
3																		
4			12.9															
5			13.0															
6			12.9															
7	0.17	0.27	12.2															
8	0.12	0.22	12.7															
9																		
10																		
11			13.0															
12			12.7															
13	0.17	0.24	12.0															
14	0.03	0.04	14.7															
15			13.0															
16																		
17																		
18			11.7															
19			12.0															
20	0.12	0.15	12.0															
21	0.13	0.16	13.0															
22			12.0															
23																		
24																		
25			12.0															
26			12.0															
27	0.13	0.26	11.7															
28	0.12	0.23	12.0															
29																		
30																		
31																		
Total	0.99	1.57	250.9															
	<small>AVG</small>	<small>AVG</small>	<small>AVG</small>															
	0.12	0.20	12.5															
Permit	1.0																	
	<small>MAX</small>	<small>MAX</small>	<small>MAX</small>															
	0.17	0.27	14.7															
Limits	2.0																	

*OCTOBER THROUGH APRIL ONLY

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

penalty of law,
that this
document and all
attachments were

JON EHRESMANN PLANT OPERATOR
Name and Title

Jon Ehresmann
Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

month march 2013

Facility Name **McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

Plant Operator **jon ehresmann**

Plant Type **SBR and UV Disinfection**

Population **1600**

Frequency	INFLUENT								EFFLUENT - OCTOBER THROUGH MAY									
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK			
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGE MG/L	FECAL COLIFORM #/100 ML
1	0.333					0.319									6.7	10.62		
2	0.361					0.355												
3	0.282					0.273												
4	0.264					0.246									7.04	10.55		
5	0.232					0.216									7.06	10.59	1	
6	0.226	58.74	103.9	40.29	71.24	0.212	1.92	97	3.4	1.5	96	2.7	6.96	10.74			1	
7	0.227	67.43	126.5	38.71	72.65	0.225	1.09	98	2.0	2.31	94	4.3	6.8	10.8				
8	0.269					0.25									6.74	10.66		
9	0.271					0.268												
10	0.224					0.204												
11	0.223					0.205									6.86	10.8		
12	0.206					0.191									6.96	10.64	1	
13	0.278	41.48	85.8	45.13	93.34	0.248	1.76	96	3.6	1.56	97	3.2	6.75	10.86				
14	0.379	42.05	135	36.63	117.6	0.385	2.22	95	7.1	1.35	96	4.3	6.85	10.77				
15	0.323					0.316									6.91	10.66	3	
16	0.324					0.364												
17	0.306					0.297												
18	0.282					0.264									6.8	11.08		
19	0.262					0.242									6.93	11.2		
20	0.225	50.18	102.1	51.15	104.1	0.244	1.52	97	3.1	3.46	93	7.0	6.74	11.14			1	
21	0.379	44.73	135.4	72.5	219.5	0.363	1.71	96	5.2	1.36	98	4.1	6.82	11.22				
22	0.343					0.34												1
23	0.284					0.267									6.6	11.32		
24	0.25					0.242												
25	0.234					0.214									7.09	11.1		
26	0.236					0.219									7.22	11		
27	0.199	125.5	191.5	71.65	109.4	0.183	2.65	98	4.1	2.68	96	4.1	7.26	10.93			1	
28	0.193	57.99	91.89	42.69	67.65	0.19	2.9	95	4.6	1.8	96	2.9	7.1	10.96				
29	0.186					0.172									7.01	10.96	1	
30	0.186					0.172												
31	0.177					0.16												
Total	8.164	488.1	972.1	398.8	855.4	7.846	15.77	772	33.13	16.02	766	32.64	145.2	228.6				
	AVG 0.26	AVG 61	AVG 122	AVG 50	AVG 107	AVG 0.25	AVG 2.0	AVG 96.5	AVG 4.1	AVG 2.0	AVG 95.8	AVG 4.1	MIN 6.6	MIN 10.6	GEM 1			
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91			
	MAX 0.38	MAX 126	MAX 192	MAX 73	MAX 219	MAX 0.39	AVW 2.8		AVW 4.4	AVW 2.4		AVW 5.6	MAX 7.3	MAX 11.3	GMP 1			
Limits	1.1						23		107	23		107	8.5		182			

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann wwtpo
Name and Title

Jon Ehresmann
Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

month n March year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator \ jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH MAY

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1			12.7															
2																		
3																		
4			13.0															
5			11.9															
6	0.14	0.25	11.9															
7	0.18	0.34	12.0															
8			12.0															
9																		
10																		
11			12.0															
12			12.0															
13	0.18	0.37	11.7															
14	0.15	0.48	12.0															
15			12.7															
16																		
17																		
18			13.7															
19			13.0															
20	0.12	0.24	12.9															
21	0.19	0.58	12.9															
22																		
23			13.0															
24																		
25			14.2															
26			14.2															
27	0.27	0.41	14.0															
28	0.14	0.22	14.9															
29			14.7															
30																		
31																		
Total	1.37	2.89	271.1															
	AVG 0.17	AVG 0.36	AVG 12.9															
Permit	1.0																	
	MAX 0.27	MAX 0.58	MAX 14.9															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann wwtpo
Name and Title

Jon Ehresmann

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month April Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT									EFFLUENT - OCTOBER THROUGH MAY								
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK			
Date	FLOW	BOD 5-DAY	BOD 5-DAY	TSS	TSS	FLOW	BOD 5-DAY	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	TSS	PERCENT REMOVAL	TSS	PH	STANDARD UNITS	DISSOLVED OXYGEN	FECAL COLIFORM	#/100 ML
1	0.178					0.164								6.99	10.72			
2	0.166					0.154								7.18	10.81		1	
3	0.169	83.1	107.4	56.77	73.39	0.155	3.6	96	4.7	5.23	91	6.8	7.3	11.62				
4	0.179	115.7	173.6	128.5	192.9	0.18	2.32	98	3.5	2.96	98	4.4	7	12.1				
5	0.212					0.202								7.04	12.17		1	
6	0.259					0.243								7.2	10.53			
7	0.148					0.134												
8	0.443					0.435								6.53	10.84			
9	0.321					0.318								6.81	11.2		1	
10	0.263	51.5	111.7	59.07	128.1	0.26	3.32	94	7.2	2.36	96	5.1	6.7	11.17				
11	0.278	56.87	125.7	95.59	211.3	0.265	1.82	97	4.0	0.88	99	1.9	6.7	10.92		1		
12	0.244					0.243								6.91	10.56			
13	0.253					0.239								6.9	9.7			
14	0.268					0.253									9.84			
15	0.279					0.266								6.65	10.54			
16	0.247					0.247								6.8	10.92			
17	0.224	58.71	104.8	108.5	193.7	0.214	2.49	96	4.4	2.58	98	4.6	6.75	10.85		1		
18	0.218	76.28	132.3	106.1	184.1	0.208	1.58	98	2.7	1.93	98	3.3	7.13	10.92				
19	0.198					0.188								7.05	10.9		1	
20	0.195					0.185								7	9.28			
21	0.219					0.213												
22	0.22					0.21								6.79	10.88			
23	0.196					0.185								7.05	10.81		1	
24	0.186	116.8	181.2	166.8	258.7	0.186	2.51	98	3.9	2.12	99	3.3	7.08	10.67				
25	0.178					0.17								7.24	10.63		1	
26	0.171	87.39	121.7	162.6	226.5	0.167	1.4	98	1.9	1.31	99	1.8	6.81	10.53				
27	0.216					0.21								6.94	9.8			
28	0.163					0.159												
29	0.171					0.16								7.35	10.65		1	
30	0.163					0.167								7.22	10.5			
31																		
Total	6.625	646.4	1058	884	1469	6.38	19.04	774.3	32.386	19.37	777.3	31.33	181.1	290.1				
	AVG 0.22	AVG 81	AVG 132	AVG 111	AVG 184	AVG 0.21	AVG 2.4	AVG 96.8	AVG 4.0	AVG 2.4	AVG 97.2	AVG 3.9	MIN 6.53	MIN 9.3	GEM 1			
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91			
	MAX 0.44	MAX 117	MAX 181	MAX 167	MAX 259	MAX 0.44	MAX 3.0	MAX 5.6	MAX 4.1	MAX 5.6	MAX 7.4	MAX 12.2	GM7 1					
Limits	1.1						23		107	23		107	8.5		182			

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann plant operator
Name and Title

Jon Ehresmann
Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month April year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH MAY

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1			15															
2			14.88															
3	0.08	0.1	15.66															
4	0.21	0.32	14.88															
5			14.22															
6																		
7																		
8			13															
9			14															
10	0.13	0.28	13.66															
11	0.16	0.35	14															
12			14															
13																		
14																		
15			14															
16			14.66															
17	0.2	0.36	14															
18	0.14	0.24	14.88															
19			14.88															
20																		
21																		
22			14															
23			15.66															
24	0.18	0.28	14															
25			15.88															
26	0.24	0.33	16															
27																		
28																		
29			14.88															
30			15.22															
31																		
Total	1.34	2.26	321.4															
	<small>AVG</small> 0.17	<small>AVG</small> 0.28	<small>AVG</small> 14.6															
Permit	1.0																	
	<small>MRD</small> 0.24	<small>MRD</small> 0.36	<small>MAX</small> 16.0															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann plant operator

 Name and Title

Jon Ehresmann

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

 Month **May** year **2013**

 Facility Name **McCleary Wastewater Treatment Plant**

 County **Grays Harbor**

 Receiving Water **East Fork Wildcat Creek**

 Plant Operator **jon ehresmann**

 Plant Type **SBR and UV Disinfection**

 Population **1600**

Frequency	INFLUENT								EFFLUENT - OCTOBER THROUGH MAY																								
	CONT		2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT		2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGE	MG/L	FECAL COLIFORM	#/100 ML			
1	0.146									0.139																6.89	10.63						
2	0.137		110.1	124.9	156.73	177.8	0.136	1.54	99	1.7	1.17	99	1.3	7.13	10.29															1			
3	0.129		155.3	160.6	49.65	51.35	0.124	1.56	99	1.6	1.11	98	1.1																				
4	0.175									0.17																							
5	0.118									0.112																							
6	0.123									0.117																	7.1	10.4					
7	0.137									0.137																	7.05	9.84					
8	0.138		128.3	148.7	107.00	124	0.139	2.93	98	3.4	2.51	98	2.9	7.19	10.02															1			
9	0.13		85.77	92.99	150.34	163	0.13	1.67	98	1.8	3.84	97	4.2	7.35	9.95																		
10	0.162									0.16																	7.17	9.84			1		
11	0.177									0.173																							
12	0.139									0.137																							
13	0.138									0.137																	7.32	9.8					
14	0.138									0.139																	7.34	9.82			1		
15	0.128		97.31	102.3	143.38	150.7	0.126	4.59	95	4.8	1.28	99	1.3	7.27	10.02																		
16	0.134		132.1	146.5	120.67	133.8	0.133	1.18	99	1.3	1.5	99	1.7	7.15	9.67																		
17	0.134									0.134																		7.18			1		
18	0.179									0.176																							
19	0.136									0.131																							
20	0.137									0.13																	7.25	9.55					
21	0.14									0.132																	7.5	9.71					
22	0.151									0.148																	7.42	9.65					
23	0.147		95.59	113.2	137.32	162.6	0.142	4.39	95	5.2	0.1	100	0.1	7.22	9.55															1			
24	0.169		78.49	107.4	260.68	356.5	0.164	1.88	98	2.6	1.84	99	2.5	7.2	10.66															1			
25	0.21									0.207																							
26	0.147									0.141																							
27	0.151									0.147																	7.39	10.56					
28	0.179									0.174																	7.04	10.56					
29	0.166		116.3	156.1	243.21	326.6	0.161	1.82	98	2.4	1.48	99	2.0	7.06	10.53																		
30	0.177		109.5	157	100.00	143.4	0.172	1.73	98	2.5	0.1	100	0.1	7.3	10.72															1			
31	0.171									0.165																		7.09	10.4			1	
Total	4.643		1109	1310	1469	1790	4.533	23.29	977.6	27.395				988.5	17.32	158.6	212.2																
	AVG	0.15	AVG	111	AVG	131	AVG	147	AVG	179	AVG	0.15	AVG	2.3	AVG	97.6	AVG	2.7	AVG	1.5	AVG	98.8	AVG	1.7	MIN	6.89	MIN	9.6	GEM	1			
Permit	0.57			742		1252			15	85	71	15	85	71	6.5	8.0	91																
	MAX	0.21	MAX	155	MAX	161	MAX	261	MAX	357	MAX	0.21	AVW	3.1	AVW	3.9	AVW	3.2							AVW	3.6	MAX	7.5	MAX	10.7	GM7	1	
Limits	1.1																																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann wwtp operator

Name and Title


 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month May year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH MAY

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1			15.7															
2	0.15	0.17	16.9															
3	0.17	0.18																
4																		
5																		
6			17.7															
7			17.0															
8	0.17	0.2	16.9															
9	0.21	0.23	17.7															
10			18.0															
11																		
12																		
13			17.7															
14			18.7															
15	0.24	0.25	17.0															
16	0.2	0.22	18.2															
17			17.0															
18																		
19																		
20			18.0															
21			17.0															
22			17.0															
23	0.14	0.17	16.7															
24	0.16	0.22	16.7															
25																		
26																		
27			15.9															
28			17.7															
29	0.25	0.33	16.9															
30	0.2	0.29	17.0															
31			16.7															
Total	1.89	2.26	377.7															
	AVG 0.19	AVG 0.23	AVG 17.2															
Permit	1.0																	
	MAX 0.25	MAX 0.33	MAX 18.7															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jon ehresmann wwtp operator

Name and Title


Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month June Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.202										0.2																				
2	0.152										0.14																				
3	0.158										0.15															7.3	10.3				
4	0.147										0.14															7.33	9.56				1
5	0.139	97.14	104.5		71.29	76.7					0.13	3	97	3.2				2.89				96	3.1		6.93	9.4					
6	0.167	75.47	99.45								0.16	2.39	97	3.1											7.38	9.48				1	
7	0.132										0.12															7.44	10				
8	0.18				92	135.8					0.18							1.46				98	2.2								
9	0.132										0.12																				
10	0.136										0.13															7.42	9.46				
11	0.131										0.12															7.17	9.2				
12	0.129	119.6	121.7		124.5	126.7					0.12	1.29	99	1.3				2				98	2.0		7.13	9.08				1	
13	0.145	206.4	235.8		228.8	261.4					0.14	3.55	98	4.1				1.2				99	1.4		7.22	9.58				1	
14	0.149										0.14															7.23	9.49				
15	0.187										0.18																				
16	0.132										0.12																				
17	0.136										0.13															7.16	9.58				
18	0.131										0.12															7.36	9.37				1
19	0.133	155.4	163.3		247.8	260.4					0.13	3.68	98	3.9				3.815				98	4.0		7.55	9.4					
20	0.133	173.2	177.7		247.1	253.5					0.12	1.96	99	2.0				1.46				99	1.5		7.1	9.45				1	
21	0.131										0.14															7.17	9.75				
22	0.144										0.13																				
23	0.113										0.1																				
24	0.123										0.11															7.27	9.39				
25	0.13										0.13															6.98	9.6				1
26	0.138	118.4	124.4		52.63	55.3					0.13	4.93	96	5.2				1.95				96	2.0		7.39	9.4					
27	0.136	121.1	131.3		204	221.2					0.13	1.88	98	2.0				2.2				99	2.4		6.75	9.3				1	
28	0.139										0.14															7.15	9.94				
29	0.171										0.15																				
30	0.117										0.1																				
31																															
	AVG	0.14	133	145	159	174					0.13	3	98	3.1				2.1			98	2.3			MIN	6.75	MIN	9.08	MIN	1.00	
Permit		0.57		742		1252						15	85	31				15			85	71		6.5	8.7				91		
	MAX	0.2	206	236	248	261					0.20														MAX	7.6	MAX	10.3	MAX	1.0	
Limits		1.1										23						47			23				107		8.5			182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month

Year

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator

Plant Type SBR and UV Disinfection

Population

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3															
4															
5	0.25	0.27													
6	0.2	0.26													
7	0.2	0.21													
8															
9															
10															
11															
12	0.18	0.18													
13	0.17	0.206													
14															
15															
16															
17															
18															
19	0.26	0.29													
20	0.23	0.24													
21															
22															
23															
24															
25															
26	0.19	0.2													
27	0.21	0.23													
28															
29															
30															
31															
	AVG	0.2	AVG	0.2											
Permit	1.0	4.32													
	AVG	0.3	AVG	0.3											
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin T
Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																					
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.111										0.093															7.4		10.3		
2	0.11										0.094															7.42		9.57		
3	0.114	151.8	124.1		205.6	168.1					0.098	3.56	98	2.9	5.75	97	4.7	7.17	10.1						7.41		9.94	1		
4	0.116										0.104															7.44		9.55		
5	0.109	213.4	185.1		698.3	605.7					0.104	2.74	98	2.4	5.25	99	4.6	7.44	9.55											
6	0.124										0.111																		1	
7	0.101										0.086																			
8	0.12										0.109															7.46		9.8		
9	0.116										0.116															7.4		9.6		
10	0.107	152	116.6		49.11	37.7					0.092	4.43	97	3.4	4.35	91	3.3	7.4	9.6						7.4		9.6			
11	0.103	227.2	185.7		104.2	85.1					0.098	2.99	99	2.4	4.01	96	3.3	7.42	9.58						7.42		9.58			
12	0.149										0.134															7.37		9.57	1	
13	0.145										0.132																		1	
14	0.106										0.09																			
15	0.112										0.097															7.3		9.21		
16	0.109										0.096															7.18		9.38		
17	0.104										0.097															7.17		9.83		
18	0.107	197.5	159.8		163.9	132.6					0.097	1.87	99	1.8	2.48	98	2.0	7.16	9.41	1					7.16		9.41	1		
19	0.14	41.6	43.71		17.15	18.0					0.126	1.76	96	1.4	1.5	91	1.6	7.21	9.4						7.21		9.4			
20	0.132										0.12																		1	
21	0.103										0.092																			
22	0.113										0.102															7.43		9.12		
23	0.108										0.096															7.49		9.6		
24	0.105	188.4	153.9		67.67	55.3					0.098	1.7	99	1.4	0.65	99	0.5	7.3	9.53						7.3		9.53			
25	0.104	210.0	164.6		87.62	68.7					0.094	1.9	99	1.5	2.34	97	1.8	7.49	10.5	1					7.49		10.5	1		
26	0.13										0.119															7.62		9.7		
27	0.169										0.16																		1	
28	0.102										0.094																			
29	0.108										0.098															7.13		10.4		
30	0.125										0.115															7.43		9.54		
31	0.112	152.0	125.5		242.7	200.4					0.099	3.48	98	2.9	1.29	99	1.1	7.21	9.52						7.21		9.52			
	AVG	0.12	170	140	182	152					AVG	0.11	3	98	2.2	3.1	97	2.5							MIN	7.13	9.12	9.6	1.00	
Permit	0.57		742			1252						15	85	31	15	85	71	6.5	8.7	91										
	MAX	0.17	227	186	698	606					MAX	0.2	3.71	99	2.9	5.6		MAX	4.7	MAX	7.6	MAX	10.5	ZRC						
Limits	1.1											23		47	23			107	8.5										182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GIM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

