CITY OF SEQUIM

CLALLAM COUNTY, WASHINGTON

GENERAL SEWER PLAN: APPENDICES



G&O #11594
DECEMBER 2013

Gray & Osborne, Inc.
CONSULTING ENGINEERS

APPENDIX A

SEPA CHECKLIST FORM

WAC 197-11-960 Environmental checklist.

ENVIRONMENTAL CHECKLIST

Purpose of checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer," and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

City of Sequim General Sewer Plan

2. Name of applicant:

City of Sequim

3. Address and phone number of applicant and contact person:

Mr. Paul Haines P.E.
City of Sequim Public Works Director
152 W. Cedar Street
Sequim, WA 98382

(360) 683-4139

4. Date checklist prepared:

April 23, 2013 (updated January 22, 2014)

5. Agency requesting checklist:

City of Sequim

6. Proposed timing or schedule (including phasing, if applicable):

General Sewer Plan to obtain regulatory approval and adoption by the City in the spring of 2014. Projects are identified for construction over 6-and 20-year planning periods. Separate project specific SEPA checklists will be prepared prior to construction.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No additional sewer conveyance or WRF improvements are anticipated at this time.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Chapter 1 of the 2013 General Sewer Plan evaluates the sensitive areas, including groundwater, in the City of Sequim and the potential impacts to the planned improvements.

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.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

Department of Ecology approval will be required for most projects as defined by Ecology guidelines. Department of Health approval will be required for certain projects as defined by DOH guidelines. Additional permits may include federal, state, local, and/or construction permits, which will be obtained prior to construction of a specific project.

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 City's General Sewer Plan is a planning document describing the location and types of facilities needed to provide wastewater service including wastewater conveyance, treatment, and septage treatment, to the study area in order to meet present and future needs. The proposal provides a method of implementation of the various prioritized components, each of which will require environmental evaluations and assessments as the projects are constructed in their various phases.

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 City is located along Highway 101 on the North Olympic Peninsula in Clallam County, Washington. The various projects documented within the General Sewer Plan are located throughout the City as well as at the current Water Reclamation Facility. Figure 1-2 shows important service area boundaries for the wastewater system while Figure 3-1 shows the existing City wastewater collection system.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (circle one): *Flat, rolling*, hilly, steep slopes, mountainous, other . . . . . .

The general description of the City is flat and rolling.

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slope is approximately 15 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 prime farmland.

A majority of the soils present in the area are of the Carlsborg-Puget-Dungeness and Hoypus-Sequim-Agnew soil classes. Figure 1-4 shows a full soil classification map of the region.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

None associated with the General Sewer Plan. Project specific soil stability analyses will be completed prior to project construction.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

No filling or grading of any significance is associated with the General Sewer Plan.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No erosion is associated with the General Sewer Plan. Project construction work will include protective measures and current best management practices for possible minor erosion problems.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

An individual SEPA review will be performed for each individual proposed construction project.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Individual project construction specifications will address additional erosion control measures.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

No impacts to air are associated with preparation of the General Sewer Plan. Exhaust from equipment and dust will be the primary source of emissions during the construction of projects proposed in the Plan. Any impact on air quality will be localized and temporary, thus will not permanently adversely affect local air quality.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No off-site emission sources are associated with the General Sewer Plan. Treatment of waste activated sludge in the Biosolids Treatment Process at the City's Water Reclamation Facility is expected to emit some odors, but these odors should not be detectable off-site.

c. **Proposed measures to reduce or control emissions or other impacts to air, if any:**

For construction projects, dust suppression measures and minimization of vehicle idling will be implemented during construction.

3. Water

a. Surface:

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.**

The City is located within the Dungeness River, Cassalery Creek, Gierin Creek, Bell Creek, and Johnson Creek drainage basins. The Dungeness River is located west of the City and has a basin covering approximately 197 square miles. A series of glacial advances and retreats, interrupted by periods of non-glacial deposition, deposited hydrogeologic units in the greater Sequim area. Groundwater flow within the area's aquifers generally occurs from south to north-northeast, where it discharges into Sequim Bay or the Strait of Juan de Fuca.

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 work associated with the General Sewer Plan is associated with the above-listed water bodies. It is possible that select construction projects will take place near the above described waters. The impact to nearby water bodies for individual projects described in the Plan will be determined on a project specific basis through the appropriate permitting process.

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.**

No dredging or filling is associated with preparation of the General Sewer Plan.

4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

No withdrawals or diversions are associated with preparation of the General Sewer Plan.

5) **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

It is possible that select projects will take place in a flood plain. Each of these projects and their location relative to the floodplain are described in the Plan and will be determined on a project specific basis.

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.**

The City's General Sewer Plan identifies construction projects and measures the City will take to maintain compliance with its NPDES permit for the Water Reclamation Facility through the planning period.

b. Ground:

1) **Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.**

No groundwater impacts are associated with preparation of the General Sewer Plan.

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.

Waste activated sludge will continue to be treated using the City's Class A Biosolids Treatment Facilities. A select volume of treated biosolids will be used as a soil amendment. The City will also continue to produce Class A reclaimed water for use at demonstration sites and landscape irrigation locations throughout the City.

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.

No stormwater impacts are associated with preparation of the General Sewer Plan. Methods of collection, treatment (if applicable) and disposal of stormwater will be determined on a project specific basis.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Untreated wastewater would only enter ground or surface waters through a leak in the conveyance system. Treated wastewater is related to Class A Water Re-use Standards and land applied or is treated at the water reclamation facility and discharged to Sequim Bay.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

In general, best management practices will be employed to limit water impacts, but the specific measures to reduce and control surface, ground, or storm water will be project specific.

4. Plants

a. Check or circle types of vegetation found on the site:

X deciduous tree: red alder, big-leaf maple, willow, garry oak
X evergreen tree: Douglas fir, Western red cedar, hemlock, Grand fir
X shrubs: ocean spray, salmonberry, Oregon grape, snowberry
X grass: colonial bentgrass, orchard grass, tall fescue
X pasture: alfalfa, barley
X crop or grain:
X wet soil plants: reed canyongrass, soft rush, salmonberry
X water plants: water parsley, lesser duck weed
X other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Affected vegetation will vary depending on the specific project.

c. List threatened or 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:

Vegetation will vary depending on the specific project.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

The following animals are present within the City:

birds: hawk, eagle, ducks, peregrine falcon, songbirds
mammals: deer, elk, coyote, rabbits, rodents
reptiles: snakes
amphibians: frogs, salamanders
fish: salmon, trout

b. List any threatened or endangered species known to be on or near the site.

Puget Sound chinook salmon, steelhead, and bulltrout, and Hood Canal summer chum salmon are listed as "threatened" under the Endangered Species Act. Several Puget Sound rockfish are listed as "threatened" or "endangered" in the Strait of Juan de Fuca. Lastly, marbled murrelets may fly through the southern end of Olympic National Park.

c. Is the site part of a migration route? If so, explain.

Anadromous fish species including coho salmon, steelhead, and sea-run cutthroat trout have been documented using Bell Creek. The Pacific Flyway crosses the City. Waterfowl, shorebirds, and neotropical migrants pass through the area. In addition, waterfowl and wintering raptors may occur within the water system area. Marbled murrelets may fly through the service area to feed in the Strait of Juan de Fuca during daily feeding migrations.

d. Proposed measures to preserve or enhance wildlife, if any:

SEPA reviews will be performed on each proposed construction project identified in the General Sewer Plan as required.

6. Energy and natural resources

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.

Electric energy is used to provide power and heat for the existing and proposed facilities outlined in the Plan.

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:

In general, conveyance and treatment facilities will be designed and built to flow by gravity where practical. New pumps, blowers, and other equipment will be new, energy efficient models. Energy conservation methods will be selected on an individual project basis.

7. Environmental health

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 hazards are associated with preparation of the General Sewer Plan.

1) Describe special emergency services that might be required.

None anticipated.

2) Proposed measures to reduce or control environmental health hazards, if any:

All industrial safety standards associated with design, construction, and operation of facilities will be observed.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Ambient noise is primarily from traffic and is not anticipated to affect the projects listed in the Plan.

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.

No noise was associated with preparation of the General Sewer Plan. During construction of any of the proposed projects, noise from equipment will be generated from the site. Construction work will occur between the hours of 7:00 AM (PST) and 6:00 PM (PST) from Monday through Friday. Construction of a new biosolids distribution facility may increase small vehicle traffic at or near the water reclamation facility. Noise from these vehicles is not anticipated to be significant and would only occur during normal business hours (Monday through Friday between 8:00 AM and 5:00 PM).

3) Proposed measures to reduce or control noise impacts, if any:

For construction projects identified in the Plan, noise reduction methods will be based on individual project requirements, but will generally include limiting work and special construction traffic hours between 7:00 AM and 5:00 PM, Monday through Friday.