Note:

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3	0.06	0.057													
4															
5	0.22	0.22													
6															
7															
8															
9															
10	0.57	0.44													
11	0.28	0.23													
12															
13															
14															
15															
16															
17															
18	0.29	0.23													
19	0.21	0.22													
20															
21															
22															
23															
24	0.19	0.16													
25	0.26	0.2													
26															
27															
28															
29															
30															
31	0.16	0.13													
	0.2	0.2													
Permit	1.0	4.32													
	0.6	0.4													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. **WA0024040** Month **August** Year **2013**
 Facility Name **McCleary Wastewater Treatment Plant** County **Grays Harbor**
 Receiving Water **East Fork Wildcat Creek** Plant Operator: **Kevin Trehwella**
 Plant Type **SBR and UV Disinfection** Population **1600**

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER								
	CONT	2WEEK	2WEEK	2WEEK	2WEEK	CONT	2WEEK	2WEEK	2WEEK	2WEEK	2WEEK	5WEEK	5WEEK	2WEEK			
Date	FLOW	BOD 5-DAY	BOD 5-DAY	TSS	TSS	FLOW	BOD 5-DAY	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	TSS	PERCENT REMOVAL	TSS	PH	STANDARD UNITS	DISSOLVED OXYGEN	FECAL COLIFORM
	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MGD	MG/L	MG/L	LBS/DAY	MG/L	MG/L	LBS/DAY	LBS/DAY		MG/L	MG/L	#/100 ML
1	0.117	157.5	139.2	325.9	288.1	0.106	1.9	99	1.7	1.43	100	1.3	7.19	9.56			
2	0.11					0.102							7.65	9.63			
3	0.153					0.145											
4	0.111					0.1											1
5	0.116					0.107							7.32	9.79			
6	0.111					0.099							7.39	9.66			1
7	0.148	104.6	122.2	63.13	73.7	0.14	3.31	97	3.9	1.46	98	1.7	7.20	9.36			
8	0.111	98.38	82.87	79.26	66.8	0.101	1.53	98	1.3	1.36	98	1.1	7.35	9.36			
9	0.106					0.096											
10	0.101					0.096							7.30	9.4			
11	0.102					0.093											
12	0.116					0.104							7.35	9.31			1
13	0.113					0.104							7.59	9.3			1
14	0.113	161.5	126.6	165.4	129.7	0.094	2.6	98	2.0	2.32	99	1.8	7.34	9.34			
15	0.113	98.93	78.38	79.17	62.7	0.095	1.68	98	1.3	1.65	98	1.3	7.35	9.27			
16	0.109					0.102							7.36	9.44			
17	0.141					0.126											
18	0.105					0.1											1
19	0.111					0.096							7.27	9.6			
20	0.107					0.097							6.99	9.41			1
21	0.108	152.4	120.7	76.7	60.8	0.095	2.89	98	2.3	1.67	98	1.3	7.36	9.2			
22	0.105	139.6	110.6	90.09	71.4	0.095	1.74	99	1.4	1.66	98	1.3	6.86	9.28			
23	0.111					0.096							7.48	9.38			
24	0.106					0.095											
25	0.105					0.089											1
26	0.112					0.102							7.37	9.27			
27	0.109					0.106							7.06	9.05			1
28	0.113	91.7	103.2	70.61	79.5	0.135	2.69	97	3.0	2.96	96	3.3	7.38	9.17			
29	0.119	92.69	86.58	61.2	57.2	0.112	1.66	98	1.6	1.2	98	1.1	7.34	9.27			
30	0.139					0.136							7.11	9.5			
31	0.13					0.14											
	AVG	0.12	122	108	112	99	0.11	2.22	98	2.1	1.7	98	1.6	7.19	6.86	9.05	142
Permit	0.57		742		1252			15	85	31	15	85	71	6.5	8.7	91	
	MAX	0.15	162	139	326	288	0.15	2.42		2.6	2.08		2.2	7.7	9.8		2
Limits	1.1							23		47	23		107	8.5			182

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AWW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI=ignest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager
 Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040	Month August	Year 2013
Facility Name McCleary Wastewater Treatment Plant	County Grays Harbor	
Receiving Water East Fork Wildcat Creek	Plant Operator: Kevin Trehwella	
Plant Type SBR and UV Disinfection	Population 1600	

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2WEEK	2WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1	0.13	0.12													
2															
3															
4															
5															
6															
7	0.16	0.18													
8	0.07	0.06													
9															
10															
11															
12															
13															
14	0.19	0.15													
15	0.12	0.09													
16															
17															
18															
19															
20															
21	0.15	0.12													
22	0.17	0.13													
23															
24															
25															
26															
27															
28	0.2	0.23													
29	0.18	0.17													
30															
31															
	^{AVG} 0.15	^{AVG} 0.14													
Permit	1.0	4.32													
	^{GM7} 0.20	^{GM7} 0.23													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average AWW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella **WWTP Plant Manager**

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month September Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																					
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK															
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.118										0.114																			
2	0.111										0.107															7.43	9.27			
3	0.128										0.121															7.23	9.27			
4	0.117	105.9	110.4	88.13	91.9						0.125	3.09	97	3.2	1.98	98	2.1								7.23	9.32	1			
5	0.111	107.9	97.17	124.7	112.3						0.108	1.92	98	1.7	2.46	98	2.2								7.24	9.34				
6	0.119										0.116															7.1	9.34	1		
7	0.135										0.145																			
8	0.125										0.12																			
9	0.129										0.123															7.46	9.32			
10	0.121										0.127															7.27	9.27	1		
11	0.116	134.6	126.8	43.37	40.9						0.113	2.69	98	2.5	2.11	95	2.0								7.28	9.18				
12	0.108	212.0	187.5	209	184.8						0.106	4.53	98	4.0	2.82	99	2.5								7.65	9.81	1			
13	0.105										0.107															7.63	9.95			
14	0.107										0.113																			
15	0.113										0.109																			
16	0.129										0.125															7.2	9.19	1		
17	0.125	191.0	207.1	251	272.1						0.13	1.27	99	1.4	3.94	98	4.3								7.09	9.25				
18	0.111										0.107															7.19	9.51			
19	0.115	294.4	272.5	243.5	225.5						0.111	7.85	97	7.3	1.68	99	1.6								7.4	9.12				
20	0.154										0.152															7	9.2	2		
21	0.138										0.134																			
22	0.123										0.117																			
23	0.156										0.146															7.18	9.25			
24	0.19										0.186															7.43	9.46			
25	0.156	214.8	266.9	228	283.3						0.149	4.4	98	5.5	13.5	94	16.8								7.3	9.58	1			
26	0.138	95.8	103.1	110	118.3						0.129	1.32	99	1.4	9	92	9.7								7.4	9.54	4			
27	0.132										0.126															7.2	9.8			
28	0.145										0.137																			
29	0.293										0.268																			
30	0.339										0.332															6.8	9.3			
31																														
	AVG	0.140	170	171	162	166					AVG	0.137	3.38	98	3.4	4.7	97	5.1							MIN	6.80	9.12	PERM	1	
Permit		0.57		742		1252							15	85	31	15	85	71								6.5	8.7	91		
	MAX	0.339	294	273	251	283					MAX	0.332	4.56		4.35	11		13							MAX	7.7	10.0	PERM	2	
Limits		1.1											23		47	23										8.5			182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month _____ Year 2013

Facility Name **McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

Plant Operator: **Kevin Trewhella**

Plant Type **SBR and UV Disinfection**

Population **1600**

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK												
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY												
1														
2														
3														
4	0.21	0.22												
5	0.19	0.17												
6														
7														
8														
9														
10														
11	0.23	0.22												
12	0.22	0.19												
13														
14														
15														
16														
17	0.22	0.24												
18														
19	0.2	0.19												
20														
21														
22														
23														
24														
25	0.2	0.26												
26	0.21	0.24												
27														
28														
29														
30														
31														
	AVG	AVG												
Permit	1.0	4.32												
	AVG	AVG												
Limits	2.0													

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month **October** Year **2013**

Facility **Nar McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

Plant Operator **Kevin Trehwella**

Plant Typ **SBR and UV Disinfection**

Population **###**

Date	INFLUENT									EFFLUENT - OCTOBER THROUGH APRIL																							
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK																	
	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML			
1	0.383										0.397															7	9.3						
2	0.3	21.19	54.4	123.96	318.4		0.308	1.07	95	2.7	2.7	98	6.9	7.2	8.73																		
3	0.302	64.8	156.7	103.3	249.8		0.29	1.13	98	2.7	2.1	98	5.1	7.01	9.69	1																	
4	0.214						0.234							6.72	9.63	1																	
5	0.253						0.243																										
6	0.179						0.17																										
7	0.171						0.16							6.99	9.51																		
8	0.163						0.156							7.42	9.65	1																	
9	0.147	127.79	148.1	151.16	175.2		0.139	1.25	99	1.4	2.08	99	2.4	7.15	9.55																		
10	0.139	168.88	178.9	110.71	117.3		0.127	2.14	99	2.3	1.21	99	1.3	7.2	9.69	1																	
11	0.138						0.132							7.05	9.75																		
12	0.172						0.161																										
13	0.13						0.119																										
14	0.138						0.125							7.47	10.01																		
15	0.126						0.118							7.44	9.72																		
16	0.119	229.25	212.2	268.88	248.9		0.111	1.71	99	1.6	2.69	99	2.5	7.23	9.57	1																	
17	0.121	164	153.2	190.87	178.3		0.112	1.61	99	1.5	0.82	100	0.8	7.4	9.52																		
18	0.12						0.12							7.01	10.03	1																	
19	0.163						0.156																										
20	0.117						0.11																										
21	0.124						0.118							7.45	9.74																		
22	0.118						0.113							7.15	9.72	1																	
23	0.118	165.87	153.6	85.3	79.0		0.111	2.39	99	2.2	1.32	98	1.2	6.93	9.7																		
24	0.112	148.42	131.2	209.25	185.0		0.106	2	99	1.8	2.46	99	2.2	7.62	9.79	1																	
25	0.115						0.11							7.04	9.6																		
26	0.112						0.118																										
27	0.119						0.114																										
28	0.121						0.116							7.28	9.73																		
29	0.115						0.119							7.14	9.75	1																	
30	0.108	204.2	172.0	1232	1037.8		0.101	1.52	99	1.3	2	100	1.7	7.42	10.01																		
31	0.112	152.8	133.8	222	194.4		0.105	1.32	99	1.2	1	100	0.9	7.32	10.18	1																	
	AVG	0.157	AVG	145	AVG	149	AVG	270	AVG	278	AVG	0.152	AVG	1.61	AVG	98	AVG	1.9	AVG	1.8	AVG	99	AVG	2.5	MIN	6.72	MIN	8.73	MIN	1			
Permit	0.57		742		1252			15	85	71	15	85	71	6.5	8.0	91																	
	AVG	0.38	AVG	229	AVG	212	AVG	1232	AVG	1038	AVG	0.397	AVG	2.20	AVG	2.7	AVG	2.4	AVG	2.4	AVG	6	AVG	6	AVG	7.6	AVG	10.2	AVG	1			
Limits	1.1										23					107									107	8.5				182			

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GIM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

 Month October Year 2013

 Facility Name McCleary Wastewater Treatment Plant

 County Grays Harbor

 Receiving Water East Fork Wildcat Creek

 Plant Operator Kevin Trewhella

 Plant Type SBR and UV Disinfection

 Population 1600
EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA	TOTAL AMMONIA	TEMPERATURE*														
	MG/L	LBS/DAY	DEG C														
1			18.2														
2	0.33	0.83	17.7														
3	0.35	0.85	17.7														
4			17														
5																	
6																	
7			17.7														
8			17														
9	0.22	0.26	17.7														
10	0.17	0.18	17.8														
11			17.8														
12																	
13																	
14			16.9														
15			17														
16	0.19	0.18	16.9														
17	0.19	0.18	17														
18			16.9														
19																	
20																	
21			16.9														
22			17														
23	0.2	0.19	16.9														
24	0.17	0.15	16.7														
25			16.7														
26																	
27																	
28			17														
29			16.6														
30	0.13	0.11	15.4														
31	0.19	0.17	15.8														
	^{AVI} 0.21	^{AVC} 0.3	^{AVG} 17														
Permit	1.0																
	^{MXI} 0.35	^{MXL} 0.9	^{MAX} 18														
Limits	2.0																

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month November year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator jon ehresmann

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - OCTOBER THROUGH MAY																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML		
1	0.112										0.111														7.2	9.73					
2	0.159										0.156																				
3	0.125										0.12																				
4	0.132										0.119															7.4	10.25				
5	0.12										0.11															7.1	9.88	1			
6	0.137	150	161.4	196	210.9	0.129	2.37	98	2.5	2.55	99	2.8	7.1	10.25																	
7	0.138	67.5	71.49	94.3	99.92	0.127	1.99	97	2.1	1.26	99	1.3	7.2	10																	
8	0.234										0.235															7.0	9.97	2			
9	0.257										0.256																				
10	0.17										0.164																				
11	0.161										0.15															7.1	9.97				
12	0.146										0.138															7.1	9.92				
13	0.146	115.3	133.6	158	182.6	0.139	1.3	99	1.5	1.26	99	1.5	7.2	10	1																
14	0.152	119.9	146	189	229.6	0.146	1.33	99	1.6	2.97	98	3.6	7.0	9.85																	
15	0.135										0.136															6.9	9.7	1			
16	0.186										0.177																				
17	0.16										0.153																				
18	0.19										0.178															6.9	9.84				
19	0.266										0.246															7.0	10.09				
20	0.274	49.29	113.5	54.8	126.2	0.276	2.08	96	4.8	2.9	95	6.7	7.0	10.54	2																
21	0.207	66.08	114.1	104	180	0.207	1.82	97	3.1	1.45	99	2.5	6.7	10.25																	
22	0.221										0.21															7.0	10.25	1			
23	0.155										0.146																				
24	0.152										0.138																				
25	0.149										0.135															7.0	10.57				
26	0.175										0.162																			1	
27	0.136	96.71	99.21	58.2	59.74	0.123	3.23	97	3.3	4.58	92	4.7	6.9	10.11																	
28	0.128	132.9	129.7	141	137.2	0.117	1.87	99	1.8	2.55	98	2.5	7.2	10.22	1																
29	0.135										0.124															7.1	10.21				
30	0.121										0.111															7.1	10.24				
31																															
Total	4.979	797.6	968.9	994	1226	4.739	15.99	782.3	20.85	19.52	779	25.53	148	211.8																	
	AVG 0.166	AVG 99.7	AVG 121	AVG 124.3	AVG 153.3	AVG 0.158	AVG 2.0	AVG 97.8	AVG 2.6	AVG 2.44	AVG 97.4	AVG 3.2	MIN 6.7	MIN 9.7	GEM 1																
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91																
	MAX 0.274	MAX 150.0	MAX 161	MAX 196.0	MAX 229.6	MAX 0.276	MAX 2.6	MAX 3.95	MAX 3.57	MAX 4.6	MAX 7.4	MAX 10.6	GM7 1																		
Limits	1.1						23		107	23		107	8.5		182																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

jon ehresmann plant operator

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month November Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C														
1			16														
2																	
3																	
4			15.7														
5			16														
6	0.23	0.25	16.2														
7	0.23	0.24	16														
8			16.1														
9																	
10																	
11			15														
12			16.5														
13	0.24	0.28	15.7														
14	0.17	0.21	16														
15			15.2														
16																	
17																	
18			15.6														
19			15														
20	0.16	0.37	14														
21	0.12	0.21	14														
22			13.7														
23																	
24																	
25			15														
26																	
27	0.24	0.25	14.7														
28	0.2	0.2	14.6														
29			13														
30			12.7														
31																	
	AVG 0.20	AVG 0.25	AVG 15														
Permit	1.0																
	MAX 0.24	MAX 0.37	MAX 17														
Limits	2.0																

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month December Year 2013

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT									EFFLUENT - OCTOBER THROUGH APRIL																				
	CONT	2WEEK	2WEEK	2WEEK	2WEEK	CONT	2WEEK		2WEEK	2WEEK		2WEEK	5WEEK	5WEEK	2WEEK															
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.124										0.114																			
2	0.224										0.206															7.06	10.81			
3	0.221										0.213															7.02	10.49			1
4	0.191	90.28	137.8	70.83	108.1						0.183	2.39	97	3.6	4.21	94	6.4								7.21	10.1				
5	0.159	136.96	166.8	254.25	309.6						0.146	2.22	98	2.7	5.63	98	6.9								6.83	10.42			1	
6	0.186										0.173															7.11	10.64			
7	0.141										0.132																			
8	0.134										0.121																			
9	0.135										0.137															7.16	11.02			1
10	0.142										0.131															7.1	11			
11	0.133	114.93	107.4	77.15	72.1						0.112	2.83	98	2.6	4.39	94	4.1								7.23	11.01				
12	0.137	127.38	132.8	84.67	88.3						0.125	2.36	98	2.5	2.24	97	2.3								7.23	10.9			1	
13	0.127										0.114															7.09	10.9			
14	0.155										0.142																			
15	0.118										0.104																			
16	0.143										0.126															7.25	10.78			
17	0.141										0.128															6.97	10.62			2
18	0.142	111.85	121.3	73.66	79.9						0.13	3.58	97	3.9	3.53	95	3.8								7.01	10.7				
19	0.138										0.133															7.26	10.8			2
20	0.122	138.92	121.7	120.16	105.2						0.105	2.41	98	2.1	1.7	99	1.5								7.08	10.53				
21	0.17										0.155																			
22	0.134										0.12																			
23	0.148										0.132															7.12	10.87			
24	0.187										0.171															7.15	11.21			3
25	0.171	110.84	146.1	56.51	74.5						0.158	2.98	97	3.9	4.12	93	5.4								6.85	10.4				
26	0.148										0.133															7.06	11			
27	0.139	114.81	124.5	122.66	133.0						0.13	2.85	98	3.1	2.49	98	2.7								7.01	10.86			1	
28	0.175										0.155																			
29	0.134										0.114																			
30	0.133										0.114															6.87	10.78			
31	0.13										0.114															7.11	11.2			7
	AVG	0.151	118	132	107	121					0.138	2.70	98	3.1	3.5	96	4.1								MIN	6.83	MIN	10.10	MIN	2
Permit	0.57		742		1252						15	85	71	15	85	71	6.5	8.0												91
	MAX	0.22	139	167	254.3	310					0.213	3.00		3.5	4.92		6.7								MAX	7.3	MAX	11.2	MAX	7
Limits	1.1										23		107	23			107	8.5												182

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

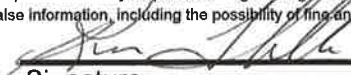
AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GMI =ignest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

Name and Title


 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month December Year 2013

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trewhella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1																		
2			14															
3			13.2															
4	0.15	0.23	12															
5	0.27	0.33	12.9															
6			11.9															
7																		
8																		
9			11															
10			11.9															
11	0.22	0.21	12.7															
12	0.2	0.21	12															
13			13															
14																		
15																		
16			13.9															
17			13															
18	0.25	0.27	12.7															
19			12.7															
20	0.2	0.18	12.9															
21																		
22																		
23			14															
24			13.9															
25	0.23	0.3	13															
26			13															
27	0.19	0.21	13															
28																		
29																		
30			14.2															
31			14.2															
	AVG	AVG	AVG															
	0.21	0.24	13															
Permit	1.0																	
	MAX	MAX	MAX															
	0.27	0.33	14															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month January Year 2014

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL																			
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK											
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.136										0.134															7.06	11			
2	0.132	134.29	128.8	109.74	105.3						0.115	4.32	97	4.1	5.91	95	5.7	7.49	10.92						7.49	10.92				
3	0.151	101.82	125.7	65.91	81.4						0.148	4.2	96	5.2	5.21	92	6.4	7.58	10.82	1						7.58	10.82			
4	0.172										0.159																			
5	0.124										0.11																			
6	0.126										0.117															7.32	10.92			
7	0.171										0.153															7.5	11	1		
8	0.139	109.7	109.8	188.18	188.3						0.12	3.84	96	3.8	4.96	97	5.0	7.73	11.25						7.73	11.25				
**9	0.17	61.93	76.4								0.148	2.8	95	3.5											7.5	11.25	1			
10	0.259										0.247														7.65	11.01				
11	0.288										0.265																			
12	0.481										0.457																			
13	0.425										0.424															7.68	12			
14	0.36										0.353															6.99	11.23	1		
15	0.244	54	132.9	47.93	117.9						0.295	3.42	94	8.4	2.68	94	6.6	7.38	11.43						7.38	11.43				
16	0.252	58.75	121.5	242.41	501.4						0.248	3.05	95	6.3	2.04	99	4.2	7.16	11.48	2					7.16	11.48				
17	0.265										0.249															7.43	11.3			
18	0.241										0.219																			
19	0.185										0.165																			
20	0.188										0.163														7.29	11.6				
21	0.184										0.164														7.48	11.56				
22	0.165	119.65	145.7	311.76	379.6						0.146	3.75	97	4.6	3.09	99	3.8	7.42	11.55	1					7.42	11.55				
23	0.164	46.29	61.0	87.71	115.6						0.158	2.19	95	2.9	1.27	99	1.7	7.37	11.52						7.37	11.52				
24	0.209										0.19															7.45	11.55	2		
25	0.147										0.13																			
26	0.137										0.119																			
27	0.13										0.11															7.05	11.5			
28	0.177										0.154															7.64	11.24	1		
29	0.122	164.4	138.5	331.21	279.0						0.101	2.71	98	2.3	2.51	99	2.1	7.55	10.81						7.55	10.81				
30	0.169	88.38	109.8	51.44	63.9						0.149	2.27	97	2.8	2.36	95	2.9	7.66	11.1	1					7.66	11.1				
31	0.168																									7.44	11.54			
	AVG 0.203	AVG 94	AVG 115	AVG 160	AVG 204	AVG 0.190	AVG 3.26	AVG 96	AVG 4.4	AVG 3.3	AVG 97	AVG 4.3	AVG 6.99	AVG 10.81	AVG 1															
Permit	0.57		742		1252			15	85	71	15	85	71	6.5	8.0	91														
	AVG 0.48	AVG 164	AVG 146	AVG 331.2	AVG 501	AVG 0.457	AVG 4.26		AVG 7.4	AVG 5.56		AVG 6.1	AVG 7.73	AVG 12.0	AVG 1															
Limits	1.1							23		107	23		107	8.5		182														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month January Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2WEEK	2WEEK	5WEEK												
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C												
1			13.7												
2	0.35	0.34	14												
3	0.37	0.46	13												
4															
5															
6			12.9												
7			12.9												
8	0.35	0.35	13.2												
9	0.21	0.26	13.2												
10			13.3												
11															
12															
13			12.9												
14			13												
15	0.26	0.64	12.7												
16	0.3	0.62	13.1												
17			13												
18															
19															
20			12.8												
21			12.9												
22	0.16	0.19	12.9												
23	0.25	0.33	12.7												
24			12.9												
25															
26															
27			12.7												
28			12.9												
29	0.85	0.71	13												
30	0.68	0.85	13.4												
31			13.5												
	AVG 0.38	AVG 0.48	AVG 13												
Permit	1.0														
	MGD 0.85	MGD 1	MAX 14												
Limits	2.0														

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month February Year 2014

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL										
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK	
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.229					0.209										
2	0.168					0.148										
3	0.158					0.136								7.4	11.14	
4	0.162					0.141								7.29	11.83	1
5	0.149	126.67	142.6	114.12	128.5	0.135	3.06	98	3.4	1.79	98	2.0	7.13	11.43		
6	0.14	126.86	143.9	217.44	246.6	0.136	2.72	98	3.1	3.2	99	3.6	7.07	11.43	1	
7	0.132					0.126								7.34	12.1	
8	0.127					0.114										
9	0.122					0.11										
10	0.13					0.117								6.95	11.4	
11	0.218					0.199								7.16	11.63	3
12	0.214	38.06	60.9	86	137.7	0.192	3.34	91	5.3	2.09	98	3.3	7.34	12.25		
13	0.288	47.63	106.5			0.268	1.9	96	4.2				7.15	11.25	1	
14	0.281			29.13	64.1	0.264				2.1	93	4.6	6.95	11.2		
15	0.339					0.316										
16	0.337					0.305										
17	0.464					0.418								7.1	11.4	
18	0.74					0.741								6.6	11.3	
19	0.606			37	192.9	0.625				1.4	96	7.3	6.78	12.18	2	
20	0.5	43.77	184.7	23.5	99.2	0.506	3	93	12.7	1.75	93	7.4	6.93	12.19		
21	0.471	53.84	212.8			0.474	1.79	97	7.1				6.9	12.11	1	
22	0.411					0.4										
23	0.308					0.291										
24	0.271					0.251								7.11	10.96	
25	0.307					0.281								7.03	12.68	
26	0.29			165.27	376.3	0.273				4.48	97	10.2	6.94	11.88	1	
27	0.262	66.22	139.2			0.252	3.65	94	7.7				7.41	11.51		
28	0.233	90.81	162.8	109.38	196.1	0.215	2.79	97	5.0	4.24	96	7.6	6.7	11.74	1	
29																
30																
31																
	AVG 0.288	AVG 74	AVG 144	AVG 98	AVG 180	AVG 0.273	AVG 2.78	AVG 95	AVG 6.1	AVG 2.6	AVG 96	AVG 5.8	MIN 6.60	MIN 10.96	MIN 1	
Permit	0.57	742	1252	15	85	71	15	85	71	6.5	8.0	91				
	AVG 0.74	AVG 127	AVG 213	AVG 217.4	AVG 376	AVG 0.741	AVG 3.22		AVG 9.9	AVG 4.36	AVG 8.9	AVG 7.41	AVG 12.7	AVG 1		
Limits	1.1					23		107	23		107	8.5		182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month February Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1																		
2																		
3					12.7													
4					11.9													
5	0.28	0.32			10													
6	0.32	0.36			9.7													
7					10.4													
8																		
9																		
10					12													
11					12.7													
12	0.28	0.45			13													
13	0.22	0.49			12.8													
14					13.1													
15																		
16																		
17					13.2													
18					13													
19	0.19	0.99			11.5													
20	0.28	1.18			11.8													
21					11.7													
22																		
23																		
24					12.1													
25					12.2													
26	0.25	0.57			12.3													
27	0.23	0.48			12.4													
28					13.3													
29																		
30																		
31																		
	^{AVI} 0.26	^{AVC} 0.61			^{AVG} 12													
Permit	1.0																	
	^{MXI} 0.32	^{MXL} 1.18			^{MAX} 13													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month **March** Year **2014**

Facility **Nar McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

Plant Operator **Kevin Trehwella**

Plant Typ **SBR and UV Disinfection**

Population **1600**

Frequer	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL																				
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.27									0.253																					
2	0.211									0.191																					
3	0.25									0.215																6.83	11.38				
4	0.333									0.313																6.8	11.44				
5	0.398	46.05	148.2	141.34	455.0	0.386	3.48	92	11.2	2.8	98	9.0	6.54	11.51	1																
6	0.601	21.7	105.1	28.6	138.6	0.581	2.14	90	10.4	1.24	96	6.0	6.62	11.67																	
7	0.766									0.77																6.6	11.76	1			
8	0.504									0.549																					
9	0.588									0.26																					
10	0.678									0.728																7.02	11.31				
11	0.456									0.475																6.95	12.01				
12	0.377	32.09	101.4	61	192.8	0.379	2.06	94	6.5	1	98	3.2	7.07	12.35	1																
13	0.29	66	159.1	82.5	198.8	0.289	0.98	99	2.4	3.2	96	7.7	7.27	12.2																	
14	0.26									0.256																6.8	13.42	3			
15	0.314									0.339																					
16	0.287									0.269																					
17	0.414									0.405																6.65	11.3				
18	0.342									0.353																7.01	12.42	1			
19	0.289	38.25	91.2	96.99	231.3	0.286	2.34	94	5.6	2.88	97	6.9	6.6	11.52																	
20	0.273	29.44	66.5	120.44	272.2	0.271	1.52	95	3.4	1.3	99	2.9	7.22	10.53																	
21	0.248									0.242																7.11	10.35	1			
22	0.273									0.261																					
23	0.217									0.204																					
24	0.216									0.204																6.88	10.3				
25	0.199									0.189																7.4	9.3	1			
26	0.202	43.38	70.5	71.61	116.5	0.195	1.24	97	2.0	2.6	96	4.2	7.33	9.88																	
27	0.215	36.75	65.3	293.38	521.2	0.213	2.75	93	4.9	3.04	99	5.4	6.84	9.77																	
28	0.271									0.261																	6.74	9.78	1		
29	0.3									0.285																					
30	0.365									0.347																					
31	0.341									0.344																	6.84	10.1			
	AVG 0.347	AVG 39	AVG 101	AVG 112	AVG 266	AVG 0.333	AVG 2.06	AVG 94	AVG 5.8	AVG 2.3	AVG 97	AVG 5.7	MIN 6.54	MIN 9.30	MIN 1																
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91																
	AVG 0.77	AVG 66	AVG 159	AVG 293.4	AVG 521	AVG 0.77	AVG 2.81		AVG 10.8	AVG 2.8		AVG 7.5	AVG 7.4	AVG 13.4	AVG 1																
Limits	1.1						23		107	23		107	8.5		182																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month March

Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1																		
2																		
3					13													
4					12.9													
5	0.13		0.42		12.7													
6	0.11		0.55		12.6													
7					12.2													
8																		
9																		
10					12.9													
11					13.1													
12	0.28		0.89		11.6													
13	0.17		0.41		12.2													
14					11.4													
15																		
16																		
17					13.6													
18					13													
19	0.26		0.62		13.3													
20	0.24		0.57		12.9													
21					13.6													
22																		
23																		
24					14.1													
25					14													
26	0.14		0.23		13.6													
27	0.16		0.28		14													
28					14													
29																		
30																		
31					13.9													
	^{AVI} 0.19		^{AVC} 0.50		^{AVG} 13													
Permit	1.0																	
	^{MXI} 0.28		^{MXL} 0.89		^{MAX} 14													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month April Year 2014

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL											
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK		
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY MG/L	LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN MG/L	FECAL COLIFORM #/100 ML
1	0.282					0.278									6.91	9.92	
2	0.22	46.75	84.2	48.3	87.0	0.216	1.2	97	2.2	3.12	94	5.6	7.05	10.09			
3	0.207	106.13	178.8	115.48	194.5	0.202	1.49	99	2.5	1.73	99	2.9	7	10.36	1		
4	0.2					0.193								6.62	10.48	1	
5	0.248					0.239											
6	0.203					0.192											
7	0.217					0.209								7.16	10.23		
8	0.197					0.189								7.29	11.61	1	
9	0.184	57.15	86.7	119.15	180.9	0.182	3.35	94	5.1	3	97	4.6	7.24	10.27	1		
10	0.179	98.15	146.5	172.35	257.3	0.179	0.4	100	0.6	2.52	99	3.8	6.85	11.8			
11	0.215					0.211								6.76	11		
12	0.165					0.159											
13	0.163					0.155											
14	0.16					0.154								6.86	10.09		
15	0.192					0.188								7.21	10.01	1	
16	0.149	95.63	114.8	298.92	359.0	0.144	1.6	98	1.9	1.64	99	2.0	7.22	9.88			
17	0.161	141.45	180.5	236.22	301.4	0.153	2.54	98	3.2	3.93	98	5.0	6.86	9.9			
18	0.237					0.228								6.88	10.13	1	
19	0.276					0.277											
20	0.227					0.222											
21	0.22					0.216								7.18	10.67		
22	0.197					0.195								7.02	10.38	1	
23	0.198	127.25	204.8	241.67	389.0	0.193	3.21	97	5.2	5.25	98	8.5	7.1	10	1		
24	0.23	79.59	149.4	162.96	305.8	0.225	1.8	98	3.4	3.68	98	6.9	6.66	10.19			
25	0.378					0.383								7.22	10.52		
26	0.318					0.319											
27	0.239					0.232											
28	0.293					0.291								6.91	10.71		
29	0.261					0.261								7.37	10.77	1	
30	0.217	63	114.0	95.19	172.3	0.217	1.86	97	3.4	2.69	97	4.9	7.51	10.78			
31																	
	AVG 0.221	AVG 91	AVG 140	AVG 166	AVG 250	AVG 0.217	AVG 1.94	AVG 98	AVG 3.0	AVG 3.1	AVG 98	AVG 4.9	MIN 6.62	MAX 9.88	MIN 1		
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91		
	AVG 0.38	AVG 141	AVG 205	AVG 298.9	AVG 389	AVG 0.383	AVG 2.51		AVG 4.3	AVG 4.47		AVG 7.7	AVG 7.51	AVG 11.8	AVG 1		
Limits	1.1						23		107	23		107	8.5		182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM / -day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month April Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1					14.3													
2	0.27		0.49		14.2													
3	0.17		0.2		13													
4					14.9													
5																		
6																		
7					14.4													
8					14.8													
9	0.15		0.23		14.2													
10	0.13		0.19		15													
11					15.2													
12																		
13																		
14					16													
15					15													
16	0.18		0.22		15													
17	0.19		0.24		15.3													
18					14.3													
19																		
20																		
21					14.6													
22					14.4													
23	0.15		0.24		14.8													
24	0.18		0.34		15													
25					14.1													
26																		
27																		
28					15.2													
29					14.4													
30	0.07		0.13		16.6													
31																		
	^{AVI} 0.17		^{AVC} 0.25		^{AVG} 15													
Permit	1.0																	
	^{MXL} 0.27		^{MXL} 0.49		^{MAX} 17													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month **May** Year **2014**

Facility **Nar McCleary Wastewater Treatment Plant**

County **Grays Harbor**

Receiving Water **East Fork Wildcat Creek**

Plant Operator **Kevin Trehwella**

Plant Typ **SBR and UV Disinfection**

Population **1600**

Frequer	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																		
	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML			
1	0.192	121.05	194.8	146.3	235.5	0.193	0.47	100	0.8	2.1	99	3.4	7.4	10.71																			
2	0.171					0.176							7.17	10.15	1																		
3	0.217					0.221																											
4	0.218					0.209																											
5	0.351					0.345							7.13	10.39																			
6	0.358					0.376							6.9	10.78																			
7	0.286	59.98	151.1	142.99	360.1	0.302	2.77	95	7.0	3.35	98	8.4	6.92	10.5	1																		
8	0.248	105.4	238.2	62.03	140.2	0.271	2.02	98	4.6	1.22	98	2.8	6.75	11.22																			
9	0.259					0.263							6.87	11.24	1																		
10	0.374					0.389																											
11	0.28					0.291																											
12	0.228					0.233							6.93	10.68																			
13	0.202					0.208							7.32	10.63	1																		
14	0.179	110.45	178.7	296.94	480.4	0.194	1.11	99	1.8	2	99	3.2	7.37	10.16	1																		
15	0.164	97.75	141.0	211.1	304.6	0.173	1.4	99	2.0	5	98	7.2	7.13	9.94																			
16	0.154					0.177							7.24	9.53																			
17	0.2					0.21																											
18	0.154					0.159																											
19	0.16					0.168							7.04	11.31																			
20	0.146					0.15							7.25	9.71	1																		
21	0.135	133.28	155.6	49.91	58.3	0.14	4.98	96	5.8	3.29	93	3.8	7.06	9.7																			
22	0.132	164.33	187.8	314.83	359.7	0.137	2.61	98	3.0	2.17	99	2.5	7.35	9.66	1																		
23	0.17					0.178							6.98	9.49																			
24	0.155					0.164																											
25	0.125					0.129																											
26	0.133					0.138							7.31	9.69																			
27	0.143					0.146							7.43	9.27																			
28	0.126	108.5	118.5	195.83	214.0	0.131	1.08	99	1.2	1.69	99	1.8	7.27	9.49	1																		
29	0.124	141.17	156.6	167.42	185.7	0.133	1.61	99	1.8	1.64	99	1.8	7.23	9.64																			
30	0.123					0.125							7.25	9.68	1																		
31	0.116					0.125																											
	AVG	0.194	AVG	116	AVG	169	AVG	176	AVG	260	AVG	0.202	AVG	2.01	AVG	98	AVG	3.1	AVG	2.5	AVG	98	AVG	3.9	MIN	6.75	MAX	9.27	MIN	9.27	MAX	1	
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91																		
	AVG	0.37	AVG	164	AVG	238	AVG	314.8	AVG	480	AVG	0.389	AVG	3.80	AVG	5.8	AVG	3.5	AVG	3.5	AVG	5.6	AVG	5.6	AVG	7.43	AVG	11.3	AVG	11.3	AVG	1	
Limits	1.1									23					107											8.5						182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month May Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY															
1	0.22		0.35															
2																		
3																		
4																		
5																		
6																		
7	0.27		0.68															
8	0.27		0.61															
9																		
10																		
11																		
12																		
13																		
14	0.13		0.21															
15	0.21		0.3															
16																		
17																		
18																		
19																		
20																		
21	0.19		0.22															
22	0.22		0.25															
23																		
24																		
25																		
26																		
27																		
28	0.22		0.24															
29	0.19		0.21															
30																		
31																		
	^{AVI} 0.21		^{AVC} 0.34	^{AVG}														
Permit	1.0																	
	^{MXI} 0.27		^{MXL} 0.68	^{MAX}														
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month June Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK																	
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.119										0.122																				
2	0.122										0.127																7.49	9.71			
3	0.118										0.137																7.52	9.68	1		
4	0.113	174	184.3	275.1	291.3	0.127	2.43	99	2.6	2.91	99	3.1	7.27	9.7	1										7.27	9.7	1				
5	0.117	170.3	171.8	241.8	244.0	0.121	1.27	99	1.3	1.18	100	1.2	7.27	9.89											7.27	9.89					
6	0.115										0.121															7.46	9.67				
7	0.107										0.121																				
8	0.112										0.124																				
9	0.114										0.116															7.42	10.7				
10	0.114										0.133															7.55	9.41				
11	0.112	274.8	259	180	169.6	0.113	4.31	98	4.1	3.35	98	3.2	7.49	9.3	1										7.49	9.3	1				
12	0.106	166.5	152.7	223.7	205.2	0.11	1.29	99	1.2	1.65	99	1.5	7.36	9.4											7.36	9.4					
13	0.113										0.13															7.42	9.53	1			
14	0.117										0.118																				
15	0.117										0.118																				
16	0.123										0.124															7.18	9.54				
17	0.126										0.136															7.28	9.74	1			
18	0.121	179.6	170.8	334.7	318.2	0.114	6.18	97	5.9	1.69	99	1.6	7.37	9.88	1										7.37	9.88	1				
19	0.108										0.097															7.2	9.6				
20	0.101	178.1	123.3	134	92.8	0.083	1.95	99	1.3	0.62	100	0.4	7.34	9.55											7.34	9.55					
21	0.104										0.097																				
22	0.1										0.079																				
23	0.102										0.081															7.35	9.4				
24	0.106										0.104															7.43	9.75	1			
25	0.107	100.2	72.67	129.7	94.1	0.087	2.2	98	1.6	2.72	98	2.0	7.33	9.8	1										7.33	9.8	1				
26	0.106	216.4	171.5	312.3	247.4	0.095	2.02	99	1.6	2.31	99	1.8	7.62	9.56											7.62	9.56					
27	0.105										0.091															7.22	9.45				
28	0.127										0.122																				
29	0.131										0.114																				
30	0.121										0.11															7.56	9.57				
31																															
	AVG	0.11	182	163	229	208	0.11	3	98	2.4	2.1	99	1.8	7.18	9.30	1.00															
Permit	0.57		742		1252			15	85	31	15	85	71	6.5	8.7	91															
	MAX	0.13	275	259	335	318	0.14	4.07		3.9	2.52		2.38	7.6	10.7	1.0															
Limits	1.1							23		47	23		107	8.5		182															