8. Land and shoreline use

a. What is the current use of the site and adjacent properties?

The current use of the water reclamation facility is water reclamation and wastewater treatment. Pipeline work and installation will be within public rights-of-way and acquired easements. The adjoining properties are used for residential, commercial, agricultural, and industrial uses.

b. Has the site been used for agriculture? If so, describe.

SEPA reviews will be performed on each proposed construction project as required.

c. Describe any structures on the site.

Collection system projects and associated structures are described in Chapter 8 of the Plan. Figure 4-4 shows the existing water reclamation facilities.

d. Will any structures be demolished? If so, what?

None anticipated.

e. What is the current zoning classification of the site?

Zoning of the individual project sites is variable. A combination of areas zoned residential, commercial, and mixed-use contain individual projects. The water reclamation facility is zoned under public facilities. Figure 1-7 shows a zoning map for the City.

f. What is the current comprehensive plan designation of the site?

The comprehensive plan designation for areas containing collection system projects will be determined on an individual project basis. The designation for the water reclamation facility is public facilities. SEPA reviews will be performed on each proposed project as required.

g. If applicable, what is the current shoreline master program designation of the site?

SEPA, shoreline, and master plan consistency reviews will be performed on each proposed project as required.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

SEPA reviews will be performed on each proposed project as required.

i. Approximately how many people would reside or work in the completed project?

This number will be determined by the individual project.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The Plan will be reviewed by all applicable land use authorities for compatibility.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Not applicable.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Not applicable.

c. Proposed measures to reduce or control housing impacts, if any:

Not applicable.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

No proposed structures are associated with preparation of the General Sewer Plan. SEPA reviews will be performed on each proposed construction project as required.

b. What views in the immediate vicinity would be altered or obstructed?

No views were impacted during preparation of the General Sewer Plan.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Sites disturbed by construction activities identified in the General Sewer Plan will be restored to their original condition as much as possible.

11. Light and glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

No light or glare was associated with the preparation of the General Sewer Plan. No light or glare issues are anticipated for the individual construction projects, but impacts from light and/or glare will be assessed at the time of construction.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No impacts are associated with preparation of the General Sewer Plan. Light or glare impacts are not anticipated with any of the proposed construction projects.

c. What existing off-site sources of light or glare may affect your proposal?

None anticipated.

d. Proposed measures to reduce or control light and glare impacts, if any:

None anticipated.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Recreational opportunities in the Sequim area include boating, hiking, diving, fishing, hunting, and bird watching, among others. Recreational users of the Olympic National Park and ocean beaches typically pass through the City.

b. Would the proposed project displace any existing recreational uses? If so, describe.

Preparation of the General Sewer Plan did not displace any recreational activities. Impacts to activities from proposed construction projects will be evaluated on an individual project basis.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None measures required for preparation of the General Sewer Plan. Proposed construction projects will be designed to minimize the impact to recreational activities.

13. Historic and cultural preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None known or anticipated.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None known or anticipated.

c. Proposed measures to reduce or control impacts, if any:

No impacts are associated with preparation of the General Sewer Plan. Proposed construction projects in the Plan will undergo either an NHPA Section 106 Consultation or Governors EO05-05 review prior to construction.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Collection system projects identified in the Plan must be considered on an individual project basis. Figure 1-2 shows access roads to the water reclamation facility. US Highway 101, Old Olympic Highway, and Schmuck Road all provide access to the Water Reclamation Facility.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

Transit access will be considered on an individual project basis.

c. How many parking spaces would the completed project have? How many would the project eliminate?

Impacts to parking are not associated with preparation of the General Sewer Plan. Parking will be considered on an individual project basis.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

The proposed projects included in the General Sewer Plan do not anticipate the need for new roads or streets.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

The proposed projects will not use water, rail or air transportation.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Vehicular must be considered on an individual project basis. Vehicle trips are expected to increase at the water reclamation facility after completion of the soil amendment distribution facility. Anticipated trips will not significantly affect traffic at the facility.

g. Proposed measures to reduce or control transportation impacts, if any:

Transportation access and impacts will be considered on an individual project basis.

15. Public services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No increase is associated with preparation of this Plan. Individual construction projects identified in the Plan will provide wastewater treatment and conveyance for the City's service area to accommodate growth. The resultant growth may increase the need for public services.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None anticipated.

16. Utilities

a. Circle utilities currently available at the site: electricity, water, refuse service, telephone, sanitary sewer, communications.

All the above utilities are available at some of the proposed project locations. Specific needs will be considered on an individual project basis.

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.

Water and Sewer services:	City of Sequim;	(360) 683-4908	www.sequimwa.gov
Garbage and waste services:	DM Disposal;	(360) 452-7278	www.murreysdisposal.com
Electricity services:	Clallam County PUD;	(360) 452-9771	www.clallampud.net

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: Mary E. Hartt

Date Submitted: January 22, 2014

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

Do not 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?**

   The proposal will allow development of the wastewater service area per the City of Sequim and Clallam County land use plans. Use or involvement with hazardous substances is not anticipated. Temporary increases in air and/or noise emissions during construction are expected to occur, but their impacts are not expected to be significant.

   Proposed measures to avoid or reduce such increases are:

   Minimizing machinery operations and vehicle idling during construction and project planning with City and construction personnel should limit the impact of noise and air emissions. Construction best management practices for the control of erosion will be implemented to minimize impacts to surface and groundwater.

2. **How would the proposal be likely to affect plants, animals, fish, or marine life?**

   Storm water runoff, dust, and noise pollution could occur during construction activities. Their impact, however, is expected to be minimal. Operation of proposed wastewater conveyance, treatment, and disposal systems identified in the General Sewer Plan will reduce the impacts to fish and wildlife associated with growth in the service area through the 20-year planning period

   Proposed measures to protect or conserve plants, animals, fish, or marine life are:

   Comprehensive sediment and erosion control planning should limit the effect, if any, of dust and stormwater runoff.

3. **How would the proposal be likely to deplete energy or natural resources?**

   New pumps, pumping facilities, or water reclamation facility modifications would require electrical power. Additionally, vehicles associated with construction would consume fossil fuels.

   Proposed measures to protect or conserve energy and natural resources are:

   New pumps and/or motors will be designed to be as efficient as possible, and construction activities will be thoroughly planned and coordinated to minimize vehicle usage. Proposed conveyance and treatment systems will be designed to flow by gravity as much as possible, and new, efficient pump and blower models will be specified.

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?**

   The proposal is consistent with applicable land use plans, which address environmentally sensitive areas such as those listed above. Implementation of projects designed to improve wastewater treatment and conveyance will help to improve and protect threatened species in the region such as chinook salmon, bull trout, and hood canal summer chum salmon by minimizing septic system use and increased use of reclaimed water for stream augmentation and groundwater recharge.

Proposed measures to protect such resources or to avoid or reduce impacts are:

1. The City will coordinate with the Jamestown S'Klallam Tribe and other Olympic Peninsula tribes to minimize impacts and to respect cultural resources.
2. The City will use the Class A reclaimed water to the extent possible to augment stream flows and recharge groundwater.

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?

The proposal is consistent with applicable land use plans, which address shoreline areas. The projects identified in the General Sewer Plan will support existing land uses and planned development within the service area through the 6- and 20-year planning period but do not encourage uses incompatible with existing plans.

Proposed measures to avoid or reduce shoreline and land use impacts are:

Projects identified in the General Sewer Plan will undergo shoreline and land-use reviews as required by state and local regulations.

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

The proposal addresses the provision of wastewater collection and treatment facilities to serve future development within the wastewater service area. Future development most likely will increase demands on transportation and public services and utilities.

Proposed measures to reduce or respond to such demand(s) are:

Construction projects identified in the Plan will include provisions for traffic control to minimize impacts or increases in demand on public transportation during construction.

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.

The proposal will be consistent with laws or requirements for environmental protection. All construction projects will undergo SEPA review and will be reviewed by the appropriate federal, state, and local jurisdictions.

APPENDIX B

ON-SITE SEPTIC SYSTEMS

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018439110	Former Septic System / Decommissioned	SOM2009-12938	SEP70-29004	Conventional	1980	FIFTH AVE	vac
033019220000	Former Septic System / Decommissioned	SOM2009-13169	SEP70-19004	Conventional	1970	HENDRICKSON RD	sfr
033019339020	Former Septic System / Decommissioned	SOM2009-13179	SEP79-00584	Conventional	1980	PINE ST	vac
033020330010	Former Septic System / Decommissioned	SOM2009-13211	SEP86-10083	Conventional	2011	BROWNFIELD RD	pub_os
033020430120	Former Septic System / Decommissioned	SOM2009-13218	SEP75-09241	Conventional	1975	OLD OLYMPIC HWY	vac
033028130350	Former Septic System / Decommissioned	SOM2009-13730	SEP73-07029	Conventional	1974	SIMDARS RD	vac
043024349190	Former Septic System / Decommissioned	SOM2009-18974	SEP92-00106	Conventional	2009	NARROW WAY	vac
043024439000	Former Septic System / Decommissioned	SOM2009-18980	SEP68-07776	Conventional	1968	RIVER RD	vac
043024439040	Former Septic System / Decommissioned	SOM2009-18981	SEP81-00194	Conventional	1981	RIVER RD	rd
043024439060	Former Septic System / Decommissioned	SOM2009-18982	SEP81-00332	Conventional	1981	RIVER RD	rd
043024439070	Former Septic System / Decommissioned	SOM2009-18983	SEP73-07041	Conventional	1973	HWY 101	rd
033021550004	Former Septic System / Not In Use	SOM2011-00296	SEP88-00318	Conventional	1988	BROADMOOR ST	sfr
033028130050	Former Septic System / Not In Use	SOM2009-13728	SEP80-10120	Conventional	1981	LOFGRIN RD	vac
033030420020	Former Septic System / Not In Use	SOM2009-17111	UNKNOWN	Unknown	0	RESERVOIR RD	sfr
043024129140	Former Septic System / Not In Use	SOM2009-19209	UNKNOWN	Unknown	0	PRIEST LN	sfr
043024320020	Former Septic System / Not In Use	SOM2009-19210	SEP79-08410	Conventional	1979	W WASHINGTON	sfr
033018249050	Installed Septic System / Not Yet In Use	SOM2009-12877	SEP2009-00043	Sand Line Pressure	0	EVANS RD	sfr
033022320145	Installed Septic System / Not Yet In Use	SOM2005-00157	SEP2005-00454	Biofilter	2007	TANAGER LANE	vac
043013149190	Installed Septic System / Not Yet In Use	SOM2009-18951	SEP2004-00303	Conventional	2005	LOTUS LN	vac
043025249140	Installed Septic System / Not Yet In Use	SOM2009-17032	SEP2005-00559	Sand Line Pressure	2006	GLENDALE DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025249150	Installed Septic System / Not Yet In Use	SOM2012-00103	SEP2005-00560	Sand Line Pressure	2006	GLENDALE DR	vac
043025249160	Installed Septic System / Not Yet In Use	SOM2009-12620	SEP2005-00558	Sand Line Pressure	2006	GLENDALE DR	vac
033030229090	Pending Septic System / Not Yet Installed	SOM2009-12632	UNKNOWN	Unknown	0	KETTY LN	res_u
043013349020	Pending Septic System / Not Yet Installed	SOM2009-19208	SEP2009-00058	Conventional	0	ROWLAND DR	vac
033016219000	Septic System Known / Required Inspection Current	SOM2009-12634	SEP89-00525	Pressure	1992	PORT WILLIAMS RD	mh
033016249030	Septic System Known / Required Inspection Current	SOM2009-12635	SEP85-00256	Conventional	1985	JOHN SCOTT RD	sfr
033016249050	Septic System Known / Required Inspection Current	SOM2009-12646	SEP86-00114	Tank Only	1986	DELTA WY	sfr
033016249060	Septic System Known / Required Inspection Current	SOM2009-12654	SEP2011-00162	Pressure	2011	JOHN SCOTT RD	sfr
033016249200	Septic System Known / Required Inspection Current	SOM2009-12655	SEP2007-00131	Pressure	2007	DELTA WY	sfr
033016339030	Septic System Known / Required Inspection Current	SOM2009-12661	SEP80-00463	Conventional	1980	BELL MEADOW LN	mh
033017110200	Septic System Known / Required Inspection Current	SOM2009-12664	SEP90-00592	Pressure	1992	HARRIETTE LN	sfr_ag
033017120160	Septic System Known / Required Inspection Current	SOM2009-12665	SEP99-00348	Conventional	2001	HARRIETTE LN	sfr
033017229000	Septic System Known / Required Inspection Current	SOM2009-12673	SEP86-00296	Conventional	1987	IOKA RD	sfr
033017229010	Septic System Known / Required Inspection Current	SOM2009-12676	SEP89-00488	Conventional	1990	IOKA RD	sfr
033017229090	Septic System Known / Required Inspection Current	SOM2009-12681	SEP2001-00283	ATU	2002	IOKA RD	sfr
033017229120	Septic System Known / Required Inspection Current	SOM2009-12716	SEP2000-00245	Sand Line Pressure	2000	IOKA RD	sfr
033017230050	Septic System Known / Required Inspection Current	SOM2009-12719	SEP2011-00063	Conventional	2011	PORT WILLIAMS RD	pub
033017349140	Septic System Known / Required Inspection Current	SOM2009-12722	SEP94-00266	Sand Line Pressure	1994	GLACIER VIEW DR	sfr
033017349180	Septic System Known / Required Inspection Current	SOM2009-12742	SEP2007-00160	Pressure	2008	GREY FOX RD	sfr
033017349210	Septic System Known / Required Inspection Current	SOM2006-00035	SEP95-00465	Pressure	1996	GLACIER VIEW DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017520030	Septic System Known / Required Inspection Current	SOM2009-12752	SEP99-00265	Pressure	1999	VALLEY FARM CT	sfr
033017530000	Septic System Known / Required Inspection Current	SOM2009-12772	SEP2002-00020	Sand Line Pressure	2002	JESSLYN LN	mfr
033018110000	Septic System Known / Required Inspection Current	SOM2009-12777	SEP82-00204	Pressure	1984	SANFORD LANE	pub_q
033018119210	Septic System Known / Required Inspection Current	SOM2009-12784	SEP90-00787	Conventional	1992	SANFORD LN	sfr
033018129050	Septic System Known / Required Inspection Current	SOM2009-12785	SEP2007-00336	Pressure	2008	PLUM TREE LN	sfr
033018129150	Septic System Known / Required Inspection Current	SOM2009-12799	SEP90-00138	Conventional	1991	PLUM TREE LN	sfr
033018129160	Septic System Known / Required Inspection Current	SOM2009-12824	SEP89-00111	Conventional	1990	PLUM TREE LN	sfr
033018149120	Septic System Known / Required Inspection Current	SOM2009-12829	SEP85-00008	Conventional	1984	CROWNVIEW LN	sfr
033018220180	Septic System Known / Required Inspection Current	SOM2009-12835	SEP2012-00037	Sand Line Pressure	2012	FITZGERALD RD	sfr
033018220240	Septic System Known / Required Inspection Current	SOM2009-12837	SEP75-09039	Conventional	1975	FITZGERALD RD	sfr
033018229060	Septic System Known / Required Inspection Current	SOM2009-12842	SEP82-00100	Conventional	1982	HOUSE RD	sfr
033018230010	Septic System Known / Required Inspection Current	SOM2009-12844	SEP99-00055	Conventional	1999	LUND LN	mh
033018230120	Septic System Known / Required Inspection Current	SOM2009-12853	SEP94-NP191	Conventional	1970	HOUSE RD	mh
033018230140	Septic System Known / Required Inspection Current	SOM2009-12863	SEP74-NP090	Conventional	1974	HOUSE RD	mh
033018230270	Septic System Known / Required Inspection Current	SOM2009-12873	SEP69-00147	Conventional	1969	OLD OLYMPIC HWY	mh
033018239070	Septic System Known / Required Inspection Current	SOM2009-12888	SEP89-00276	Pressure	1991	DIANE DR	sfr
033018249010	Septic System Known / Required Inspection Current	SOM2009-12889	SEP2010-NP065	Conventional	1977	GOLD CT	mh
033018249160	Septic System Known / Required Inspection Current	SOM2009-12909	SEP85-00101	Pump to Gravity	1987	OLD OLYMPIC HWY	sfr
033018249170	Septic System Known / Required Inspection Current	SOM2009-12921	SEP97-00268	Sand Line Pressure	1999	OLD OLYMPIC HWY	sfr
033018330070	Septic System Known / Required Inspection Current	SOM2009-12954	SEP2004-00159	Sand Line Pressure	2005	HENDRICKSON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018419040	Septic System Known / Required Inspection Current	SOM2009-12966	SEP78-05667	Conventional	1979	BEVERAGE ST	sfr
033018500000	Septic System Known / Required Inspection Current	SOM2009-12971	SEP73-16673	Conventional	1973	DEYTONA ST	mh
033018500120	Septic System Known / Required Inspection Current	SOM2009-12978	SEP78-05218	Conventional	1978	DEYTONA ST	mh
033018500170	Septic System Known / Required Inspection Current	SOM2009-12979	SEP2008-00078	Conventional	2008	DEYTONA ST	mh
033018500240	Septic System Known / Required Inspection Current	SOM2009-12981	SEP76-03480	Conventional	1976	DEYTONA ST	vac
033018500250	Septic System Known / Required Inspection Current	SOM2009-12983	SEP73-07009	Conventional	1973	DEYTONA ST	mh
033018500270	Septic System Known / Required Inspection Current	SOM2009-12997	SEP78-04104	Conventional	1978	DEYTONA ST	mh
033018500300	Septic System Known / Required Inspection Current	SOM2009-13001	SEP74-03842	Conventional	1974	DEYTONA ST	mh
033018520700	Septic System Known / Required Inspection Current	SOM2009-13012	SEP74-03337	Conventional	1974	COTTONWOOD LN	mh
033018521100	Septic System Known / Required Inspection Current	SOM2009-13018	SEP2010-NP315	Conventional	1976	COTTONWOOD LN	mh
033018522300	Septic System Known / Required Inspection Current	SOM2009-13044	SEP78-03272	Conventional	1979	COTTONWOOD LN	mh
033018522900	Septic System Known / Required Inspection Current	SOM2009-13051	SEP77-04164	Conventional	1978	COTTONWOOD LN	mh
033018550130	Septic System Known / Required Inspection Current	SOM2009-13055	SEP78-14055	Conventional	1978	KAREN CT	sfr
033018550200	Septic System Known / Required Inspection Current	SOM2012-00075	SEP78-34055	Conventional	1978	KELLIE CT	sfr
033018550260	Septic System Known / Required Inspection Current	SOM2011-00344	SEP91-00649	Sand Line Pressure	1994	ELIZABETH LN	sfr
033018610390	Septic System Known / Required Inspection Current	SOM2012-00073	SEP88-00226	Pressure	1989	ANCHOR COVE LN	mfr
033018610410	Septic System Known / Required Inspection Current	SOM2012-00018	SEP88-00186	Pressure	1989		
033018630100	Septic System Known / Required Inspection Current	SOM2009-13091	SEP91-00202	Sand Line Pressure	1992	MARINERS DR	mfr
033018650240	Septic System Known / Required Inspection Current	SOM2009-13101	SEP2011-00140	Sand Line Pressure	2012	MARINERS WY	vac
033018680040	Septic System Known / Required Inspection Current	SOM2009-13102	SEP96-00048	Sand Line Pressure	1996	DUKE DR	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018680140	Septic System Known / Required Inspection Current	SOM2009-13113	SEP96-00497	Pressure	1997	DUKE DR	sfr
033018680150	Septic System Known / Required Inspection Current	SOM2009-13115	SEP98-00085	Pressure	2000	DUKE DR	sfr
033018680260	Septic System Known / Required Inspection Current	SOM2009-13117	SEP97-00132	Sand Line Pressure	1997	DUKE DR	sfr
033018680280	Septic System Known / Required Inspection Current	SOM2011-00301	SEP96-00049	Sand Line Pressure	1996	DUKE DR	sfr
033018680300	Septic System Known / Required Inspection Current	SOM2009-13144	SEP96-00097	Sand Line Pressure	1996	DUKE DR	sfr
033018740170	Septic System Known / Required Inspection Current	SOM2011-00300	SEP95-00031	Sand Line Pressure	1995		mfr
033018740180	Septic System Known / Required Inspection Current	SOM2011-00115	SEP95-00030	Sand Line Pressure	1995		mfr
033018740190	Septic System Known / Required Inspection Current	SOM2011-00330	SEP95-00032	Sand Line Pressure	1995		mfr
033019320070	Septic System Known / Required Inspection Current	SOM2011-00158	SEP2010-00133	Conventional	2010	SHAW LN	sfr_ag
033019320125	Septic System Known / Required Inspection Current	SOM2009-13223	sep2003-00455	Sand Line Pressure	2004	NINTH AVE	mh
033019349130	Septic System Known / Required Inspection Current	SOM2009-13227	SEP73-NP626	Conventional	1973	OLALLEE LN	mh
033020440120	Septic System Known / Required Inspection Current	SOM2009-13233	SEP71-18340	Conventional	1971	FOXFIRE LN	sfr
033020440175	Septic System Known / Required Inspection Current	SOM2009-13234	SEP69-00978	Conventional	1969	FOXFIRE LN	sfr
033020580000	Septic System Known / Required Inspection Current	SOM2009-13235	SEP76-08019	Tank Only	1976	STILL RD	sfr
033020580020	Septic System Known / Required Inspection Current	SOM2009-13236	SEP69-NP950	Tank Only	1969	BELFIELD AVE	sfr
033020580040	Septic System Known / Required Inspection Current	SOM2009-13237	SEP77-01246	Tank Only	1977	BELFIELD AVE	sfr
033020580060	Septic System Known / Required Inspection Current	SOM2009-13238	SEP77-11246	Tank Only	1977	BELFIELD AVE	sfr
033020580080	Septic System Known / Required Inspection Current	SOM2009-13239	SEP94-00183	Tank Only	1995	BELFIELD AVE	mh
033020580120	Septic System Known / Required Inspection Current	SOM2009-13240	SEP72-NP880	Tank Only	1972	BELFIELD AVE	sfr
033020580140	Septic System Known / Required Inspection Current	SOM2009-13241	SEP77-21246	Tank Only	1977	BELFIELD AVE	sfr