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella, Wastewater Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month June Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY															
1																	
2																	
3																	
4	0.1	0.11															
5	0.13	0.13															
6																	
7																	
8																	
9																	
10																	
11	0.27	0.25															
12	.21.	0.19															
13																	
14																	
15																	
16																	
17																	
18	0.17	0.16															
19																	
20	0.27	0.19															
21																	
22																	
23																	
24																	
25	0.19	0.15															
26	0.17	0.13															
27																	
28																	
29																	
30																	
31																	
	0.2	0.2															
Permit	1.0	4.32															
	0.3	0.3															
Limits	2.0																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella, Wastewater MGR
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - MAY THROUGH SEPTEMBER																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK													
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.11										0.099													7.66	9.32		1	
2	0.104	164.5	127.6		216.2	167.7					0.093	2.03	99	1.6		1.625	99	1.3					7.64	9.2		1		
3	0.104	256.8	197		222.3	170.6					0.092	1.95	99	1.5		3.9	98	3.0					7.54	9.38				
4	0.106										0.102													7.51	9.3			
5	0.104										0.091																	
6	0.097										0.094																	
7	0.104										0.091													7.25	9.13			
8	0.145										0.134													7.34	8.93		2	
9	0.106	155.1	119		55.06	42.2					0.092	2.16	99	1.7		1.22	98	0.9					7.21	9.04				
10	0.106	176.9	134.2		238.2	180.8					0.091	2.1	99	1.6		2.67	99	2.0					7.31	9.24		1		
11	0.15										0.132													7.49	11.4			
12	0.127										0.111																	
13	0.101										0.086																	
14	0.104										0.09													7.49	9.47			
15	0.156										0.138													7.41	9.47		1	
16	0.107	139.0	100.9		144.5	104.9					0.087	7.4	95	5.4		3.18	98	2.3					7.46	9.15				
17	0.108	133.7	100.4		413.1	310.1					0.09	4.86	96	3.6		2.72	99	2.0					7.46	9.29		1		
18	0.105										0.087													7.24	9.3			
19	0.153										0.133																	
20	0.108										0.091																	
21	0.113										0.093													7.53	9.41			
22	0.111										0.091													8	9.32		1	
23	0.106	194.7	159.1		105.4	86.1					0.098	1.9	99	1.6		1.49	99	1.2					7.13	9.2				
24	0.143	113.0	126.3		273.1	305.2					0.134	1.47	99	1.6		2.31	99	2.6					7.56	9.94		1		
25	0.118										0.112													7.09	9.3			
26	0.155										0.136																	
27	0.103										0.084																	
28	0.106										0.089													7.39	9.26			
29	0.097										0.083													7.24	9.64		1	
30	0.1	166.1	133		101.9	81.6					0.096	7.24	96	5.8		3.51	97	2.8					7.55	9.66				
31	0.104	180.5	132.5		77.96	57.2					0.088	2.37	99	1.7		2.36	97	1.7					7.49	9.03		1		
	AVG	0.11	168	133	185	151					0.10	3.3	98	2.6		2.5	98	2					7.09	8.93		1.07		
Permit	0.57		742			1252						15	85	31		15	85	71					6.5	8.7		91		
	MAX	0.16	257	197	413	310					0.138	4.8		4.5		5.5							2.25	8	11.4		1	
Limits	1.1											23		47		23							107	8.5		182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GEM / =highest / -day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

 Kevin Trehwella WWTP Plant Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2	0.16	0.12													
3	0.17	0.13													
4															
5															
6															
7															
8															
9	0.26	0.2													
10	0.07	0.05													
11															
12															
13															
14															
15															
16	0.23	0.17													
17	0.3	0.23													
18															
19															
20															
21															
22															
23	0.17	0.14													
24	0.16	0.19													
25															
26															
27															
28															
29															
30	0.39	0.31													
31	0.27	0.23													
	<small>AVG</small> 0.2	<small>AVG</small> 0.2													
Permit	1.0	4.32													
	<small>AVG</small> 0.4	<small>AVG</small> 0.3													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month August Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																					
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK															
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.097										0.097															7.47	9.86			
2	0.143										0.128																			
3	0.101										0.086																			
4	0.105										0.091															7.47	9.27			
5	0.104										0.092															7.3	9.37			
6	0.104	170	129	243.3	184.6	0.091	1.24	99	0.9	1.28	99	1.0	7.34	9.27	1															
7	0.105	173	142.9	477.5	394.3	0.099	2.07	99	1.7	0.835	100	0.7	7.44	9.37	1															
8	0.101										0.088															7.09	9.22			
9	0.149										0.136																			
10	0.103										0.091																			
11	0.102										0.090															7.35	9.5			
12	0.103										0.093															7.47	9.37	1		
13	0.105	158.4	125.5	115	91.1	0.095	1.05	99	0.8	1.29	99	1.0	7.38	9.27																
14	0.125	135.4	129.8	194.7	186.7	0.115	2.11	98	2.0	3.59	98	3.4	7.48	9.11	2															
15	0.156										0.061															7.38	9.14			
16	0.240										0.163																			
17	0.107										0.093																			
18	0.108										0.093															7.2	9.32			
19	0.111										0.096															7.37	9.71	1		
20	0.108	172.1	137.8	208.3	166.8	0.096	4.16	98	3.3	2.42	99	1.9	7.27	9.48	1															
21	0.107	232.8	182.5	299.5	234.8	0.094	2.04	99	1.6	2.8	99	2.2	7.11	9.93																
22	0.151										0.137															7.05	9.37			
23	0.140										0.126																			
24	0.101										0.088																			
25	0.110										0.096															7.38	9.66			
26	0.109										0.096															7.21	9.52			
27	0.107										0.097															7.33	9.42			
28	0.104	170.5	129.4	74.7	56.7	0.091	5.95	97	4.5	2	97	1.5	7.15	8.93	7															
29	0.106	168.7	135	158.9	127.3	0.096	4.22	97	3.4	2.67	98	2.1	7.15	9.24	1															
30	0.134										0.123																			
31	0.118										0.108																			
	AVG	0.118	AVG	173	AVG	139	AVG	221	AVG	180	AVG	0.101	AVG	2.86	AVG	98	AVG	2.3	AVG	2.1	AVG	99	AVG	1.7	MIN	7.05	MIN	8.93	MIN	1
Permit		0.57		742		1252				15		85		31		15		85		71		6.5		8.7		91				
	MAX	0.240	MAX	233	MAX	183	MAX	478	MAX	394	MAX	0.163	MAX	5.085	MAX	3.95	MAX	2.61	MAX	34.95	MAX	7.5	MAX	9.9	MAX	3				
Limits		1.1								23		47		23		107		8.5		182										

Please Circle ALL Permit Violations Mail to P.O. Box 4775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =nighest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month August Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3															
4															
5															
6	0.26	0.2													
7	0.14	0.12													
8															
9															
10															
11															
12															
13	0.3	0.24													
14	0.19	0.18													
15															
16															
17															
18															
19															
20	0.17	0.14													
21	0.18	0.14													
22															
23															
24															
25															
26															
27															
28	0.21	0.16													
29	0.25	0.2													
30															
31															
	AVG	0.2	AVG	0.2											
Permit	1.0	4.32													
	AVG	0.3	AVG	0.2											
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month September Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																							
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																	
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML		
1	0.111										0.099															7.19	9.26					
2	0.123										0.106																7.38	9.2				
3	0.12	91.2	81.39	46.85	41.8	0.107	7.77	91	6.9	2.34	95	2.1	7.35	9.18	1											7.5	9.35					
4	0.116										0.1																					
5	0.11	129	105.4	205	167.6	0.098	3.5	97	2.9	2.425	99	2.0	7.21	9.14	1																	
6	0.147										0.135																					
7	0.101										0.088																					
8	0.119										0.105																6.92	9.14				
9	0.113										0.102																7.11	9.43				
10	0.116	147.3	124.1	215.5	181.5	0.101	8.82	94	7.4	3.22	99	2.7	6.91	9.3	1																	
11	0.112	186.1	152.1	102.9	84.1	0.098	3.73	98	3.0	2.8	97	2.3	7.37	9.53	1																	
12	0.108										0.095																					
13	0.132										0.119																					
14	0.106										0.092																					
15	0.112										0.096																7.33	9.3				
16	0.108										0.094																7.25	9.4	1			
17	0.106	176.0	136.5	221.4	171.7	0.093	1.52	99	1.2	0.65	100	0.5	7.33	9.07	1																	
18	0.109										0.094																					
19	0.114	175.3	144.8	198.5	163.9	0.099	1.1	99	0.9	0.42	100	0.3	7.52	9.69																		
20	0.108										0.106																					
21	0.111										0.097																					
22	0.119										0.104																7.39	9.42				
23	0.121										0.107																7.48	9.09				
24	0.14	165.6	168.5	281.9	286.9	0.122	4.77	97	4.9	0.85	100	0.9	7.15	9.48	1																	
25	0.145	154.1	170.9	160.7	178.2	0.133	1.14	99	1.3	1.44	99	1.6	7.33	9.04																		
26	0.131										0.118																	6.97	9.08	1		
27	0.201										0.193																					
28	0.136										0.121																					
29	0.134										0.117																7.35	9.04				
30	0.13										0.117																7.17	9.08	1			
31																																
	AVG	0.122	153	135	179	159	0.109	4.04	97	3.6	1.8	98	1.5	6.91	9.04	1																
Permit		0.57		742		1252			15	85	31	15	85	71	6.5	8.7	91															
	MAX	0.201	186	171	282	287	0.193	6.275		5.2	3		2.5	7.5	9.7	1																
Limits		1.1							23		47	23		107	8.5		182															

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GmI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month September Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trewhella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3	0.21	0.19													
4	0.09	0.08													
5															
6															
7															
8															
9															
10	0.17	0.14													
11	0.14	0.11													
12															
13															
14															
15															
16															
17	0.18	0.14													
18															
19	0.29	0.24													
20															
21															
22															
23															
24	0.27	0.27													
25	0.29	0.32													
26															
27															
28															
29															
30															
31															
	<small>AVG</small> 0.21	<small>AVG</small> 0.19													
Permit	1.0	4.32													
	<small>AVW</small> 0.29	<small>AVW</small> 0.32													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Plant Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

 Month October Year 2014

 Facility Nar McCleary Wastewater Treatment Plant

 County Grays Harbor

 Receiving Water East Fork Wildcat Creek

 Plant Operator Kevin Trehwella

 Plant Typ SBR and UV Disinfection

 Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL										
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK	
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.126	135.38	125.3	69.9	64.7	0.111	6	96	#	0.63	99	0.6	7.26	9.37		
2	0.128	130.44	120.8	58.84	54.5	0.111	1.8	99	1.7	2.8	95	2.6	7.31	9.43	2	
3	0.119					0.103							7.08	11.2		
4	0.166					0.153										
5	0.118					0.102										
6	0.123					0.107							7.27	9.83		
7	0.109					0.097							7.23	9.4	1	
8	0.111	186.92	154.3	113.57	93.8	0.099	4.03	98	3.3	3	97	2.5	7.61	9.24		
9	0.105	141.03	112.9	192.22	153.9	0.096	2.31	98	1.8	1.6	99	1.3	7.29	9.2	1	
10	0.107					0.096							7.38	10.56		
11	0.169					0.154										
12	0.109					0.095										
13	0.114					0.099							7.16	9.2		
14	0.156					0.136							7.37	9.52		
15	0.137	167.63	176.2	234.6	246.5	0.126	1.97	99	2.1	2.2	99	2.3	7.36	9.96	1	
16	0.145	143.11	154.0	235.88	253.8	0.129	2.3	98	2.5	1.68	99	1.8	7.24	10.1	1	
17	0.137					0.121							7.13	9.89		
18	0.186					0.169										
19	0.141					0.122										
20	0.138					0.122							7.81	9.44		
21	0.141					0.124							7.04	9.6	3	
22	0.152	128	147.3	150.48	173.2	0.138	9.04	93	10.4	5.71	96	6.6	7.1	9.58		
23	0.324	65.48	118.0	195.03	351.3	0.216	2.02	97	3.6	3.24	98	5.8	7.11	10.42	3	
24	0.25					0.243							7.04	9.75		
25	0.256					0.226										
26	0.223					0.197										
27	0.304					0.258							7.34	9.88	1	
28	0.221					0.214							6.9	9.43		
29	0.248	75.41	137.7	229.41	419.0	0.219	6.53	91	11.9	1.45	99	2.6	6.98	9.82		
30	0.226	62.92	110.2	89.05	156.0	0.21	1.85	97	3.2	1.6	98	2.8	6.86	10.15	1	
31	0.218					0.194							6.87	9.71		
	AVG 0.168	AVG 124	AVG 136	AVG 157	AVG 197	AVG 0.148	AVG 3.79	AVG 97	AVG 4.6	AVG 2.4	AVG 98	AVG 2.9	MIN 6.86	MIN 9.20	MAX 1	
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91	
	AVG 0.32	AVG 187	AVG 176	AVG 235.9	AVG 419	AVG 0.258	AVG 5.53		AVG 7	AVG 4.48		AVG 6.2	AVG 7.8	AVG 11.2	AVG 1	
Limits	1.1						23		107	23		107	8.5		182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040	Month October	Year 2014
Facility Name McCleary Wastewater Treatment Plant	County Grays Harbor	
Receiving Water East Fork Wildcat Creek	Plant Operator Kevin Trehwella	
Plant Type SBR and UV Disinfection	Population 1600	

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK													
Date	TOTAL AMMONIA	TOTAL AMMONIA	TEMPERATURE*													
	MG/L	LBS/DAY	DEG C													
1	0.16	0.15	19.7													
2	0.17	0.16	19.7													
3			19.7													
4																
5																
6			20.2													
7			20													
8	0.22	0.18	19.9													
9	0.17	0.14	19.9													
10			19.2													
11																
12																
13			20													
14			19.7													
15	0.24	0.25	19.5													
16	0.22	0.24	18.7													
17			18.9													
18																
19																
20			19													
21			19													
22	0.58	0.65	18.2													
23	0.18	0.32	18.4													
24			17.9													
25																
26																
27			17.7													
28			17.2													
29	0.25	0.46	17.4													
30	0.15	0.26	17.7													
31			17.7													
	AVG 0.23	AVG 0.3	AVG 19													
Permit	1.0															
	MXL 0.58	MXL 0.7	MAX 20													
Limits	2.0															

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title _____

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month November Year 2014

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL																									
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.179										0.089																				
2	0.205										0.194																				
3	0.197										0.173															7.06	9.93				
4	0.277										0.237															7.09	10.01		2		
5	0.3	56.67	130.4	215.6	496.3	0.276	3.97	93	9.1	1.29	99	3.0	7.21	10.09																	
6	0.229	72.67	129.7	219.5	391.8	0.214	0.8	99	1.4	1.82	99	3.2	6.9	9.57	1																
7	0.268										0.238															6.65	9.71				
8	0.229										0.216																				
9	0.195										0.175																				
10	0.189										0.167															7.63	10.14				
11	0.17										0.15															7.3	9.8		1		
12	0.162	103.4	120.7	196.7	229.7	0.14	0.41	100	0.5	0.6	100	0.7	7.3	10.15																	
13	0.164	124.98	144.9	239.62	277.8	0.139	2.18	98	2.5	2.2	99	2.6	7.19	10.17	4																
14	0.191										0.167															7.04	10.12				
15	0.195										0.169																				
16	0.146										0.123																				
17	0.146										0.12															7.32	10.14				
18	0.133										0.115															7.34	10.16		1		
19	0.148	72.5	69.5	90.83	87.1	0.115	1.52	98	1.5	3.7	96	3.5	7.31	10.15																	
20	0.126	140.44	125.3	170.29	152.0	0.107	1.34	99	1.2	1.99	99	1.8	7.32	10.27	1																
21	0.129										0.109															6.98	10.17				
22	0.185										0.165																				
23	0.166										0.145																				
24	0.193										0.166															7.25	9.88				
25	0.193										0.168															7.06	9.78		1		
26	0.304	20.81	25.5	85.37	104.7	0.147	1.86	91	2.3	5.375	94	6.6	7.05	9.89	2																
27	0.315	27.96	67.2	76.68	184.2	0.288	1.22	96	2.9	3.37	96	8.1	6.84	10.01																	
28	0.426										0.42															6.95	9.89				
29	0.414										0.409																				
30	0.352										0.328																				
31																															
	AVG	0.218	AVG	77	AVG	102	AVG	162	AVG	240	AVG	0.189	AVG	1.66	AVG	97	AVG	2.7	AVG	2.5	AVG	98	AVG	3.7	MIN	6.65	MIN	9.57	MIN	1	
Permit	0.57		742			1252			15	85	71	15	85	71	6.5	8.0	91														
	AVG	0.43	AVG	140	AVG	145	AVG	239.6	AVG	496	AVG	0.42	AVG	2.39		AVG	5.3	AVG	4.37			AVG	7.4	AVG	7.6	MAX	10.3	AVG		1	
Limits	1.1								23		107	23			107	8.5															182