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033020580160	Septic System Known / Required Inspection Current	SOM2009-13242	SEP77-31246	Tank Only	1977	BELFIELD AVE	sfr
033020580180	Septic System Known / Required Inspection Current	SOM2009-13243	SEP68-NP840	Tank Only	1968	BELFIELD AVE	sfr
033020580200	Septic System Known / Required Inspection Current	SOM2009-13244	SEP70-NP830	Tank Only	1970	BELFIELD AVE	sfr
033020580220	Septic System Known / Required Inspection Current	SOM2009-13245	SEP69-08099	Tank Only	1969	BELFIELD AVE	sfr
033020580240	Septic System Known / Required Inspection Current	SOM2009-13246	SEP72-09366	Tank Only	1972	BELFIELD AVE	sfr
033020580260	Septic System Known / Required Inspection Current	SOM2009-13247	SEP93-00564	Tank Only	1994	BELFIELD AVE	mh
033020580280	Septic System Known / Required Inspection Current	SOM2009-13255	SEP94-00149	Tank Only	1994	BELFIELD AVE	mh
033020580300	Septic System Known / Required Inspection Current	SOM2008-00103	SEP90-00271	Tank Only	1990	BELFIELD AVE	sfr
033020580460	Septic System Known / Required Inspection Current	SOM2009-13257	SEP2010-NP989	Tank Only	1980	BLAIR AVE	mh
033020580470	Septic System Known / Required Inspection Current	SOM2009-13258	SEP2004-00531	Tank Only	2004	BLAIR AVE	mh
033020580480	Septic System Known / Required Inspection Current	SOM2004-00160	SEP69-08101	Tank Only	1969	BLAIR AVE	sfr
033020580500	Septic System Known / Required Inspection Current	SOM2009-13262	SEP89-00369	Tank Only	1989	BLAIR AVE	mh
033020580600	Septic System Known / Required Inspection Current	SOM2009-13263	sep82-10047	Pressure	1988	OLD OLYMPIC HWY	util
033020610000	Septic System Known / Required Inspection Current	SOM2009-13264	SEP69-08098	Tank Only	1969	BELFIELD AVE	sfr
033020610020	Septic System Known / Required Inspection Current	SOM2009-13265	SEP77-41246	Tank Only	1977	BELFIELD AVE	sfr
033020610040	Septic System Known / Required Inspection Current	SOM2009-13266	SEP76-02268	Tank Only	1976	BELFIELD AVE	sfr
033020610060	Septic System Known / Required Inspection Current	SOM2009-13267	SEP77-02403	Tank Only	1977	BELFIELD AVE	sfr
033020610080	Septic System Known / Required Inspection Current	SOM2009-13268	SEP77-NP923	Tank Only	1977	BELFIELD AVE	sfr
033020610100	Septic System Known / Required Inspection Current	SOM2009-13269	SEP76-18019	Tank Only	1976	BELFIELD AVE	sfr
033020610120	Septic System Known / Required Inspection Current	SOM2009-13270	SEP72-NP091	Tank Only	1972	BELFIELD AVE	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020610140	Septic System Known / Required Inspection Current	SOM2009-13271	SEP73-NP871	Tank Only	1973	BELFIELD AVE	sfr
033020610160	Septic System Known / Required Inspection Current	SOM2009-13285	SEP76-28019	Tank Only	1976	BELFIELD AVE	sfr
033020610180	Septic System Known / Required Inspection Current	SOM2009-13287	SEP76-03439	Tank Only	1976	BELFIELD AVE	sfr
033020610480	Septic System Known / Required Inspection Current	SOM2011-00299	SEP77-51246	Tank Only	1977	BLAIR AVE	sfr
033020610520	Septic System Known / Required Inspection Current	SOM2004-00182	SEP69-01535	Tank Only	1969	BLAIR AVE	sfr
033020660100	Septic System Known / Required Inspection Current	SOM2009-13312	SEP79-NP710	Conventional	1979	FIR ST	mfr
033021140185	Septic System Known / Required Inspection Current	SOM2009-13344	SEP2001-00223	Biofilter	2001	WASHINGTON HARBOR RD	sfr
033021229010	Septic System Known / Required Inspection Current	SOM2004-00032	SEP2012-00019	Pressure	2012	BELL MEADOW LN	vac
033021439010	Septic System Known / Required Inspection Current	SOM2009-13346	SEP94-00353	Pressure	1994	BELL BOTTOM RD	sfr
033021439020	Septic System Known / Required Inspection Current	SOM2006-00101	SEP99-00551	Biofilter	2000	BELL BOTTOM RD	sfr
033021439030	Septic System Known / Required Inspection Current	SOM2008-00072	SEP2001-00315	Pressure	2002	BELL BOTTOM RD	sfr
033021500000	Septic System Known / Required Inspection Current	SOM2008-00082	SEP92-00310	Pressure	1995	LIBERTY ST	pub_os
033021500020	Septic System Known / Required Inspection Current	SOM2008-00080	SEP95-00353	Tank Only	1995	LIBERTY WY	sfr
033021500040	Septic System Known / Required Inspection Current	SOM2008-00086	SEP95-00351	Tank Only	1995	AMERICA BLVD	sfr
033021500060	Septic System Known / Required Inspection Current	SOM2008-00087	SEP95-00352	Tank Only	1995	AMERICA BLVD	sfr
033021500070	Septic System Known / Required Inspection Current	SOM2008-00088	SEP2004-00561	Tank Only	2005	AMERICA BLVD	sfr
033021500080	Septic System Known / Required Inspection Current	SOM2009-13362	SEP2005-00022	Tank Only	2005	AMERICA BLVD	sfr
033021500090	Septic System Known / Required Inspection Current	SOM2009-13363	SEP2004-00299	Tank Only	2005	AMERICA BLVD	sfr
033021500100	Septic System Known / Required Inspection Current	SOM2009-31428	SEP98-00352	Tank Only	1999	PATRIOT WY	sfr
033021500120	Septic System Known / Required Inspection Current	SOM2009-31429	SEP97-00291	Tank Only	1997	PATRIOT WY	sfr