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

 Month November Year 2014

 Facility Name McCleary Wastewater Treatment Plant

 County Grays Harbor

 Receiving Water East Fork Wildcat Creek

 Plant Operator Kevin Trehwella

 Plant Type SBR and UV Disinfection

 Population 1600
EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA		TOTAL AMMONIA														
	MG/L		LBS/DAY		TEMPERATURE*												
					DEG C												
1																	
2																	
3					17.7												
4					17												
5	0.07		0.16		17.3												
6	0.04		0.07		17												
7					16.2												
8																	
9																	
10					15.9												
11					15.2												
12	0.1		0.12		14.7												
13	0.1		0.12		14.9												
14					15.4												
15																	
16																	
17					15.7												
18					14												
19	0.12		0.12		14												
20	0.17		0.16		15												
21					15												
22																	
23																	
24					15												
25					15.7												
26	0.21		0.26		15.8												
27	0.14		0.34		15												
28					14.9												
29																	
30																	
31																	
	AVG	0.12	AVG	0.17	AVG	16											
Permit		1.0															
	MXL	0.21	MXL	0.34	MAX	18											
Limits		2.0															

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

 Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

 Month **December** Year **2014**

 Facility **Narr McCleary Wastewater Treatment Plant**

 County **Grays Harbor**

 Receiving Water **East Fork Wildcat Creek**

 Plant Operator **Kevin Trehwella**

 Plant Type **SBR and UV Disinfection**

 Population **1600**

Date	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL									
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK					
	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML				
1	0.248					0.24							6.9	9.8						
2	0.252					0.235							7.35	10.06	5					
3	0.203	67.55	107.0	106.59	168.9	0.19	2.8	96	4.4	3	97	4.8	7.46	10.14						
4	0.193	58.54	61.5	51.79	54.4	0.126	6.16	89	6.5	5.11	90	5.4	7.01	9.73	1					
5	0.186					0.203							7.04	10.31						
6	0.233					0.205														
7	0.195					0.169														
8	0.19					0.091							6.97	8.9						
9	0.219					0.246							7.05	9.8	1					
10	0.206	39.18	58.2	144.94	215.2	0.178	2.28	94	3.4	3.88	97	5.8	6.75	10.41						
11	0.37	15.56	40.9	50.75	133.3	0.315	1.88	88	4.9	2.1	96	5.5	6.66	10.7	4					
12	0.439					0.427							6.74	11.02						
13	0.321					0.292														
14	0.223					0.163														
15	0.242					0.215							7.01	10.33						
16	0.254					0.226							7.3	10.65	1					
17	0.205	42.6	62.5	152.55	223.9	0.176	2.48	94	3.6	2	99	2.9	6.95	11.47						
18	0.196	72.06	100.4	188.7	262.8	0.167	0.64	99	0.9	2	99	2.8	6.61	11	1					
19	0.266					0.223							6.81	10.95						
20	0.238					0.202														
21	0.397					0.32														
22	0.562					0.549							6.89	11.92						
23	0.432					0.418							7.29	11	1					
24	0.322	48.75	122.4	74.74	187.6	0.301	0.97	98	2.4	1.48	98	3.7	6.95	10.58						
25	0.314	30.21	73.3	45.67	110.8	0.291	2.03	93	4.9	0.85	98	2.1	7.05	10.41	1					
26	0.261					0.234							7	10.9						
27	0.237					0.207														
28	0.239					0.22														
29	0.236					0.206							6.94	10.59						
30	0.27					0.24							7.37	10.84	1					
31	0.209	48.68	71.0	97.3	142.0	0.175	2.13	96	3.1	1.05	99	1.5	7.27	11.29	1					
	AVG 0.270	AVW 47	AVG 77	AVW 101	AVG 167	AVG 0.240	AVW 2.37	AVG 94	AVW 3.8	AVG 2.4	AVG 97	AVW 3.8	AVG 6.61	AVW 8.90	AVG 1					
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91					
	MAX 0.56	MAX 72	MAX 122	MAX 188.7	MAX 263	MAX 0.549	MAX 4.48		MAX 5.5	MAX 4.06		MAX 5.7	MAX 7.46	MAX 11.9	MAX 1					
Limits	1.1						23		107	23		107	8.5		182					

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GMI=Highest 1-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

Name and Title


 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month December Year 2014

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2WEEK	2WEEK	5WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1			17															
2			13.7															
3	0.11	0.17	14.1															
4	0.25	0.26	13.9															
5			14.9															
6																		
7																		
8			15															
9			15.2															
10	0.19	0.28	15.2															
11	0.25	0.66	15															
12			14.6															
13																		
14																		
15			14															
16			14.4															
17	0.09	0.13	14															
18	0.05	0.07	14															
19			14.2															
20																		
21																		
22			14															
23			14.7															
24	0.34	0.85	13.7															
25	0.29	0.7	13.7															
26			13.2															
27																		
28																		
29			13.7															
30			12.7															
31	0.2	0.29	12.2															
	AVG 0.20	AVG 0.38	AVG 14															
Permit	1.0																	
	MAX 0.34	MAX 0.85	MAX 17															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW=Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month January Year 2015

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL										
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK	
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	PH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.214					0.188							7.16	11		
2	0.197	46.97	65.0	85.25	118.0	0.166	0.66	99	0.9	1	99	1.4	6.95	11.65		
3	0.227					0.199										
4	0.182					0.153										
** 5	0.328					0.25							6	10.23		
** 6	0.975					1.073							6.45	10.67		
7	0.569					0.595							6.88	10.57		
8	0.429	24.18	85.7	35.84	127.0	0.425	1.08	96	3.8	1.5	96	5.3	7.04	11.16	1	
9	0.313	47.65	120.4	97.35	246.0	0.303	4.43	91	11.2	1.06	99	2.7	6.57	10.29	2	
10	0.316					0.298										
11	0.25					0.232										
12	0.246					0.225							7.11	11		
13	0.223					0.203							7.37	10.6	1	
14	0.213					0.192							7.28	10.65	1	
15	0.207	56.27	86.3	46	70.6	0.184	1.16	98	1.8	0.8	98	1.2	7.13	10.84		
16	0.206	57.7	86.1	139.2	207.8	0.179	1.3	98	1.9	2	99	3.0	7.22	10.49		
17	0.258					0.234										
18	0.279					0.233										
19	0.436					0.418							7.02	10.21		
20	0.372					0.358							6.95	10.37		
21	0.302	107.5	253.7	376.65	889.0	0.283	1.57	99	3.7	2.5	99	5.9	7.01	10.8	1	
22	0.262	32.36	64.2	71.5	141.9	0.238	4.24	87	8.4	1.165	98	2.3	6.84	10.75		
23	0.291					0.269							6.89	10.58	1	
24	0.302					0.265										
25	0.378					0.353										
26	0.322					0.299							6.86	10.39		
27	0.266					0.241							7.1	10	1	
28	0.239	29.4	52.7	95	170.3	0.215	1.27	96	2.3	2.2	98	3.9	7.08	10.21		
29	0.226	34.95	57.4	119.1	195.7	0.197	1.32	96	2.2	0.6	99	1.0	7.3	11.12		
30	0.253					0.222							7.31	11.48	1	
31	0.23					0.2										
	AVG 0.307	AVG 49	AVG 97	AVG 118	AVG 241	AVG 0.287	AVG 1.89	AVG 95	AVG 4.0	AVG 1.4	AVG 98	AVG 3.0	MIN 6.00	MIN 10.00	MIN 1	
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91	
	AVG 0.98	AVG 108	AVG 254	AVG 376.7	AVG 889	AVG 1.073	AVG 2.91		AVG 7.5	AVG 1.83		AVG 4.1	AVG 7.37	AVG 11.7	AVG 1	
Limits	1.1						23		107	23		107	8.5		182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month January Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1					12.7													
2					13.3													
3																		
4																		
5					12.9													
6					12.7													
7					13.2													
8	0.28		0.99		13.3													
9	0.24		0.61		13.6													
10																		
11																		
12					13.7													
13					13													
14					14.1													
15	0.1		0.15		13													
16	0.09		0.13		13.6													
17																		
18																		
19					13.7													
20					13.4													
21	0.09		0.21		12.6													
22	0.13		0.26		12.7													
23					13.7													
24																		
25																		
26					14.2													
27					14.2													
28	0.14		0.25		13.7													
29	0.1		0.16		14.1													
30					13.1													
31																		
	AVG		AVG		AVG													
	0.15		0.35		13													
Permit	1.0																	
	MXL		MXL		MAX													
	0.28		0.99		14													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month February Year 2015

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL																				
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.2										0.173																				
2	0.208										0.182															7.2	11.53				
3	0.208										0.182															7.23	11.77	1			
4	0.206	62.96	96.1	176	268.6	0.183	1.35	98	2.1	1.4	99	2.1	7.04	11.71																	
5	0.207	67.95	103.7	117.88	179.9	0.183	3.01	96	4.6	2.15	98	3.3	6.9	11.08	1																
6	0.295										0.268															6.72	10.73				
7	0.504										0.477																				
8	0.547										0.514																				
9	0.469										0.461															6.71	10.86				
10	0.431										0.437															7.13	11.68	1			
11	0.359										0.326															6.75	10.56	1			
12	0.295	47.25	123.3	95.07	248.2	0.313	1.7	96	4.4	2.6	97	6.8	6.64	11.16																	
13	0.268	41.55	90.1	158.18	343.0	0.26	1.44	97	3.1	2.6	98	5.6	6.85	11.06																	
14	0.272										0.253																				
15	0.226										0.206																				
16	0.212										0.191															6.9	11.17				
17	0.206										0.18															7.2	10.32				
18	0.245	57	105.5	179.32	332.0	0.222	1.72	97	3.2	2.72	98	5.0	7.28	10.5	1																
19	0.195	52.56	75.0	127.4	181.7	0.171	1.58	97	2.3	3.6	97	5.1	6.96	10.61																	
20	0.194										0.17															7.1	10.98	1			
21	0.156										0.144																				
22	0.172										0.15																				
23	0.176										0.148															7.08	10.7				
24	0.168										0.144															7.7	11.04	1			
25	0.164	76.78	89.6	126.25	147.4	0.14	2.77	96	3.2	3.1	98	3.6	7.38	11.63																	
26	0.16	57.31	65.5	175.44	200.5	0.137	2.01	96	2.3	4	98	4.6	7.02	10.5																	
27	0.189										0.168																6.98	10.34	1		
28	0.213										0.191																				
29																															
30																															
31																															
	AVG 0.255	AVW 58	AVG 94	AVW 144	AVG 238	AVG 0.235	AVW 1.95	AVG 97	AVW 3.1	AVG 2.8	AVG 98	AVW 4.5	AVG 6.64	AVW 10.32	AVG 1																
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91																
	AVG 0.55	AVW 77	AVG 123	AVW 179.3	AVG 343	AVG 0.514	AVW 2.39		AVW 3.6	AVG 3.55		AVW 6.2	AVG 7.7	AVW 11.8	AVG 1																
Limits	1.1						23		107	23		107	8.5		182																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month February Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1																		
2					14													
3					13.9													
4	0.11		0.17		13.2													
5	0.08		0.12		14													
6					14.3													
7																		
8																		
9					14.3													
10					14.3													
11					14.6													
12	0.21		0.55		13.9													
13	0.07		0.15		14													
14																		
15																		
16					14.4													
17					14.8													
18	0.16		0.3		13.9													
19	0.06		0.09		14													
20					13.7													
21																		
22																		
23					14.2													
24					14.8													
25	0.07		0.08		14.6													
26	0.19		0.21		14.7													
27					14.9													
28																		
29																		
30																		
31																		
	AVG		AVG		AVG													
	0.12		0.21		14													
Permit	1.0																	
	MXL		MXL		MAX													
	0.21		0.55		15													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

 Month **March** Year **2015**

 Facility **Nar McCleary Wastewater Treatment Plant**

 County **Grays Harbor**

 Receiving Water **East Fork Wildcat Creek**

 Plant Operator **Kevin Trehwella**

 Plant Typ **SBR and UV Disinfection**

 Population **1600**

Frequer	INFLUENT									EFFLUENT - OCTOBER THROUGH APRIL																					
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.158										0.135																				
2	0.158										0.133															7.07	10.47				
3	0.189										0.169															7.2	10.85	1			
4	0.142	72.19	73.5	160.93	163.7	0.122	2.62	96	2.7	3.8	98	3.9	7.23	10.68																	
5	0.135	58.15	55.8	170.1	163.1	0.115	1.53	97	1.5	2.3	99	2.2	7.18	10.6	1																
6	0.135										0.112															7.03	10.77				
7	0.171										0.154																				
8	0.121										0.103																				
9	0.131										0.112															7.27	10.51				
10	0.128										0.112															7.2	10.41				
11	0.13	100.95	94.3	186.35	174.1	0.112	2.52	98	2.4	2	99	1.9	7.38	10.71	1																
12	0.131	78	75.5	159.03	153.9	0.116	2.39	97	2.3	2.75	98	2.7	7.27	11.13	1																
13	0.131										0.114															7.2	11.1				
14	0.48										0.41																				
15	0.324										0.3																				
16	0.362										0.339															6.92	10.59				
17	0.325										0.321															7.12	11.8	1			
18	0.245	54.67	105.3	121.6	234.3	0.231	2.36	96	4.5	2	98	3.9	7.05	11.06	2																
19	0.213										0.196															7.1	11.19				
20	0.193	42.56	62.1	135.46	197.7	0.175	2.53	94	3.7	1.6	99	2.3	7.08	10.36																	
21	0.183										0.166																				
22	0.196										0.181																				
23	0.189										0.174															6.92	10.38				
24	0.238										0.22															7.3	10.43	1			
25	0.212	84.43	139.4	110.83	183.0	0.198	2.09	98	3.5	3.13	97	5.2	6.93	10.63	1																
** 26	0.394	6.83	19.9	82.27	240.1	0.35	2.41	65	7.0	1.8	98	5.3	6.93	10.64																	
27	0.38										0.398																6.89	11.06			
28	0.326										0.324																				
29	0.261										0.254																				
30	0.236										0.225															6.73	10.24				
31	0.212										0.2															7.31	11	1			
	AVG 0.220	AVG 62	AVG 78	AVG 141	AVG 189	AVG 0.202	AVG 2.31	AVG 93	AVG 3.4	AVG 2.4	AVG 98	AVG 3.4	MIN 6.73	MIN 10.24	MIN 1																
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91																
	AVG 0.48	AVG 101	AVG 139	AVG 186.4	AVG 240	AVG 0.41	AVG 2.46		AVG 5.3	AVG 3.1		AVG 5.3	AVG 7.38	AVG 11.8	AVG 1																
Limits	1.1						23		107	23		107	8.5		182																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GEM / =highest /-day Geometric Mean **** March 26: Other than Operator error we have no idea as to what caused these unusual Numbers**

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month March Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY		TEMPERATURE*													
					DEG C													
1																		
2					14													
3					14.2													
4	0.12		0.12		14.2													
5	0.24		0.23		14.2													
6					15.1													
7																		
8																		
9					14.7													
10					15.2													
11	0.23		0.21		15.4													
12	0.19		0.18		15.7													
13					15.2													
14																		
15																		
16					14.9													
17					13													
18	0.07		0.13		14.4													
19					14.2													
20	0.06		0.09		14.9													
21																		
22																		
23					14.9													
24					15													
25	0.08		0.13		15													
26	0.1		0.29		15.6													
27					14.4													
28																		
29																		
30					15.2													
31					15.6													
	^{AVI} 0.14		^{AVC} 0.17		^{AVG} 15													
Permit	1.0																	
	^{MXI} 0.24		^{MXI} 0.29		^{MAX} 16													
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month April Year 2015

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL											
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK		
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	PH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.204	54.84	88.7	107.97	174.7	0.194	1.9	97	3.1	2.51	98	4.1	7.1	11			
2	0.195	44.3	66.9	187.38	282.9	0.181	1.24	97	1.9	1.2	99	1.8	6.9	10.26	1		
3	0.218					0.203							7.1	10.6			
4	0.211					0.2											
5	0.172					0.156											
6	0.161					0.151							7.1	10.36			
7	0.155					0.146							8.0	10.47	1		
8	0.151	71.48	85.8	140.72	169.0	0.144	2.16	97	2.6	2.95	98	3.5	7.2	10.62			
9	0.146	82.04	94.4	120.32	138.5	0.138	1.8	98	2.1	1.67	99	1.9	7.2	10.31			
10	0.144					0.133							7.3	10.35	1		
11	0.188					0.181											
12	0.168					0.165											
13	0.169					0.163							7.1	10.61			
14	0.171					0.165							7.1	10.72	1		
15	0.165	45	60.4	133.69	179.5	0.161	2.08	95	2.8	4.4	97	5.9	7.0	10.63			
16	0.162	75.75	98.6	131.88	171.6	0.156	1.27	98	1.7	3.6	97	4.7	7.3	10.41			
17	0.151					0.148							7.5	10.55	1		
18	0.146					0.145											
19	0.138					0.136											
20	0.145					0.142							7.1	9.99			
21	0.136					0.135							7.3	10.16	1		
22	0.139	71.26	83.2	162.77	190.1	0.14	1.61	98	1.9	4.6	97	5.4	7.1	10.3			
23	0.13	97.63	105.9	145.69	158.0	0.13	2.25	98	2.4	2.34	98	2.5	7.3	10.81	1		
24	0.135					0.136							7.1	10.25			
25	0.188					0.184											
26	0.127					0.122											
27	0.131					0.125							7.4	10.34			
28	0.12					0.118							7.1	10.25	1		
29	0.12	90.11	90.2	148.63	148.7	0.12	1.41	98	1.4	3.69	98	3.7	7.1	10.1			
30	0.118	98.01	94.8	183.13	177.2	0.116	2.16	98	2.1	3.68	98	3.6	7.4	10.25	1		
31																	
	AVG 0.157	AVG 73	AVG 87	AVG 146	AVG 179	AVG 0.151	AVG 1.79	AVG 97	2.2	AVG 3.1	AVG 98	AVG 3.7	AVG 6.9	AVG 9.99	AVG 1		
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91		
	AVG 0.22	AVG 98	AVG 106	AVG 187.4	AVG 283	AVG 0.203	AVG 1.98		AVG 2.5	AVG 4		AVG ###	AVG 8.0	AVG 11.0	AVG 1		
Limits	1.1						23		107	23		107	8.5		182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month April Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C														
1	0.09	0.15	14														
2	0.13	0.2	15.22														
3			14														
4																	
5																	
6			14.88														
7			15.47														
8	0.23	0.28	15														
9	0.25	0.29	16.25														
10			15.42														
11																	
12																	
13			14														
14			15.28														
15	0.23	0.31	15														
16	0.28	0.36	15.88														
17			15														
18																	
19																	
20			17														
21			15.88														
22	0.15	0.18	16.32														
23	0.17	0.18	15.22														
24			15.98														
25																	
26																	
27			17.55														
28			17.12														
29	0.19	0.19	16.88														
30	0.17	0.16	17.39														
31																	
	^{AVI} 0.19	^{AVC} 0.23	^{AVG} 15.7														
Permit	1.0																
	^{MXI} 0.28	^{MXL} 0.36	^{MAX} 17.6														
Limits	2.0																