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033021500130	Septic System Known / Required Inspection Current	SOM2008-00084	SEP2004-00146	Tank Only	2004	PATRIOT WY	sfr
033021500140	Septic System Known / Required Inspection Current	SOM2008-00078	SEP2004-00148	Tank Only	2004	PATRIOT WY	sfr
033021500150	Septic System Known / Required Inspection Current	SOM2009-13369	SEP96-00387	Tank Only	1996	AMERICA BLVD	sfr
033021500170	Septic System Known / Required Inspection Current	SOM2009-13370	SEP96-00362	Tank Only	1996	AMERICA BLVD	sfr
033021500190	Septic System Known / Required Inspection Current	SOM2008-00076	SEP2004-00343	Tank Only	2006	INDEPENDENCE DR	sfr
033021500200	Septic System Known / Required Inspection Current	SOM2008-00077	sep2005-00036	Tank Only	2005	INDEPENDENCE DR	sfr
033021500210	Septic System Known / Required Inspection Current	SOM2008-00074	SEP96-00026	Tank Only	1996	AMERICA BLVD	sfr
033021500220	Septic System Known / Required Inspection Current	SOM2009-13375	SEP96-00424	Tank Only	1996	AMERICA BLVD	sfr
033021500240	Septic System Known / Required Inspection Current	SOM2009-13377	sep95-00313	Tank Only	1995	LIBERTY WY	sfr
033021500270	Septic System Known / Required Inspection Current	SOM2009-13378	SEP96-00493	Tank Only	1997	AMERICA BLVD	sfr
033021500290	Septic System Known / Required Inspection Current	SOM2009-13379	SEP2001-00414	Tank Only	2002	AMERICA BLVD	sfr
033021500300	Septic System Known / Required Inspection Current	SOM2009-13380	SEP2004-00342	Tank Only	2005	AMERICA BLVD	sfr
033021500310	Septic System Known / Required Inspection Current	SOM2009-13381	SEP2004-00341	Tank Only	2004	AMERICA BLVD	sfr
033021500320	Septic System Known / Required Inspection Current	SOM2009-13382	SEP2004-00340	Tank Only	2004	AMERICA BLVD	sfr
033021500330	Septic System Known / Required Inspection Current	SOM2009-13383	SEP2004-00339	Tank Only	2004	AMERICA BLVD	sfr
033021500340	Septic System Known / Required Inspection Current	SOM2009-13384	SEP2005-00035	Tank Only	2005	AMERICA BLVD	sfr
033021500350	Septic System Known / Required Inspection Current	SOM2009-13385	SEP2002-00003	Tank Only	2003	INDEPENDENCE DR	sfr
033021500360	Septic System Known / Required Inspection Current	SOM2009-13386	SEP2002-00051	Tank Only	2004	INDEPENDENCE DR	sfr
033021500370	Septic System Known / Required Inspection Current	SOM2009-13387	SEP2004-00344	Tank Only	2006	INDEPENDENCE DR	sfr
033021500380	Septic System Known / Required Inspection Current	SOM2009-13388	SEP2004-00147	Tank Only	2004	INDEPENDENCE DR	sfr

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033021500390	Septic System Known / Required Inspection Current	SOM2009-13389	SEP2001-00416	Tank Only	2002	INDEPENDENCE DR	sfr
033021500400	Septic System Known / Required Inspection Current	SOM2009-13390	SEP2001-00415	Tank Only	2002	AMERICA BLVD	sfr
033021500420	Septic System Known / Required Inspection Current	SOM2009-13391	SEP2001-00417	Tank Only	2002	AMERICA BLVD	sfr
033021500430	Septic System Known / Required Inspection Current	SOM2009-13392	SEP2005-00007	Tank Only	2005	PATRIOT WY	sfr
033021500440	Septic System Known / Required Inspection Current	SOM2009-13393	SEP2005-00009	Tank Only	2005	PATRIOT WY	vac
033021500470	Septic System Known / Required Inspection Current	SOM2009-13394	SEP2004-00322	Tank Only	2004	PATRIOT WY	sfr
033021500480	Septic System Known / Required Inspection Current	SOM2009-13395	SEP2004-00225	Tank Only	2004	PATRIOT WY	sfr
033021500490	Septic System Known / Required Inspection Current	SOM2009-13397	SEP2004-00008	Tank Only	2005	PATRIOT WY	sfr
033021500510	Septic System Known / Required Inspection Current	SOM2009-13399	SEP98-00250	Tank Only	1999	PATRIOT WY	sfr
033021500530	Septic System Known / Required Inspection Current	SOM2009-13401	SEP98-00251	Tank Only	1999	PATRIOT WY	sfr
033021500540	Septic System Known / Required Inspection Current	SOM2009-13403	SEP97-00433	Tank Only	1999	PATRIOT WY	sfr
033021500560	Septic System Known / Required Inspection Current	SOM2008-00071	SEP98-00343	Tank Only	1999	PATRIOT WY	sfr
033021500580	Septic System Known / Required Inspection Current	SOM2009-13406	SEP97-00394	Tank Only	1998	PATRIOT WY	sfr
033021500600	Septic System Known / Required Inspection Current	SOM2009-13407	SEP2003-00250	Tank Only	2004	INDEPENDENCE DR	sfr
033021500610	Septic System Known / Required Inspection Current	SOM2009-13408	SEP2003-00268	Tank Only	2004	INDEPENDENCE DR	sfr
033021500620	Septic System Known / Required Inspection Current	SOM2009-13409	SEP2003-00249	Tank Only	2004	INDEPENDENCE DR	sfr
033021500630	Septic System Known / Required Inspection Current	SOM2009-13410	SEP2003-00267	Tank Only	2004	INDEPENDENCE DR	sfr
033021500640	Septic System Known / Required Inspection Current	SOM2009-13411	SEP2003-00266	Tank Only	2004	INDEPENDENCE DR	sfr
033021500650	Septic System Known / Required Inspection Current	SOM2009-13412	SEP2003-00251	Tank Only	2004	INDEPENDENCE DR	sfr
033021500660	Septic System Known / Required Inspection Current	SOM2009-13413	SEP2003-00265	Tank Only	2005	INDEPENDENCE DR	sfr