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title _____

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

 Month May Year 2015

 Facility Nar McCleary Wastewater Treatment Plant

 County Grays Harbor

 Receiving Water East Fork Wildcat Creek

 Plant Operator Kevin Trehwella

 Plant Typ SBR and UV Disinfection

 Population 1600

EFFLUENT - MAY THROUGH SEPTEMBER

Frequency	INFLUENT					EFFLUENT - MAY THROUGH SEPTEMBER											
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK		
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	PH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.128					0.125									7.4	10.16	
2	0.129					0.12											
3	0.117					0.116											
4	0.118					0.118									7.3	10.81	
5	0.162					0.167									7.3	10.02	1
6	0.125	102.67	107.0	191.36	199.5	0.125	2.15	98	2.2	4.79	97	5.0	6.9	10		1	
7	0.122	121.6	127.8	200.17	210.3	0.126	1.67	99	1.8	4	98	4.2	7.1	9.97			
8	0.114					0.116									6.9	9.71	
9	0.136					0.129											
10	0.11					0.094											
11	0.115					0.098									7.2	9.8	
12	0.125					0.103									7.4	9.87	1
13	0.124	92.31	78.5	102.86	87.5	0.102	3.7	96	3.1	3.44	97	2.9	7.4	9.91			
14	0.122	127.17	106.1	219.21	182.8	0.1	2.91	98	2.4	4.21	98	3.5	7.3	10.43		1	
15	0.146					0.124									7.3	10.18	
16	0.108					0.095											
17	0.114					0.092											
18	0.114					0.094									7.0	9.74	
19	0.161					0.142									7.3	10.03	1
20	0.11					0.093									7.3	9.6	1
21	0.108	100.8	73.1	99.81	72.4	0.087	2.01	98	1.5	2.65	97	1.9	7.4	9.67			
22	0.112	88.54	68.7	170.72	132.4	0.093	1.06	99	0.8	2.28	99	1.8	7.2	9.85			
23	0.159					0.145											
24	0.108					0.09											
25	0.11					0.092									7.5	9.9	
26	0.118					0.098									7.3	9.67	
27	0.115	98.44	79.6	182.26	147.4	0.097	1.61	98	1.3	2.08	99	1.7	7.4	10.2		1	
28	0.112	117.37	93.0	196.66	155.8	0.095	1.98	98	1.6	3.22	98	2.6	7.4	10			
29	0.166					0.147									7.3	9.47	1
30	0.115					0.103											
31	0.11					0.093											
	AVG 0.124	AVG 106	AVG 92	AVG 170	AVG 149	AVG 0.110	AVG 2.14	AVG 98	AVG 1.8	AVG 3.3	AVG 98	AVG 2.9	MIN 6.9	MAX 9.47	MIN 1		
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91		
	AVG 0.17	AVG 127	AVG 128	AVG 219.2	AVG 210	AVG 0.167	AVG 3.31		AVG 2.8	AVG 4.4		AVG 4.6	AVG 7.5	AVG 10.8	AVG 1		
Limits	1.1						23		107	23		107	8.5			182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month May Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT - MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA		TOTAL AMMONIA															
	MG/L		LBS/DAY															
1																		
2																		
3																		
4																		
5																		
6	0.21		0.22															
7	0.19		0.2															
8																		
9																		
10																		
11																		
12																		
13	0.32		0.27															
14	0.25		0.21															
15																		
16																		
17																		
18																		
19																		
20																		
21	0.16		0.12															
22	0.24		0.19															
23																		
24																		
25																		
26																		
27	0.23		0.24															
28	0.24		0.19															
29																		
30																		
31																		
	^{AVI} 0.23		^{AVC} 0.21															
Permit	1.0																	
	^{MXI} 0.32		^{MXC} 0.27															
Limits	2.0																	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month: June Year: 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																					
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML
1	0.115										0.098															7.5	9.47			
2	0.102										0.109															7.1	9.46	1		
3	0.154	85.29	83.22		162.9	158.9					0.117	1.65	98	1.6	2.4	99	2.3	7.3	11	1					7.3	9.23				
4	0.127	46	46.42		132.9	134.1					0.121	0.48	99	0.5	1.6	99	1.6	7.2	9.23						7.2	9.23				
5	0.145										0.128															7.2	9.31			
6	0.125										0.11																			
7	0.104										0.09																			
8	0.11										0.095															7.0	9.09			
9	0.101										0.092															7.9	9.35	1		
10	0.105	148.4	116.4		148.1	116.1					0.094	5.47	96	4.3	2.99	98	2.3	7.5	10.2						7.5	10.2				
11	0.1	84.88	61.59		146	105.9					0.087	3	96	2.2	2.4	98	1.7	7.2	9.11						7.2	9.11				
12	0.097										0.086															7.3	10	1		
13	0.145										0.133																			
14	0.1										0.089																			
15	0.103										0.091															7.0	9.03			
16	0.106										0.096															7.3	9.14	1		
17	0.101	137.5	104.3		186.4	141.5					0.091	2.39	98	1.8	2.4	99	1.8	7.2	9.33						7.2	9.33				
18	0.103	183.7	141		162.3	124.5					0.092	2.06	99	1.6	1.06	99	0.8	7.3	10.4	1					7.3	10.4	1			
19	0.095										0.085															7.4	9.2			
20	0.093										0.078																			
21	0.103										0.091																			
22	0.104										0.088															7.6	9.15			
23	0.105										0.092															7.7	9.18	1		
24	0.101	166.9	125.3		227.1	170.4					0.09	3.58	98	2.7	2.5	99	1.9	7.5	8.88						7.5	8.88				
25	0.107	145.5	114.1		212.1	166.3					0.094	1.71	99	1.3	1.05	100	0.8	7.4	9.09	1					7.4	9.09	1			
26	0.103										0.089															7.2	8.88			
27	0.139										0.126																			
28	0.094										0.082																			
29	0.11										0.099															7.5	8.72			
30	0.105										0.091															7.3	9.06	1		
31																														
	AVG	0.11	125	99	172	140					0.10	3	98	2	2.1	99	1.7								7.0	8.72	1.00			
Permit		0.57		742		1252						15	85	31	15	85	71	6.5	8.7	91										
	MAX	0.15	184	141	227	170					0.13	4.2		3.3	2.7		2	7.9	11.0	1.0										
Limits		1.1										23		47	23		107	8.5										182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

Gm/ =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella, Wastewater Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month June Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3	0.21	0.2													
4	0.27	0.27													
5															
6															
7															
8															
9															
10	0.32	0.25													
11	0.27	0.2													
12															
13															
14															
15															
16															
17	0.23	0.17													
18	0.26	0.2													
19															
20															
21															
22															
23															
24	0.08	0.06													
25	0.2	0.16													
26															
27															
28															
29															
30															
31															
	0.2	0.2													
Permit	1.0	4.32													
	0.3	0.3													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella, Wastewater MGR
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT					EFFLUENT - MAY THROUGH SEPTEMBER											
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK		
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY MG/L	LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN	MG/L	FECAL COLIFORM #/100 ML
1	0.104	162.4	119.2	260.5	191.2	0.088	6.7	96	4.9	3.2	99	2.3	7.5	8.9			
2	0.1	154.2	110.6	142.2	102.0	0.086	1.94	99	1.4	1.83	99	1.3	7.3	8.86			
3	0.145					0.131							7.4	8.91			
4	0.102					0.092											
5	0.092					0.08											
6	0.102					0.088							7.2	8.87			
7	0.107					0.094							7.3	8.8	1		
8	0.101	205.3	147.2	388.4	278.6	0.086	4.3	98	3.1	1.8	100	1.3	7.4	8.9			
9	0.102	144.3	108.3	229.3	172.1	0.09	1.06	99	0.8	1.86	99	1.4	7.3	8.9	1		
10	0.14					0.131							7.5	8.97			
11	0.134					0.122											
12	0.111					0.097											
13	0.117					0.103							7.3	8.88			
14	0.106					0.093							7.3	8.9	1		
15	0.105	215.4	167.1	319.3	247.7	0.093	1.96	99	1.5	6.02	98	4.7	7.6	9.2			
16	0.107	111.6	89.33	210.4	168.4	0.096	1.13	99	0.9	1.88	99	1.5	7.5	8.96	1		
17	0.104					0.09							7.0	8.9			
18	0.104					0.094											
19	0.102					0.095											
20	0.104					0.099							7.5	8.8			
21	0.106					0.098							7.3	8.82	1		
22	0.111	197.2	171	841.2	729.7	0.104	3.1	98	2.7	1.8	100	1.6	7.3	8.89			
23	0.106	259.8	214.5	400.4	330.6	0.099	1.69	99	1.4	2.12	99	1.8	7.2	11.8	1		
24	0.142					0.136							7.2	9.23			
25	0.143					0.137											
26	0.104					0.096											
27	0.112					0.104							7.4	9.28			
28	0.108					0.1							7.3	9.54	1		
29	0.105	188.4	155.5	283.8	234.3	0.099	1.72	99	1.4	6.2	98	5.1	7.2	9.2			
30	0.107	157.0	133.5	237.4	201.9	0.102	1.86	99	1.6	1.25	99	1.1	7.4	9.54	1		
31	0.104					0.099							7.2	9.05			
	AVG 0.11	AVG 180	AVG 142	AVG 331	AVG 266	AVG 0.10	AVG 2.5	AVG 99	AVG 2	AVG 2.8	AVG 99	AVG 2.2	MIN 7.0	MIN 8.80	GEM 1		
Permit	0.57		742		1252		15	85	31	15	85	71	6.5	8.7	91		
	MAX 0.15	MAX 260	MAX 214	MAX 841	MAX 730	MAX 0.137	MAX 4.32		MAX 3.15	MAX 3.95		MAX 3.1	MAX 7.6	MAX 11.8	MAX 1		
Limits	1.1						23		47	23		1.5	8.5		182		

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month July Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1	0.26	0.19													
2	0.21	0.15													
3															
4															
5															
6															
7															
8	0.16	0.11													
9	0.15	0.11													
10															
11															
12															
13															
14															
15	0.21	0.16													
16	0.2	0.16													
17															
18															
19															
20															
21															
22	0.2	0.17													
23	0.21	0.17													
24															
25															
26															
27															
28															
29	0.22	0.18													
30	0.2	0.17													
31															
	AVG	0.2	AVG	0.2											
Permit	1.0	4.32													
	AVG	0.3	AVG	0.2											
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average **AVW** =Highest Weekly Average **GEM**=Geometric Mean **MAX**=Maximum **MIN**=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month August Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	PERCENT REMOVAL	2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	PH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML		
1	0.140									0.135																					
2	0.099									0.095																					
3	0.113									0.106																7.2	10.1				
4	0.104									0.102																7.6	8.88		1		
5	0.108	124.3	104.7	260.6	219.5					0.101	2.61	98	2.2	1.25	100	1.1	7.2	9.09							7.2	9.09		1			
6	0.108	154.7	131.6	77.67	66.1					0.102	2.19	99	1.9	2.2	97	1.9	7.4	8.99							7.4	8.99					
7	0.109									0.106																7.3	8.73				
8	0.133									0.133																					
9	0.104									0.101																					
10	0.108									0.103																7.2	8.74				
11	0.107									0.103																7.4	8.98		1		
12	0.111	195.6	172.9	309.5	273.6					0.106	3.33	98	2.9	4.75	98	4.2	7.4	9.03							7.4	9.03					
13	0.112	102.4	93.93	215.7	197.9					0.110	2	98	1.8	3.03	99	2.8	7.0	8.94							7.0	8.94		12			
14	0.113									0.110																7.4	9.08				
15	0.160									0.167																					
16	0.108									0.107																					
17	0.106									0.104																7.2	8.75				
18	0.109									0.111																7.5	8.7		2		
*** 19	0.105			181.9	162.3					0.107				10.54	94	9.4	7.4	8.7								7.4	8.7				
20	0.108	65.1	59.72	170	156.0					0.110	3.81	94	3.5	5	97	4.6	7.2	8.74							7.2	8.74		1			
21	0.106									0.109																7.5	9.21				
22	0.103									0.107																					
23	0.104									0.108																					
24	0.109									0.110																7.3	9.01				
25	0.100									0.111																7.2	9.08		1		
26	0.108	76.1	71.72	254.9	240.2					0.113	1.77	98	1.7	3	99	2.8	7.1	8.53							7.1	8.53					
27	0.101	68.1	60.77	122.2	109.1					0.107	3.14	95	2.8	2.64	98	2.4	7.1	8.87							7.1	8.87		1			
28	0.101									0.108																7.1	8.77				
29	0.142									0.160																					
30	0.150									0.148																					
31	0.183									0.195																6.9	8.84				
	AVG 0.115	AVG 112	AVG 99	AVG 199	AVG 178	AVG 0.116	AVG 2.69	AVG 97	AVG 2.4	AVG 4.1	AVG 98	AVG 3.6	MIN 6.9	MIN 8.53	MIN 1																
Permit	0.57		742		1252		15	85	31	15	85	71	6.5	8.7	91																
	MAX 0.183	MAX 196	MAX 173	MAX 310	MAX 274	MAX 0.195	MAX 3.81	MAX 3.5	MAX 7.77	MAX 7	MAX 7.6	MAX 10.1	MAX 3																		
Limits	1.1						23		47	23		107	8.5		182																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / -ingest / -day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

*** Aug. 19 we apparently got hit by something, you will see how dramatically our effluent SS went up

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month August Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3															
4															
5	0.22	0.21													
6	0.15	0.13													
7															
8															
9															
10															
11															
12	0.25	0.22													
13	0.28	0.26													
14															
15															
16															
17															
18															
19	0.3	0.27													
20	0.46	0.42													
21															
22															
23															
24															
25															
26	0.14	0.13													
27	0.43	0.36													
28															
29															
30															
31															
	AVG	0.3	0.3												
Permit	1.0	4.32													
	GM7	0.5	0.4												
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month September Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

Frequency	INFLUENT								EFFLUENT - MAY THROUGH SEPTEMBER																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK																
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML	
1	0.146										0.155															7.1	8.98				
2	0.157										0.158																7.5	8.8			
*** 3	0.147	27.2	34.25		159	200.2					0.151	4.15		85	5.2		2.6		98	3.3						7.2	8.97		4		
4	0.134	52.25	59.7		255.1	291.4					0.137	0.67		99	0.8		3.83		98	4.4						7.2	8.82				
5	0.15										0.153																				
6	0.13										0.131																				
7	0.13										0.13																7.1	9			
8	0.139										0.143																7.1	9.22			
9	0.128										0.133																7.1	8.96		5	
10	0.119	64.48	66.14		179.2	183.8					0.123	5.78		91	5.9		3.2		98	3.3						7.4	8.99				
11	0.11	181.8	175.8		181.7	175.8					0.116	3.86		98	3.7		5.2		97	5.0						7.4	8.84		1		
12	0.111										0.114																				
13	0.11										0.115																				
14	0.118										0.123																7.4	8.68			
15	0.117										0.119																7.5	9.08			
16	0.118	126.0	122.9		198.9	194.1					0.117	4.85		96	4.7		5.4		97	5.3						7.3	9		1		
17	0.117	113.3	108.7		248.1	237.9					0.115	0.7		99	0.7		3.4		99	3.3						7.1	8.74				
18	0.131										0.129																7.3	8.92		1	
19	0.124										0.118																				
20	0.117										0.115																				
21	0.13										0.129																7.2	8.98			
22	0.127										0.122																7.1	8.82		1	
** 23	0.124	152.5	151.3		413.3	410.1					0.119	3.1		98	3.1		3.94		99	3.9						7.2	8.93				
24	0.118	163.5	150		154.2	141.5					0.11	4.17		97	3.8		2.97		98	2.7						7.5	9.02				
25	0.12										0.113																7.4	8.9		1	
26	0.119										0.114																				
27	0.115										0.11																				
28	0.124										0.118																7.3	8.92			
29	0.122										0.116																7.3	8.91		2	
30	0.116	69.9	63.55		166.6	151.5					0.109	1.65		98	1.5		2.48		99	2.3						7.3	8.9				
31																															
	AVG	0.126	106	104	217	221					AVG	0.125	3.21	96	3.3		3.7		AVG	98	3.7					MIN	7.1	MIN	8.68	PER	2
Permit		0.57		742		1252							15	85	31	15			85	71						6.5	8.7		91		
	MAX	0.157	182	176	413	410					MAX	0.158	4.82		4.8	4.4			MAX	4.3	MAX	7.5	MAX	9.2	PER		MAX	9.2	PER	4	
Limits		1.1											23		47	23										107	8.5			182	

Please Circle ALL Permit Violations Mail to P.O. Box 4775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GEM / =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Plant Manager

Name and Title

Signature

*** September 3 had very little influent DO reduction. Spoke with Carl Jones. Investigating ways to cure problem

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month September Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator: Kevin Trewhella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT CONT. MAY THROUGH SEPTEMBER

Frequency	2/WEEK	2/WEEK													
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY													
1															
2															
3	0.4	0.5													
4	0.4	0.46													
5															
6															
7															
8															
9															
10	0.67	0.69													
11	0.67	0.65													
12															
13															
14															
15															
16	0.4	0.39													
17	0.48	0.46													
18															
19															
20															
21															
22															
23	0.53	0.53													
24	0.41	0.38													
25															
26															
27															
28															
29															
30	0.35	0.32													
31															
	^{AVG} 0.48	^{AVG} 0.49													
Permit	1.0	4.32													
	^{AVG} 0.67	^{AVG} 0.69													
Limits	2.0														

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Plant Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

 Month **October** Year **2015**

 Facility **Nar McCleary Wastewater Treatment Plant**

 County **Grays Harbor**

 Receiving Water **East Fork Wildcat Creek**

 Plant Operator **Kevin Trehwella**

 Plant Typ **SBR and UV Disinfection**

 Population **1600**

Frequency	INFLUENT					EFFLUENT - OCTOBER THROUGH APRIL										
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK		2/WEEK	2/WEEK		2/WEEK	5/WEEK	5/WEEK	2/WEEK	
Date	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY LBS/DAY	TSS MG/L	TSS LBS/DAY	FLOW MGD	BOD 5-DAY MG/L	BOD 5-DAY PERCENT REMOVAL	BOD 5-DAY LBS/DAY	TSS MG/L	TSS PERCENT REMOVAL	TSS LBS/DAY	pH	STANDARD UNITS DISSOLVED OXYGEN	MG/L FECAL COLIFORM	#/100 ML
1	0.122	99.95	96.7	179.31	173.5	0.116	3.09	97	3.0	2.6	99	2.5	7.29	8.82		
2	0.109					0.096							7.24	8.9	1	
3	0.129					0.134										
4	0.111					0.095										
5	0.114					0.098							7.11	8.81		
6	0.117					0.101							7.32	9.03	2	
7	0.112	78.63	62.3	233.01	184.6	0.095	2.57	97	2.0	2.8	99	2.2	7.37	9.06	2	
8	0.123	86.25	77.0	207.67	185.3	0.107	2.07	98	1.8	3.82	98	3.4	7.18	8.9		
9	0.119					0.103							7.24	9.06		
10	0.164					0.148										
11	0.178					0.161										
12	0.17					0.152							7.12	9.26		
13	0.145					0.131							7.36	9	1	
14	0.128	130.65	120.9	186.24	172.4	0.111	5.93	95	5.5	1.91	99	1.8	7.3	11.23		
15	0.137	102.21	99.7	164.93	160.9	0.117	1.14	99	1.1	1.05	99	1.0	7.31	10		
16	0.143					0.128							7.32	9.16	1	
17	0.17					0.154										
18	0.137					0.119										
19	0.143					0.126							7.27	9.36		
20	0.142					0.125							7.37	9.17	1	
21	0.135	151.79	150.6	235.68	233.9	0.119	3.02	98	3.0	1.24	99	1.2	7.3	9.08	1	
22	0.134	158.54	154.7	202.56	197.7	0.117	0.49	100	0.5	0.85	100	0.8	7.31	10.26		
23	0.134					0.114							7.29	9.18		
24	0.154					0.139										
25	0.114					0.1										
26	0.127					0.109							7.13	8.93		
27	0.176					0.154							7.18	10.12	1	
28	0.166	223.63	276.0	170	209.8	0.148	2.06	99	2.5	1.2	99	1.5	7.35	9.96	1	
29	0.149	201.82	217.1	198.44	213.5	0.129	2.61	99	2.8	1.06	99	1.1	7.41	10.02		
30	0.182					0.161							6.85	9.79		
31	0.324					0.295										
	AVG 0.145	AVG 137	AVG 139	AVG 198	AVG 192	AVG 0.129	AVG 2.55	AVG 98	AVG 2.5	AVG 1.8	AVG 99	AVG 1.7	MIN 6.85	MIN 8.81	MIN 1	
Permit	0.57		742		1252		15	85	71	15	85	71	6.5	8.0	91	
	MAX 0.32	MAX 224	MAX 276	MAX 235.7	MAX 234	MAX 0.295	MAX 3.55		MAX 3.3	MAX 3.31		MAX 2.8	MAX 7.4	MAX 11.2	MAX 1	
Limits	1.1						23		107	23		107	8.5		182	

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GIM /=-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager

Name and Title

Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month October Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trewhella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK															
Date	TOTAL AMMONIA MG/L	TOTAL AMMONIA LBS/DAY	TEMPERATURE* DEG C															
1	0.22	0.21	17															
2			17															
3			19.7															
4																		
5			20.1															
6			17.7															
7	0.46	0.36	18.7															
8	0.29	0.26	19															
9			19															
10																		
11																		
12			18.9															
13			19.3															
14	0.24	0.22	18															
15	0.19	0.19	18.2															
16			17.7															
17																		
18																		
19			18.6															
20			18.5															
21	0.16	0.16	18.6															
22	0.11	0.11	17.2															
23			17.7															
24																		
25																		
26			17.7															
27			17.5															
28	0.18	0.22	16.9															
29	0.09	0.1	18.1															
30			18															
31																		
	AVG 0.22	AVG 0.20	AVG 18															
Permit	1.0																	
	MAX 0.46	MAX 0.36	MAX 20															
Limits	2.0																	

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trewhella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No WA0024040

Month November Year 2015

Facility Nar McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Typ SBR and UV Disinfection

Population 1600

Frequency	INFLUENT										EFFLUENT - OCTOBER THROUGH APRIL																						
	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	CONT	2/WEEK	2/WEEK	2/WEEK	2/WEEK	2/WEEK	5/WEEK	5/WEEK	2/WEEK														
Date	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	LBS/DAY	FLOW	MGD	BOD 5-DAY	MG/L	BOD 5-DAY	PERCENT REMOVAL	BOD 5-DAY	LBS/DAY	TSS	MG/L	TSS	PERCENT REMOVAL	TSS	LBS/DAY	pH	STANDARD UNITS	DISSOLVED OXYGEN	MG/L	FECAL COLIFORM	#/100 ML			
1	0.604										0.572																						
2	0.54										0.542														7	9.58							
3	0.361										0.361														7	10.39		1					
4	0.262	156.78	325.6	167.5	347.8	0.249	2.07	99	4.3	3.8	98	7.9	6.95	10.26																			
5	0.219	94.46	156.8	134.95	224.0	0.199	3.81	96	6.3	1.8	99	3.0	7.01	10.4	1																		
6	0.193										0.17														7.05	10.26							
7	0.186										0.165																						
8	0.18										0.151																						
9	0.204										0.177														7.28	10.21							
10	0.244										0.218														7.3	10.46		2					
11	0.173										0.15														7.22	10.31							
12	0.191	376.5	521.2	323.11	447.3	0.166	1.97	99	2.7	1.02	100	1.4	7.81	10.46	1																		
13	0.211	105.75	149.9	117.86	167.1	0.17	2.17	98	3.1	2.54	98	3.6	7.12	10.22																			
14	0.648										0.601																10.55						
15	0.858										0.83																10.46						
16	0.777										0.816														7	10.55							
17	0.478										0.466														7.03	10.46		1					
18	0.851										0.881															6.83	11.03						
19	0.716	21.98	139.7	44.69	284.0	0.762	1.66	92	10.5	1.63	96	10.4	6.97	10.74																			
20	0.435	22.65	83.1	78.21	287.0	0.44	1.47	94	5.4	1.6	98	5.9	6.92	10.9	12																		
21	0.341										0.328																						
22	0.279										0.256																						
23	0.26										0.231															7.41	11.11						
24	0.272										0.24															7.23	10.83		2				
25	0.246	91.25	158.3	81.52	141.4	0.208	0.57	99	1.0	2.02	98	3.5	7.2	11	1																		
26	0.258	123.69	234.2	83.29	157.7	0.227	1.34	99	2.5	1.42	98	2.7	7.2	11.16																			
27	0.223										0.191																7.1	10.91					
28	0.209										0.175																	11.02					
29	0.2										0.168																						
30	0.204										0.173																7.2	11.02					
31																																	
	AVG	0.361	AVG	124	AVG	221	AVG	129	AVG	257	AVG	0.343	AVG	1.88	AVG	97	AVG	4.5	AVG	2.0	AVG	98	AVG	4.8	MIN	6.83	MIN	9.58	WEB	2			
Permit	0.57																																
	AVG	0.86	AVG	377	AVG	521	AVG	323.1	AVG	447	AVG	0.881	AVG	2.94	AVG	8	AVG	2.8	AVG	2.8	AVG	8.2	AVG	8.2	MAX	7.8	MAX	11.2	AVG	2			
Limits	1.1																																

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775
 AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum
 GMI =highest /-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature

WASTEWATER TREATMENT PLANT MONITORING REPORT

Permit No. WA0024040

Month November Year 2015

Facility Name McCleary Wastewater Treatment Plant

County Grays Harbor

Receiving Water East Fork Wildcat Creek

Plant Operator Kevin Trehwella

Plant Type SBR and UV Disinfection

Population 1600

EFFLUENT OCTOBER THROUGH APRIL

Frequency	2/WEEK	2/WEEK	5/WEEK														
Date	TOTAL AMMONIA		TOTAL AMMONIA														
	MG/L		LBS/DAY		TEMPERATURE*												
					DEG C												
1																	
2					17												
3					16.4												
4	0.09		0.19		16												
5	0.15		0.25		16.2												
6					16.7												
7																	
8																	
9					16.4												
10					16.3												
11					16.2												
12	0.21		0.29		15.7												
13	0.1		0.14		16												
14																	
15																	
16					14.4												
17					15												
18					14												
19	0.08		0.51		14.5												
20	0.14		0.51		14.2												
21																	
22																	
23					13												
24					14												
25	0.12		0.21		13												
26	0.19		0.36		13												
27					13.2												
28																	
29																	
30					12.9												
31																	
	AVG	0.14	AVG	0.31	AVG	15											
Permit		1.0															
	MAX	0.21	MAX	0.51	MAX	17											
Limits		2.0															

***OCTOBER THROUGH APRIL ONLY**

Please Circle ALL Permit Violations Mail to P.O. Box 47775, Olympia WA 98504-7775

AVG=Average AVW =Highest Weekly Average GEM=Geometric Mean MAX=Maximum MIN=Minimum

GM7=highest 7-day Geometric Mean

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kevin Trehwella WWTP Manager
 Name and Title

 Signature



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia		Temperature
		Total suspended (TSS) Lbs/Day 2/Week Calculated	Standard Units 5/Week Grab				Milligrams/L (mg/L) 5/Week Grab	#/100ml 2/Week Grab	
		001	001	001	001	001	001	001	001
1-T	12/1/15		7.5	11.11					13.66
1-W	12/2/15	5.33	7.36	10.98			.17	.27	14.1
1-Th	12/3/15	4.34	7.34	10.91	1		.14	.25	14.3
1-F	12/4/15		7.12	10.93	1				14.1
1-Sa	12/5/15								
2-Su	12/6/15								
2-M	12/7/15		7.2	11.1					14.2
2-T	12/8/15		6.94	10.94	3				14.2
2-W	12/9/15	25.96	6.73	11.1			.07	.40	13.2
2-Th	12/10/15	24.66	6.92	11.22			.1	.63	13.88
2-F	12/11/15		7.12	11.12	6				13.0
2-Sa	12/12/15								
3-Su	12/13/15								
3-M	12/14/15		7.1	11.08					13.0
3-T	12/15/15		7.11	11.25	1				13.2
3-W	12/16/15	15.10	7.17	11.36			.12	.28	13.0
3-Th	12/17/15	5.87	7.11	10.99	1		.15	.32	13.0
3-F	12/18/15		6.86	11.17					13.0
3-Sa	12/19/15								
4-Su	12/20/15								
4-M	12/21/15		6.83	11.04					12.2
4-T	12/22/15		6.71	10.98	3				12.3
4-W	12/23/15	12.54	6.91	11.33			.14	.48	12.0
4-Th	12/24/15	17.22	6.87	11.29	2		.13	.52	11.7
4-F	12/25/15		6.9	10.98					11.30
4-Sa	12/26/15								
5-Su	12/27/15								
5-M	12/28/15		7.01	11.52					12.0
5-T	12/29/15		7.0	11.38				.46	12.2
5-W	12/30/15	6.25	7.3	11.71	1		.2	.20	12.0
5-Th	12/31/15	10.78	7.45	11.93	1		.1		11.5
Minimum			6.71	10.91					
			>= 6.5	>= 8					
Average		12.805					0.132	0.381	12.9148
		<= 71					<= 1	Report Only	Report Only
Weekly Average		25.31							
		<= 107							
Maximum			7.5	11.93					14.3
			<= 8.5	Report Only					Report Only
Daily Maximum							0.2	0.63	
							<= 2	Report Only	
Monthly geometric mean						1.59714			
						<= 91			



Weekly Geometric Mean											

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella

1/7/2016 11:21:06 AM

Signature

Date



Weekly Geometric Mean				4.24264			
				<= 182			



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia		Temperature
		Total suspended (TSS) Lbs/Day 2/Week Calculated	Standard Units 5/Week Grab				Milligrams/L (mg/L) 5/Week Grab	#/100ml 2/Week Grab	
		001	001	001	001	001	001	001	001
1-F	1/1/16		7.30	11.17					11.0
1-Sa	1/2/16								
2-Su	1/3/16								
2-M	1/4/16		7.12	11.38					11.8
2-T	1/5/16		7.31	11.47	1				11.88
2-W	1/6/16	4.59	6.99	10.86			.21	.29	12.0
2-Th	1/7/16	4.18	7.12	11.40	1		.09	.16	12.5
2-F	1/8/16		7.24	11.62					12.0
2-Sa	1/9/16								
3-Su	1/10/16								
3-M	1/11/16		6.92	10.95					12.3
3-T	1/12/16		7.23	11.40	1				12.7
3-W	1/13/16		7.0	11.22					11.9
3-Th	1/14/16	4.31	7.32	11.85	1		.19	.44	12.5
3-F	1/15/16	3.27	7.13	11.52			.25	.41	12.5
3-Sa	1/16/16								
4-Su	1/17/16								
4-M	1/18/16		7.16	11.53					11.0
4-T	1/19/16		7.18	11.48					12.2
4-W	1/20/16	7.4	7.22	11.56	3		.07	.15	12.1
4-Th	1/21/16	9.14	6.97	11.37			.14	.30	12.4
4-F	1/22/16		6.82	11.26	1				11.9
4-Sa	1/23/16								
5-Su	1/24/16								
5-M	1/25/16		6.95	11.61					11.8
5-T	1/26/16		7.45	11.65	1				12.6
5-W	1/27/16	13.26	7.25	11.47	1		.17	.35	13.0
5-Th	1/28/16	9.81	6.94	11.46			.14	.28	13.1
5-F	1/29/16		7.11	11.3					13.0
5-Sa	1/30/16								
6-Su	1/31/16								
Minimum			6.82	10.86					
			>= 6.5	>= 8					
Average		7.00					.16	.3	12.2
		<= 71					<= 1	Report Only	Report Only
Weekly Average		11.54							
		<= 107							
Maximum			7.32	11.65					13.1
			<= 8.5	Report Only					Report Only
Daily Maximum							.25	.44	
							<= 2	Report Only	
Monthly geometric mean					1.1472				
					<= 91				



Weekly Geometric Mean											
-----------------------	--	--	--	--	--	--	--	--	--	--	--

Outfall: 001 - East Fork Wildcat Creek

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
INF	Biochemical Oxygen Demand (BOD5) Total Milligrams/L (mg/L)	1/6/2016	0	WE UNDERESTIMATED STRENGTH OF SEED. CARL JONES NOTIFIED. WILL SEND BOD BENCH SHEET TO PROVE THAT WE DID THE WORK.WE UNDERESTIMATED STRENGTH OF SEED.
INF	Biochemical Oxygen Demand (BOD5) Total Milligrams/L (mg/L)	1/7/2016	0	WE UNDERESTIMATED STRENGTH OF SEED. CARL JONES NOTIFIED. WILL SEND BOD BENCH SHEET TO PROVE THAT WE DID THE WORK.
001	Biochemical Oxygen Demand (BOD5) Total Milligrams/L (mg/L)	1/6/2016	0	WE UNDERESTIMATED STRENGTH OF SEED. CARL JONES NOTIFIED. WILL SEND BOD BENCH SHEET TO PROVE THAT WE DID THE WORK.
001	Biochemical Oxygen Demand (BOD5) Total Milligrams/L (mg/L)	1/7/2016	0	WE UNDERESTIMATED STRENGTH OF SEED. CARL JONES NOTIFIED. WILL SEND BOD BENCH SHEET TO PROVE THAT WE DID THE WORK.

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella

2/4/2016 10:44:09 AM

Signature

Date



Weekly Geometric Mean				1.73205			
				<= 182			



Week	Monitoring Point	Solids (Residue)	pH	Dissolved Oxygen	Fecal Coliform	Ammonia	Temperature	
		Total suspended (TSS) Lbs/Day 2/Week Calculated						Standard Units 5/Week Grab
		001	001	001	001	001	001	
1-M	2/1/16		7.15	11.28			12.3	
1-T	2/2/16		7.27	11.67	5		12.4	
1-W	2/3/16	10.45	7.12	11.48		.13	.26	12.2
1-Th	2/4/16	4.0	7.25	11.67	1	.19	.38	12.4
1-F	2/5/16		7.1	11.67				12.3
1-Sa	2/6/16							
2-Su	2/7/16							
2-M	2/8/16		7.21	11.66				13.0
2-T	2/9/16		6.94	10.74	1			13.0
2-W	2/10/16		6.81	11.06	1			13.2
2-Th	2/11/16	5.45	7.02	11.36		.11	.17	13.2
2-F	2/12/16	3.68	7.10	11.28		.09	.14	13.4
2-Sa	2/13/16							
3-Su	2/14/16							
3-M	2/15/16		7.00	11.00				12.8
3-T	2/16/16		6.94	11.29				13.66
3-W	2/17/16	12.01	7.16	11.11	1	.06	.20	13.0
3-Th	2/18/16	6.79	6.81	10.98		.10	.26	13.1
3-F	2/19/16		7.03	11.13	1			12.8
3-Sa	2/20/16							
4-Su	2/21/16							
4-M	2/22/16		7.24	11.67				12.4
4-T	2/23/16		7.03	11.37	1			12.6
4-W	2/24/16	2.05	6.98	11.52		.11	.20	12.7
4-Th	2/25/16	2.87	7.25	11.48	1	.09	.14	12.7
4-F	2/26/16		6.85	11.06				13.4
4-Sa	2/27/16							
5-Su	2/28/16							
5-M	2/29/16		6.91					13.5
Minimum			6.81	10.74				
			>= 6.5	>= 8				
Average		5.9125				0.11	0.21875	12.86
		<= 71				<= 1	Report Only	Report Only
Weekly Average		9.40						
		<= 107						
Maximum			7.27	11.67				13.66
			<= 8.5	Report Only				Report Only
Daily Maximum						0.19	0.38	
						<= 2	Report Only	
Monthly geometric mean					1.22284			
					<= 91			
Weekly Geometric Mean					1			
					<= 182			



I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehella

Signature

3/9/2016 1:14:49 PM

Date



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia		Temperature	
		Total suspended (TSS)	Calculated				Standard Units	Milligrams/L (mg/L)		Total
		Lbs/Day	2/Week	5/Week	5/Week	#/100ml	2/Week	Lbs/Day	2/Week	5/Week
		001	001	001	001	001	001	001	001	001
1-T	3/1/16			6.94	11.02	1				13.3
1-W	3/2/16	10.06		6.78	11.56	1	.21	.53		13.
1-Th	3/3/16	7.41		6.73	11.15		.13	.45		13.6
1-F	3/4/16			6.74	11.27					12.5
1-Sa	3/5/16									
2-Su	3/6/16									
2-M	3/7/16			7.21	11.28					12.8
2-T	3/8/16			7.16	11.53	1				12.9
2-W	3/9/16	9.08		6.96	11.25		.22	.62		12.6
2-Th	3/10/16	12.05		6.99	11.25	1	.05	.15		12.5
2-F	3/11/16			6.99	11.34					12.66
2-Sa	3/12/16									
3-Su	3/13/16									
3-M	3/14/16			7.09	11.24					12.88
3-T	3/15/16			6.96	11.4	1				12.1
3-W	3/16/16	9.05		6.77	11.52		.19	.61		11.8
3-Th	3/17/16	6.51		6.78	11.59	1	.2	.51		13.66
3-F	3/18/16			7.21	11.31					13.22
3-Sa	3/19/16									
4-Su	3/20/16									
4-M	3/21/16			7.06	11.05					14.
4-T	3/22/16			7.25	11.2	1				13.5
4-W	3/23/16	6.45		7.12	11.24		.13	.24		13.3
4-Th	3/24/16			7.08	11.16	1				12.88
4-F	3/25/16	2.99		7.02	11.38		.17	.34		13.8
4-Sa	3/26/16									
5-Su	3/27/16									
5-M	3/28/16			7.12	11.34					12.8
5-T	3/29/16			7.1	11.35	1				12.6
5-W	3/30/16	12.47		7.22	11.09		.27	.49		15.
5-Th	3/31/16	1.38		7.41	11.1	1	.14	.14		14.6
Minimum				6.73	11.02					
				>= 6.5	>= 8					
Average		7.745					.171	.408		13.1304
		<= 71					<= 1	Report Only	Report Only	
Weekly Average		10.565								
		<= 107								
Maximum				7.41	11.59					15
				<= 8.5	Report Only					Report Only
Daily Maximum							0.27	0.62		
							<= 2	Report Only		
Monthly geometric mean						1				
						<= 91				