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033021500670	Septic System Known / Required Inspection Current	SOM2009-13414	SEP98-00439	Tank Only	1999	INDEPENDENCE DR	sfr
033021500680	Septic System Known / Required Inspection Current	SOM2009-13415	SEP99-00423	Tank Only	1999	INDEPENDENCE DR	sfr
033021500690	Septic System Known / Required Inspection Current	SOM2009-13416	SEP2004-00069	Tank Only	2004	INDEPENDENCE DR	sfr
033021500700	Septic System Known / Required Inspection Current	SOM2009-13417	SEP2004-00068	Tank Only	2004	INDEPENDENCE DR	sfr
033021500710	Septic System Known / Required Inspection Current	SOM2009-13418	SEP99-00210	Tank Only	2000	INDEPENDENCE DR	sfr
033021500720	Septic System Known / Required Inspection Current	SOM2009-13419	SEP2003-00071	Tank Only	2003	AMERICA BLVD	sfr
033021500730	Septic System Known / Required Inspection Current	SOM2008-00152	SEP2003-00068	Tank Only	2004	AMERICA BLVD	sfr
033021500740	Septic System Known / Required Inspection Current	SOM2008-00147	SEP2003-00069	Tank Only	2004	AMERICA BLVD	sfr
033021500790	Septic System Known / Required Inspection Current	SOM2008-00148	SEP2003-00501	Tank Only	2004	AMERICA BLVD	sfr
033021500800	Septic System Known / Required Inspection Current	SOM2008-00149	SEP2004-00226	Tank Only	2004	AMERICA BLVD	sfr
033021500810	Septic System Known / Required Inspection Current	SOM2008-00150	SEP2002-00050	Tank Only	2003	AMERICA BLVD	sfr
033021500830	Septic System Known / Required Inspection Current	SOM2008-00151	SEP2004-00041	Tank Only	2004	AMERICA BLVD	sfr
033021500840	Septic System Known / Required Inspection Current	SOM2009-13426	SEP2004-00286	Tank Only	2004	AMERICA BLVD	sfr
033021500850	Septic System Known / Required Inspection Current	SOM2009-13427	SEP99-00319	Tank Only	2000	AMERICA BLVD	sfr
033021500860	Septic System Known / Required Inspection Current	SOM2009-13428	SEP2004-00071	Tank Only	2004	AMERICA BLVD	sfr
033021500870	Septic System Known / Required Inspection Current	SOM2009-13429	SEP2004-00070	Tank Only	2004	AMERICA BLVD	sfr
033021500880	Septic System Known / Required Inspection Current	SOM2009-13430	SEP2003-00072	Tank Only	2004	AMERICA BLVD	sfr
033021500890	Septic System Known / Required Inspection Current	SOM2009-13431	SEP2003-00070	Tank Only	2004	AMERICA BLVD	sfr
033021500900	Septic System Known / Required Inspection Current	SOM2009-13433	SEP2004-00150	Tank Only	2004	AMERICA BLVD	sfr
033021500910	Septic System Known / Required Inspection Current	SOM2009-13435	SEP97-00395	Tank Only	1998	INDEPENDENCE DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021500930	Septic System Known / Required Inspection Current	SOM2009-13437	SEP97-00232	Tank Only	1998	INDEPENDENCE DR	sfr
033021500950	Septic System Known / Required Inspection Current	SOM2008-00089	SEP97-00230	Tank Only	1997	INDEPENDENCE DR	sfr
033021500970	Septic System Known / Required Inspection Current	SOM2008-00090	SEP97-00231	Tank Only	1997	INDEPENDENCE DR	sfr
033021500990	Septic System Known / Required Inspection Current	SOM2008-00091	SEP2004-00285	Tank Only	2004	AMERICA BLVD	sfr
033021501000	Septic System Known / Required Inspection Current	SOM2009-13442	SEP2004-00017	Tank Only	2004	AMERICA BLVD	sfr
033021501010	Septic System Known / Required Inspection Current	SOM2009-13443	SEP2002-00477	Tank Only	2003	AMERICA BLVD	sfr
033021501020	Septic System Known / Required Inspection Current	SOM2009-13444	SEP2008-00258	Tank Only	2009	AMERICA BLVD	vac
033021501030	Septic System Known / Required Inspection Current	SOM2009-13445	SEP99-00424	Pressure	1999	INDEPENDENCE DR	sfr
033021501040	Septic System Known / Required Inspection Current	SOM2009-13447	sep2004-00145	Tank Only	2005	INDEPENDENCE DR	sfr
033021501050	Septic System Known / Required Inspection Current	SOM2009-13449	SEP98-00047	Pressure	1998	INDEPENDENCE DR	sfr
033021501070	Septic System Known / Required Inspection Current	SOM2008-00153	SEP98-00441	Pressure	1999	INDEPENDENCE DR	sfr
033021501090	Septic System Known / Required Inspection Current	SOM2009-13452	SEP98-00440	Pressure	1999	INDEPENDENCE DR	sfr
033021501120	Septic System Known / Required Inspection Current	SOM2009-13453	SEP2004-NP421	Tank Only	2004	AMERICA BLVD	sfr
033021501130	Septic System Known / Required Inspection Current	SOM2009-13454	SEP2003-00061	Tank Only	2003	AMERICA BLVD	sfr
033021501140	Septic System Known / Required Inspection Current	SOM2009-13455	SEP2004-00149	Tank Only	2004	AMERICA BLVD	sfr
033021501150	Septic System Known / Required Inspection Current	SOM2009-13456	SEP2004-00210	Tank Only	2004	AMERICA BLVD	sfr
033021501160	Septic System Known / Required Inspection Current	SOM2009-13457	SEP2005-00460	Tank Only	2006	AMERICA BLVD	sfr
033021501170	Septic System Known / Required Inspection Current	SOM2009-13458	SEP2005-00052	Tank Only	2006	AMERICA BLVD	sfr
033021501180	Septic System Known / Required Inspection Current	SOM2009-13459	SEP2005-00053	Tank Only	2006	AMERICA BLVD	sfr
033021501190	Septic System Known / Required Inspection Current	SOM2008-00092	SEP2004-00161	Tank Only	2005	AMERICA BLVD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021501200	Septic System Known / Required Inspection Current	SOM2008-00093	SEP2010-NP988	Tank Only	2006	AMERICA BLVD	sfr
033021501210	Septic System Known / Required Inspection Current	SOM2008-00094	SEP2004-00223	Tank Only	2004	AMERICA BLVD	sfr
033021501220	Septic System Known / Required Inspection Current	SOM2009-31453	SEP2004-00224	Tank Only	2004	AMERICA BLVD	sfr
033021501230	Septic System Known / Required Inspection Current	SOM2009-13463	SEP2004-00435	Tank Only	2005	AMERICA BLVD	sfr
033021501240	Septic System Known / Required Inspection Current	SOM2008-00095	SEP2008-00105	Tank Only	2008	AMERICA BLVD	sfr
033021501250	Septic System Known / Required Inspection Current	SOM2008-00096	SEP2008-00106	Tank Only	2008	AMERICA BLVD	sfr
033021501260	Septic System Known / Required Inspection Current	SOM2008-00146	SEP2004-00139	Tank Only	2005	AMERICA BLVD	sfr
033021501270	Septic System Known / Required Inspection Current	SOM2009-13467	SEP2004-00540	Tank Only	2004	AMERICA BLVD	sfr
033021501280	Septic System Known / Required Inspection Current	SOM2007-00087	SEP2004-00541	Tank Only	2006	AMERICA BLVD	sfr
033021501290	Septic System Known / Required Inspection Current	SOM2008-00014	SEP2008-NP467	Tank Only	1992	AMERICA BLVD	cml
033022310030	Septic System Known / Required Inspection Current	SOM2006-00048	SEP2007-00340	Biofilter	2008	ENCHANTMENT WY	mh
033022320090	Septic System Known / Required Inspection Current	SOM2009-13496	SEP2002-00072	ATU	2008	BIG FOOT LN	sfr
033022320150	Septic System Known / Required Inspection Current	SOM2009-13500	SEP2006-00155	Biofilter	2011	TANAGER LANE	vac
033022320160	Septic System Known / Required Inspection Current	SOM2009-13503	SEP91-00487	Pressure	1992	JUNCO RD	mh
033022330060	Septic System Known / Required Inspection Current	SOM2009-13505	SEP77-02822	Conventional	1977	SEQUIM BAY RD	sfr
033022330140	Septic System Known / Required Inspection Current	SOM2009-13524	sep99-np017	Conventional	1975	KEELER RD	sfr
033022330180	Septic System Known / Required Inspection Current	SOM2009-13646	SEP92-00328	Conventional	1992	BAY RIDGE PL	vac
033022349060	Septic System Known / Required Inspection Current	SOM2009-13649	SEP91-00127	Conventional	1992	SEQUIM BAY RD	sfr
033027219010	Septic System Known / Required Inspection Current	SOM2009-13650	SEP95-00431	Sand Line Pressure	1998	SEQUIM BAY RD	sfr
033027219050	Septic System Known / Required Inspection Current	SOM2009-13653	SEP2009-00078	Pressure	2009	SEQUIM BAY RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027219060	Septic System Known / Required Inspection Current	SOM2009-13658	SEP2003-00261	Sand Filter Pressure	2003	SEQUIM BAY RD	sfr
033027219090	Septic System Known / Required Inspection Current	SOM2009-13666	SEP83-10046	Conventional	1983	SEQUIM BAY RD	sfr
033027239040	Septic System Known / Required Inspection Current	SOM2009-13669	SEP87-00116	Pressure	1987	SPY GLASS LN	sfr
033027249020	Septic System Known / Required Inspection Current	SOM2009-13670	SEP81-00145	Conventional	1982	SPY GLASS LN	sfr
033027249050	Septic System Known / Required Inspection Current	SOM2009-13677	SEP2009-00067	Sand Line Pressure	2009	MARINERS VIEW CT	vac
033027249060	Septic System Known / Required Inspection Current	SOM2009-13681	SEP2001-00407	Pressure	2002	MARINERS VIEW CT	sfr
033027249160	Septic System Known / Required Inspection Current	SOM2009-13688	SEP2004-00232	Pressure	2005	MARINERS VIEW CT	sfr
033027420150	Septic System Known / Required Inspection Current	SOM2009-13693	SEP84-00201	Pressure	1984	SEQUIM BAY RD	pub
033027430200	Septic System Known / Required Inspection Current	SOM2009-13695	SEP2004-00391	Biofilter	2005	SEQUIM BAY RD	sfr
033027500027	Septic System Known / Required Inspection Current	SOM2009-13697	SEP2012-00009	Conventional	2012	FORREST RD	sfr
033027500045	Septic System Known / Required Inspection Current	SOM2009-00120	SEP86-00091	Conventional	1986	FORREST RD	sfr
033027500067	Septic System Known / Required Inspection Current	SOM2005-00082	SEP79-08070	Conventional	1979	FORREST RD	wtr
033027500073	Septic System Known / Required Inspection Current	SOM2008-00061	SEP2009-00144	Biofilter	2009	SEQUIM BAY RD	sfr
033027510200	Septic System Known / Required Inspection Current	SOM2009-13721	SEP2005-00072	Biofilter	2005	SEQUIM BAY RD	sfr
033027510230	Septic System Known / Required Inspection Current	SOM2009-13722	SEP97-00183	Pressure	1998	SEQUIM BAY RD	sfr
033027530090	Septic System Known / Required Inspection Current	SOM2009-13756	SEP2000-00327	Conventional	2000	SPY GLASS LN	sfr
033027530100	Septic System Known / Required Inspection Current	SOM2010-00086	SEP96-00329	Conventional	1996	SPY GLASS LN	sfr
033028449030	Septic System Known / Required Inspection Current	SOM2009-13951	SEP2008-00198	Mound	2011	CLEARVIEW LN	vac
033029210070	Septic System Known / Required Inspection Current	SOM2009-13953	SEP82-00221	Conventional	1982	MILLER RD	mh
033030220120	Septic System Known / Required Inspection Current	SOM2009-13978	SEP86-00209	Conventional	1986	DAISY LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030220140	Septic System Known / Required Inspection Current	SOM2009-13983	SEP76-NPR03	Conventional	1976	DAISY LN	sfr
033030249040	Septic System Known / Required Inspection Current	SOM2004-00196	SEP81-10059	Conventional	1981	SEVENTH AVE	sfr
033030320010	Septic System Known / Required Inspection Current	SOM2009-13993	SEP81-41081	Conventional	1981		ag
033030340030	Septic System Known / Required Inspection Current	SOM2009-14022	SEP2001-00135	Biofilter	2002	PEACEFUL MEADOW LN	sfr
033030349070	Septic System Known / Required Inspection Current	SOM2009-14025	SEP96-00336	Pressure	2000	SEVENTH AVE	sfr
033030430020	Septic System Known / Required Inspection Current	SOM2009-14034	SEP73-07198	Conventional	1974	HAPPY VALLEY RD	sfr
033030439010	Septic System Known / Required Inspection Current	SOM2009-14052	SEP2011-00005	Biofilter	2011	THIRD AVE	mh
033030440070	Septic System Known / Required Inspection Current	SOM2005-00080	SEP2010-00090	Biofilter	2010	ECHO LN	mh
033031129140	Septic System Known / Required Inspection Current	SOM2009-14054	SEP97-00245	Conventional	1997	OSPREY GLEN RD	sfr
033031129160	Septic System Known / Required Inspection Current	SOM2004-00197	SEP2003-00415	Biofilter	2004	OSPREY GLEN RD	sfr
033031131100	Septic System Known / Required Inspection Current	SOM2009-14144	SEP2000-00339	Mound	2001	OSPREY GLEN RD	sfr
033031501300	Septic System Known / Required Inspection Current	SOM2009-14166	SEP2001-00331	Biofilter	2002	MCFARLAND DR	mh
033031501650	Septic System Known / Required Inspection Current	SOM2005-00078	SEP2011-00025	Mound	2011	BELLWAY RD	sfr
033031503100	Septic System Known / Required Inspection Current	SOM2005-00015	SEP92-00524	Pressure	1993	HAPPY VALLEY RD	mh
033031510400	Septic System Known / Required Inspection Current	SOM2011-00067	SEP2003-00201	Biofilter	2004	MCFARLAND DR	sfr
033032130060	Septic System Known / Required Inspection Current	SOM2006-00028	SEP2002-00280	ATU	2003	HILLSIDE DR	sfr
033032229110	Septic System Known / Required Inspection Current	SOM2009-14236	SEP83-00058	Conventional	1984	SPRINGWATER LN	vac
033032230090	Septic System Known / Required Inspection Current	SOM2009-14237	SEP99-00161	ATU	2001	BELL CREEK LN	mh
033032239070	Septic System Known / Required Inspection Current	SOM2012-00050	SEP94-00050	Pressure	1994	HAPPY VALLEY RD	sfr
033032239080	Septic System Known / Required Inspection Current	SOM2008-00006	SEP90-00098	Conventional	1990	DOE RUN RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033033110250	Septic System Known / Required Inspection Current	SOM2009-00055	SEP2012-00013	Biofilter	2012	HAPPY VALLEY RD	vac
033033129050	Septic System Known / Required Inspection Current	SOM2009-14338	SEP2008-00033	Biofilter	2008	HEREFORD LN	sfr
033033140030	Septic System Known / Required Inspection Current	SOM2004-00157	SEP97-00280	ATU	2001	HAPPY VALLEY RD	sfr
033033210010	Septic System Known / Required Inspection Current	SOM2004-00148	SEP87-00314	Conventional	1988	COUGAR CREST RD	res_u
033033210020	Septic System Known / Required Inspection Current	SOM2005-00052	SEP2003-00447	Biofilter	2005	COUGAR CREST RD	sfr
033033210030	Septic System Known / Required Inspection Current	SOM2005-00047	SEP2001-00338	ATU	2004	COUGAR CREST RD	sfr
033033219020	Septic System Known / Required Inspection Current	SOM2004-00004	SEP2002-00106	Biofilter	2003	CHELSAMISH DR	sfr
033033219040	Septic System Known / Required Inspection Current	SOM2009-14350	SEP2001-00032	Biofilter	2002	CHELSAMISH DR	sfr
033033219070	Septic System Known / Required Inspection Current	SOM2005-00070	SEP2001-00409	Biofilter	2002	CHELSAMISH DR	sfr
033033230120	Septic System Known / Required Inspection Current	SOM2009-00029	SEP76-02514	Conventional	1976	MORGAN DR	sfr_tmbr
033033249030	Septic System Known / Required Inspection Current	SOM2004 00216	SEP2001-00080	ATU	2004	CHELSAMISH DR	sfr
033033500020	Septic System Known / Required Inspection Current	SOM2009-14395	SEP2003-00465	ATU	2004	LANDGROVE LN	mh
033034110050	Septic System Known / Required Inspection Current	SOM2009-14400	SEP2001-00102	ATU	2001	SEQUIM BAY RD	sfr
033034120030	Septic System Known / Required Inspection Current	SOM2009-14401	SEP75-00750	Conventional	1976	SEQUIM BAY RD	sfr
033034129050	Septic System Known / Required Inspection Current	SOM2009-14406	SEP89-00124	Conventional	1990	SEQUIM BAY RD	sfr
033034129060	Septic System Known / Required Inspection Current	SOM2009-14410	SEP89-00123	Conventional	1990	SEQUIM BAY RD	sfr
033034140134	Septic System Known / Required Inspection Current	SOM2011-00078	SEP2011-00160	Biofilter	2011	SEQUIM BAY RD	sfr
033034220070	Septic System Known / Required Inspection Current	SOM2009-14413	SEP2005-00523	Mound	2007	CHRISTOPHER LN	sfr
033034230100	Septic System Known / Required Inspection Current	SOM2009-14416	SEP2011-00014	Biofilter	2011	MARSHALL RD	res_u
033034239020	Septic System Known / Required Inspection Current	SOM2009-16915	SEP2005-00226	Pressure	2006	PALO ALTO RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033034239050	Septic System Known / Required Inspection Current	SOM2009-16980	SEP94-00291	Pressure	1994	PALO ALTO RD	sfr
043012430300	Septic System Known / Required Inspection Current	SOM2009-16982	SEP2011-00089	Conventional	2011	ROBBINS RD	mh
043013119110	Septic System Known / Required Inspection Current	SOM2012-00077	SEP79-00185	Conventional	1979	MOLENDA LN	mh
043013129000	Septic System Known / Required Inspection Current	SOM2009-16992	SEP90-00622	Conventional	1992	ROBBINS RD	sfr
043013129010	Septic System Known / Required Inspection Current	SOM2009-16993	SEP2011-00228	Conventional	2012	ROBBINS RD	vac
043013130400	Septic System Known / Required Inspection Current	SOM2009-17002	SEP72-07192	Conventional	1973	HUDON RD	sfr
043013139010	Septic System Known / Required Inspection Current	SOM2009-17009	SEP79-00634	Conventional	1979	HUDON RD	mh
043013139120	Septic System Known / Required Inspection Current	SOM2009-17012	SEP80-00575	Conventional	1980	SCOTT DR	mh
043013139240	Septic System Known / Required Inspection Current	SOM2009-17025	SEP90-00323	Conventional	1990	SCOTT DR	mh
043013139280	Septic System Known / Required Inspection Current	SOM2009-17046	SEP95-00026	Conventional	1995	SCOTT DR	sfr
043013149070	Septic System Known / Required Inspection Current	SOM2012-00093	SEP95-00189	Sand Line Pressure	1995	LOTUS LN	sfr
043013229030	Septic System Known / Required Inspection Current	SOM2009-17065	SEP79-00730	Conventional	1979	MCCOMB RD	mh_ag
043013230020	Septic System Known / Required Inspection Current	SOM2011-00325	SEP2012-00061	Conventional	2012	RIVERVIEW DR	vac
043013249050	Septic System Known / Required Inspection Current	SOM2009-17079	SEP79-03531	Conventional	1979	MCCOMB LN	mh
043013249150	Septic System Known / Required Inspection Current	SOM2009-17094	SEP2011-00042	Conventional	2012	MCCOMB LN	vac
043013319030	Septic System Known / Required Inspection Current	SOM2009-17096	SEP92-00166	Conventional	1994	STONE RD	sfr
043013339020	Septic System Known / Required Inspection Current	SOM2009-17103	SEP94-00030	Conventional	1994	APPLEGATE LN	sfr
043013339045	Septic System Known / Required Inspection Current	SOM2009-17108	SEP78-04678	Conventional	1978	APPLEGATE LN	sfr
043013339160	Septic System Known / Required Inspection Current	SOM2009-17114	SEP89-NP083	Conventional	1968	HENDRICKSON RD	sfr
043013340015	Septic System Known / Required Inspection Current	SOM2009-17123	SEP2002-00489	Conventional	2003	HENDRICKSON RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013349050	Septic System Known / Required Inspection Current	SOM2009-17130	SEP92-00388	Sand Line Pressure	1993	HENDRICKSON RD	sfr
043013349180	Septic System Known / Required Inspection Current	SOM2009-17132	SEP85-00155	Conventional	1985	LOIS LN	mh
043013410125	Septic System Known / Required Inspection Current	SOM2009-17137	SEP69-01631	Conventional	1969	WILLIAMSON RD	sfr
043013410225	Septic System Known / Required Inspection Current	SOM2009-17158	SEP2010-00077	Conventional	2011	WILLIAMSON RD	sfr
043013419010	Septic System Known / Required Inspection Current	SOM2009-17173	SEP83-00230	Conventional	1983	KENDALL RD	sfr
043013429000	Septic System Known / Required Inspection Current	SOM2009-17177	SEP76-08347	Conventional	1976	STONE RD	sfr
043013429160	Septic System Known / Required Inspection Current	SOM2009-17178	SEP77-01646	Conventional	1978	STONE RD	sfr
043013429200	Septic System Known / Required Inspection Current	SOM2009-17180	SEP88-00482	Conventional	1988	WILLIAMSON RD	sfr
043013429210	Septic System Known / Required Inspection Current	SOM2009-17190	SEP89-00308	Conventional	1990	WILLIAMSON RD	sfr
043013429230	Septic System Known / Required Inspection Current	SOM2009-17195	SEP73-06846	Conventional	1973	WILLIAMSON RD	sfr
043013430350	Septic System Known / Required Inspection Current	SOM2011-00291	SEP73-12562	Conventional	1974	WRIGHT RD	sfr
043013439090	Septic System Known / Required Inspection Current	SOM2009-17211	SEP2002-00459	Sand Line Pressure	2003	WRIGHT RD	sfr
043013449000	Septic System Known / Required Inspection Current	SOM2009-17212	SEP2010-00124	Sand Line Pressure	2012	WRIGHT RD	vac
043013449080	Septic System Known / Required Inspection Current	SOM2009-17225	SEP87-00036	Pressure	1987	WRIGHT LN	sfr
043013449090	Septic System Known / Required Inspection Current	SOM2009-17227	SEP81-00319	Conventional	1982	KENDALL RD	sfr
043013449260	Septic System Known / Required Inspection Current	SOM2009-17228	SEP95-00504	Sand Line Pressure	1996	HENDRICKSON RD	sfr
043013500000	Septic System Known / Required Inspection Current	SOM2009-17239	SEP76-07264	Conventional	1978	BEESON RD	sfr
043013500010	Septic System Known / Required Inspection Current	SOM2009-17261	SEP72-09165	Conventional	1972	BEESON RD	sfr
043013500170	Septic System Known / Required Inspection Current	SOM2009-17262	SEP76-03659	Conventional	1976	MANTLE RD	sfr
043013540010	Septic System Known / Required Inspection Current	SOM2009-17263	SEP96-00265	Pressure	1996	BIG SKY LN	mh