Weekly Geometric Mean											

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella

4/6/2016 12:46:09 PM

Signature

Date



Weekly Geometric Mean				1			
				<= 182			



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia	Temperature
		Total suspended (TSS) Lbs/Day 2/Week Calculated	Standard Units 5/Week Grab					
		001	001	001	001	001	001	001
1-F	4/1/16		7.59	11.11				14.6
1-Sa	4/2/16							
2-Su	4/3/16							
2-M	4/4/16		7.2	10.99				15.0
2-T	4/5/16		7.21	11.16	1			14.2
2-W	4/6/16	6.18	7.4	11.36		.08	.11	13.8
2-Th	4/7/16	6.21	7.34	10.80	1	.12	.15	13.5
2-F	4/8/16		7.2	10.74				15.8
2-Sa	4/9/16							
3-Su	4/10/16							
3-M	4/11/16		7.43	10.86				14.9
3-T	4/12/16		7.4	10.90	1			14.66
3-W	4/13/16	7.55	7.39	10.66		.28	.31	15.0
3-Th	4/14/16	2.13	7.26	10.60	2	.17	.19	15.0
3-F	4/15/16		7.26	10.61				15.65
3-Sa	4/16/16							
4-Su	4/17/16							
4-M	4/18/16		7.49	10.39				19.0
4-T	4/19/16		7.38	10.39	2			18.0
4-W	4/20/16	4.92	7.61	10.16		.20	.19	17.0
4-Th	4/21/16	2.58	7.28	10.22	22	.25	.24	17.4
4-F	4/22/16		7.41	10.18				16.4
4-Sa	4/23/16							
5-Su	4/24/16							
5-M	4/25/16		7.56	10.67				16.3
5-T	4/26/16		7.27	10.41				16.6
5-W	4/27/16	7.71	7.3	10.38		.21	.23	16.88
5-Th	4/28/16	5.85	7.42	10.60	1	.44	.58	16.4
5-F	4/29/16		7.31	10.59	1			16.1
5-Sa	4/30/16							
Minimum			7.2	10.16				
			>= 6.5	>= 8				
Average		5.39125				0.21875	0.25	15.8186
		<= 71				<= 1	Report Only	Report Only
Weekly Average		6.195						
		<= 107						
Maximum			7.61	11.36				19
			<= 8.5	Report Only				Report Only
Daily Maximum						0.44	0.58	
						<= 2	Report Only	
Monthly geometric mean					1.75009			
					<= 91			
Weekly Geometric Mean					6.63325			
					<= 182			



I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehella

Signature

5/11/2016 12:24:00 PM

Date



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia
		Total suspended (TSS) Lbs/Day 2/Week Calculated	Standard Units 5/Week Grab				
		001	001		001	001	001
1-Su	5/1/16						
1-M	5/2/16		7.69	10.45			
1-T	5/3/16		7.08	10.13	1		
1-W	5/4/16	7.56	7.64	10.38		.21	.29
1-Th	5/5/16	6.24	7.29	10.17	1	.2	.22
1-F	5/6/16		7.35	10.27			
1-Sa	5/7/16						
2-Su	5/8/16						
2-M	5/9/16		7.64	10.13			
2-T	5/10/16		7.4	10.02	1		
2-W	5/11/16	5.27	7.41	10.08		.2	.25
2-Th	5/12/16	1.68	7.24	9.9		.18	.15
2-F	5/13/16		7.62	10.28	1		
2-Sa	5/14/16						
3-Su	5/15/16						
3-M	5/16/16		7.27	10.27			
3-T	5/17/16		7.47	9.91			
3-W	5/18/16	2.89	7.43	10.07	1	.24	.26
3-Th	5/19/16	1.8	7.26	9.92		.17	.15
3-F	5/20/16		7.2	9.98	1		
3-Sa	5/21/16						
4-Su	5/22/16						
4-M	5/23/16		7.4	10.13			
4-T	5/24/16		7.29	9.96	1	.2	.18
4-W	5/25/16		7.32	10.02			
4-Th	5/26/16	.37	7.26	10.09	1	.23	.20
4-F	5/27/16	1.31	7.10	10.11			
4-Sa	5/28/16						
5-Su	5/29/16						
5-M	5/30/16		7.49	10.34			
5-T	5/31/16		7.57	10.00			
Minimum			7.08	9.9			
			>= 6.5	>= 8.7			
Average		3.39				.2038	.2125
		<= 71				<= 1	<= 4.32
Weekly Average		6.90					
		<= 107					
Maximum			7.69	10.45			
			<= 8.5	Report Only			
Daily Maximum						0.24	0.29
						<= 2	Report Only
Monthly geometric mean					1		
					<= 91		
Weekly Geometric Mean					1		
					<= 182		



I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehella

6/13/2016 2:28:03 PM

Signature

Date



Week	Monitoring Point	Solids (Residue)		Dissolved Oxygen	Fecal Coliform	Ammonia	
		Total suspended (TSS) Lbs/Day 2/Week Calculated	pH Standard Units 5/Week Grab			Total Milligrams/L (mg/L) 2/Week Composite sample (24 hour)	Total Lbs/Day 2/Week Composite sample (24 hour)
	001	001	001	001	001	001	001
1-W	6/1/16	3.51	7.53	10.07	1	.29	.26
1-Th	6/2/16	3.25	7.48	10.02	1	.31	.36
1-F	6/3/16		7.08	10.02			
1-Sa	6/4/16						
2-Su	6/5/16						
2-M	6/6/16		7.15	9.77			
2-T	6/7/16		7.42	9.86	1		
2-W	6/8/16	3.87	7.48	10.03		.10	.10
2-Th	6/9/16	2.04	7.61	10.01	1	.17	.17
2-F	6/10/16		7.64	10.11			
2-Sa	6/11/16						
3-Su	6/12/16						
3-M	6/13/16		7.45	10.04			
3-T	6/14/16		7.46	9.87	1		
3-W	6/15/16	2.97	7.26	9.87		.13	.12
3-Th	6/16/16	1.63	7.18	9.95	1	.16	.15
3-F	6/17/16		7.08	9.98			
3-Sa	6/18/16						
4-Su	6/19/16						
4-M	6/20/16		7.35	9.98			
4-T	6/21/16		7.55	10.12	1		
4-W	6/22/16	2.98	7.52	10.00		.15	.14
4-Th	6/23/16	.54	7.39	9.97	1	.13	.11
4-F	6/24/16		7.09	9.92			
4-Sa	6/25/16						
5-Su	6/26/16						
5-M	6/27/16		7.58	10.10			
5-T	6/28/16		7.53	10.12	1		
5-W	6/29/16		7.32	10.02			
5-Th	6/30/16	1.83	7.23	9.96	1	.03	.03
Minimum			7.08 >= 6.5	9.77 >= 8.7			
Average		2.51333 <= 71				0.163333 <= 1	0.16 <= 4.32
Weekly Average		3.38 <= 107					
Maximum			7.64 <= 8.5	10.12 Report Only			
Daily Maximum						0.31 <= 2	0.36 Report Only
Monthly geometric mean					1 <= 91		
Weekly Geometric Mean					1 <= 182		



I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehella

7/12/2016 8:35:28 AM

Signature

Date



Week	Monitoring Point	Solids (Residue)		pH	Dissolved Oxygen	Fecal Coliform	Ammonia	
		Total suspended (TSS) Lbs./Day 2/Week Calculated	Standard Units 5/Week Grab				Milligrams/L (mg/L) 5/Week Grab	Milligrams/L (mg/L) 2/Week Composite sample (24 hour)
		001	001				001	001
1-F	7/1/16	1.66	7.15		9.94		.22	.28
1-Sa	7/2/16							
2-Su	7/3/16							
2-M	7/4/16		7.06		10.04			
2-T	7/5/16		7.61		10.07			
2-W	7/6/16	3.96	7.56		10.06	1	.11	.12
2-Th	7/7/16	3.65	7.73		9.98		.10	.10
2-F	7/8/16		7.50		9.91	1		
2-Sa	7/9/16							
3-Su	7/10/16							
3-M	7/11/16		7.42		9.93			
3-T	7/12/16		7.55		9.98	2		
3-W	7/13/16	4.67	7.52		10.06		.15	.14
3-Th	7/14/16	3.06	7.67		10.10		.18	.12
3-F	7/15/16		7.78		10.09	1		
3-Sa	7/16/16							
4-Su	7/17/16							
4-M	7/18/16		7.54		10.02			
4-T	7/19/16		7.52		10.00	3		
4-W	7/20/16	2.93	7.48		10.00	1	.21	.17
4-Th	7/21/16	1.93	7.45		10.08		.14	.12
4-F	7/22/16		7.42		10.00			
4-Sa	7/23/16							
5-Su	7/24/16							
5-M	7/25/16		7.06		9.93			
5-T	7/26/16		7.76		10.02	1		
5-W	7/27/16	1.97	7.45		10.22		.10	.18
5-Th	7/28/16	.92	7.2		9.97	14	.15	.11
5-F	7/29/16		7.48		10.04			
5-Sa	7/30/16							
6-Su	7/31/16							
Minimum			7.06		9.91			
			>= 6.5		>= 8.7			
Average		2.75					0.151111	0.148889
		<= 71					<= 1	<= 4.32
Weekly Average		3.865						
		<= 107						
Maximum			7.78		10.22			
			<= 8.5		Report Only			
Daily Maximum							0.22	0.28
							<= 2	Report Only
Monthly geometric mean						1.73994		
						<= 91		
Weekly Geometric Mean						3.74166		
						<= 182		



I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehella

8/5/2016 12:15:44 PM

Signature

Date

Permit Number: WA0024040
 Facility County: Grays Harbor
 Monitoring Period: 08/01/2016 - 08/31/2016
 Permittee: MCCLEARY STP
 Receiving Waterbody: Wildcat Creek
 Outfall: 001 - East Fork Wildcat Creek

Version: 1

Week	Monitoring Point											
		INF	INF	INF	INF	INF	001	001	001	001	001	001
1-M	8/1/16	0.108					0.088					
1-T	8/2/16	0.149					0.130					
1-W	8/3/16	0.102	149.13	104.47	196.23	137.47	0.084	10.52	93	7.37	1.61	99
1-Th	8/4/16	0.101	153.48	224.33	212.53	145.35	0.082	2.32	99	1.59	2.42	99
1-F	8/5/16	0.141					0.124					
1-Sa	8/6/16	0.144					0.121					
2-Su	8/7/16	0.116					0.095					
2-M	8/8/16	0.127					0.108					
2-T	8/9/16	0.123					0.101					
2-W	8/10/16	0.117	187.18	151.18	82.75	66.94	0.097	9.78	95	7.91	1.39	98
2-Th	8/11/16	0.109	120.21	89.23	67.37	50.00	0.089	1.65	99	1.22	2.54	96
2-F	8/12/16	0.141					0.121					
2-Sa	8/13/16	0.151					0.130					
3-Su	8/14/16	0.106					0.094					
3-M	8/15/16	0.112					0.095					
3-T	8/16/16	0.112					0.096					
3-W	8/17/16	0.109	154.21	117.04	185.28	140.62	0.091	2.28	99	1.73	2.45	99
3-Th	8/18/16	0.119	136.41	109.21	111.82	89.53	0.096	3.91	97	3.13	2.20	98
3-F	8/19/16	0.111					0.098					
3-Sa	8/20/16	0.118					0.104					
4-Su	8/21/16	0.107					0.093					
4-M	8/22/16	0.118					0.104					
4-T	8/23/16	0.155					0.038					
4-W	8/24/16	0.113	255.66	206.82	162.00	131.05	0.097	9.84	96	7.96	2.62	98
4-Th	8/25/16	0.111	139.69	111.84	188.19	150.67	0.096	2.07	99	1.65	2.02	99
4-F	8/26/16	0.124					0.107					
4-Sa	8/27/16	0.134					0.118					
5-Su	8/28/16	0.112					0.099					
5-M	8/29/16	0.117					0.099					
5-T	8/30/16	0.116					0.101					
5-W	8/31/16	0.117					0.102					
Minimum												
Average		0.120645	161.996	139.265	150.771	113.954	0.0999355	5.29625	97	4.07	2.15625	98
		DL: 0.57	Report Only	DL: 742	Report Only	DL: 1252	Report Only	<= 15	>= 85	<= 31	<= 15	>= 85
Weekly Average								6.42		4.8	2.3	
								<= 23		<= 47	<= 23	
Maximum		0.155	255.66	224.33	212.53	150.67	0.13					
		DL: 1.1	Report Only	Report Only	Report Only	Report Only	Report Only					
Daily Maximum												
Monthly geometric mean												
Weekly Geometric Mean												
Week	Monitoring Point	001	001	001	001	001	001					
1-M	8/1/16		7.58	9.98								
1-T	8/2/16		7.48	10.05	1							

1-W	8/3/16	1.13	7.49	10.19		0.14	0.10
1-Th	8/4/16	1.66	7.47	10.00	1	0.07	0.05
1-F	8/5/16		7.70	10.81			
1-Sa	8/6/16						
2-Su	8/7/16						
2-M	8/8/16		7.56	11.40			
2-T	8/9/16		7.60	10.51	1		
2-W	8/10/16	1.12	7.54	9.92	1	0.15	0.12
2-Th	8/11/16	1.89	7.50	10.00		0.17	0.13
2-F	8/12/16		7.44	10.19	1		
2-Sa	8/13/16						
3-Su	8/14/16						
3-M	8/15/16		7.10	10.00			
3-T	8/16/16		7.46	10.10	1		
3-W	8/17/16	1.86	7.52	9.88		0.15	0.11
3-Th	8/18/16	1.76	7.40	10.00	1	0.10	0.08
3-F	8/19/16		7.14	9.97			
3-Sa	8/20/16						
4-Su	8/21/16						
4-M	8/22/16		7.18	10.08			
4-T	8/23/16		7.51	10.00	1		
4-W	8/24/16	2.12	8.06	10.04		0.43	0.35
4-Th	8/25/16	1.62	7.24	9.96	1	0.12	0.10
4-F	8/26/16		7.41	9.93			
4-Sa	8/27/16						
5-Su	8/28/16						
5-M	8/29/16		7.46	9.94			
5-T	8/30/16		7.40	9.86			
5-W	8/31/16		7.30	9.73	1		
Minimum			7.1	9.73			
			>= 6.5	>= 8.7			
Average	1.645					0.16625	0.13
	<= 71					<= 1	<= 4.32
Weekly Average	1.87						
	<= 107						
Maximum		8.06	11.4				
		<= 8.5	Report Only				
Daily Maximum						0.43	0.35
						<= 2	Report Only
Monthly geometric mean					1		
					<= 91		
Weekly Geometric Mean					1		
					<= 182		

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified

personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella
9/7/2016 9:17:12 AM
Signature

Date

2-Su	9/4/16						
2-M	9/5/16		7.14	10.10			
2-T	9/6/16		7.26	9.54			
2-W	9/7/16	4.23	7.41	9.79	9	0.50	0.62
2-Th	9/8/16	2.04	7.74	9.81		0.35	0.30
2-F	9/9/16		7.36	9.90	1		
2-Sa	9/10/16						
3-Su	9/11/16						
3-M	9/12/16		7.34	9.88			
3-T	9/13/16		7.47	9.75	2		
3-W	9/14/16	2.72	7.59	9.80	1	0.23	0.19
3-Th	9/15/16		7.36	9.84			
3-F	9/16/16	2.1	7.70	9.72		0.21	0.17
3-Sa	9/17/16						
4-Su	9/18/16						
4-M	9/19/16		7.44	9.75			
4-T	9/20/16		7.47	9.81	1		
4-W	9/21/16	2.49	7.5	9.72	1	0.22	0.22
4-Th	9/22/16	3.99	7.5	9.85		0.26	0.25
4-F	9/23/16		7.07	9.80			
4-Sa	9/24/16						
5-Su	9/25/16						
5-M	9/26/16		7.12	9.74			
5-T	9/27/16		7.24	9.7			
5-W	9/28/16	2.44	7.29	9.76	1	0.19	0.19
5-Th	9/29/16	4.25	7.18	9.87		0.20	0.17
5-F	9/30/16		7.15	9.73	1		
Minimum			7.07	9.54			
			>= 6.5	>= 8.7			
Average	3.004					0.254	0.253
	<= 71					<= 1	<= 4.32
Weekly Average	3.35						
	<= 107						
Maximum		7.74	10.1				
		<= 8.5	Report Only				
Daily Maximum						0.5	0.62
						<= 2	Report Only
Monthly geometric mean					1.37872		
					<= 91		
Weekly Geometric Mean					1.4		
					<= 182		

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified

personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella
10/11/2016 9:41:40 AM
Signature

Date

2-M	10/3/16		7.23	9.8				18.5
2-T	10/4/16		7.45	9.76	1			18.4
2-W	10/5/16	2.38	7.49	9.68		0.25	0.25	18.6
2-Th	10/6/16	5.57	7.29	9.83	1	0.16	0.19	19.2
2-F	10/7/16		7.2	9.73				18.6
2-Sa	10/8/16							
3-Su	10/9/16							
3-M	10/10/16		6.93	9.90				17.9
3-T	10/11/16		7.2	10.14	1			17.2
3-W	10/12/16	9.85	7.51	10.04		0.27	0.40	17.8
3-Th	10/13/16	1.63	7.21	10.12	1	0.20	0.22	17.8
3-F	10/14/16		6.98	9.3				16.0
3-Sa	10/15/16							
4-Su	10/16/16							
4-M	10/17/16		6.82	10.05				17.0
4-T	10/18/16		6.84	10.04	7			16.8
4-W	10/19/16	13.93	6.83	10.34		0.34	0.98	16.5
4-Th	10/20/16	3.75	6.68	10.05	1	0.20	0.44	17.0
4-F	10/21/16		6.77	10.36				17.7
4-Sa	10/22/16							
5-Su	10/23/16							
5-M	10/24/16		6.75	10.02				17.1
5-T	10/25/16		7.73	10.20	1			17.0
5-W	10/26/16	3.62	6.95	10.00		0.47	0.71	17.0
5-Th	10/27/16	4.8	7.35	10.17	12	0.29	0.47	18.2
5-F	10/28/16		6.94	10.20				16.9
5-Sa	10/29/16							
6-Su	10/30/16							
6-M	10/31/16		7.00	10.21				16.8
Minimum			6.68	9.3				
			>= 6.5	>= 8				
Average	5.69125					0.2725	0.4575	17.5238
	<= 71					<= 1	Report Only	Report Only
Weekly Average	8.84							
	<= 107							
Maximum			7.73	10.36				19.2
			<= 8.5	Report Only				Report Only
Daily Maximum						0.47	0.98	
						<= 2	Report Only	
Monthly geometric mean					1.73994			
					<= 91			
Weekly Geometric Mean					3.4641			
					<= 182			

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified

personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

KevinTrehwella
11/2/2016 1:00:22 PM

Signature

Date