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013540020	Septic System Known / Required Inspection Current	SOM2009-17264	SEP97-00059	Conventional	1999	BIG SKY LN	mh
043013540030	Septic System Known / Required Inspection Current	SOM2009-17267	SEP97-00015	Conventional	1998	BIG SKY LN	mh
043013540040	Septic System Known / Required Inspection Current	SOM2009-17396	SEP97-00087	Conventional	1997	BIG SKY LN	mh
043013540070	Septic System Known / Required Inspection Current	SOM2009-18888	SEP99-00078	Conventional	2000	BIG SKY LN	mh
043014419000	Septic System Known / Required Inspection Current	SOM2009-18896	SEP96-00400	Sand Line Pressure	1999	APPLEGATE LN	sfr
043024129020	Septic System Known / Required Inspection Current	SOM2009-18898	SEP76-03743	Conventional	1976	PRIEST RD	sfr
043024129100	Septic System Known / Required Inspection Current	SOM2009-18911	SEP88-00440	Pressure	1989	PRIEST RD	mh
043024129130	Septic System Known / Required Inspection Current	SOM2009-18931	SEP73-02632	Conventional	1974	PRIEST LN	sfr
043024219060	Septic System Known / Required Inspection Current	SOM2009-18932	SEP77-02886	Conventional	1977	PRIEST LN	sfr
043024229070	Septic System Known / Required Inspection Current	SOM2009-18940	SEP87-00310	Conventional	1987	GREEN BRIAR LN	mh
043024229080	Septic System Known / Required Inspection Current	SOM2009-18955	SEP87-00343	Conventional	1987	GREEN BRIAR LN	mh
043024239030	Septic System Known / Required Inspection Current	SOM2009-18972	SEP81-00291	Conventional	1982	PATRICIA LN	mh
043024329040	Septic System Known / Required Inspection Current	SOM2009-18997	SEP90-00660	Conventional	1991	GRACE LN	sfr
043024349140	Septic System Known / Required Inspection Current	SOM2009-18998	SEP85-00061	Conventional	1985	NARROW WAY	mh
043024500010	Septic System Known / Required Inspection Current	SOM2009-19011	SEP75-08063	Conventional	1975	OAK CT	sfr
043024500020	Septic System Known / Required Inspection Current	SOM2009-19012	SEP76-02901	Conventional	1976	OAK CT	sfr
043024510010	Septic System Known / Required Inspection Current	SOM2009-19015	SEP77-10477	Conventional	1978	SPRUCE CT	sfr
043024510020	Septic System Known / Required Inspection Current	SOM2009-19016	SEP77-01987	Conventional	1977	SPRUCE CT	sfr
043024510050	Septic System Known / Required Inspection Current	SOM2009-19019	SEP77-02647	Conventional	1977	PALO VERDE LOOP	sfr
043024510060	Septic System Known / Required Inspection Current	SOM2009-19028	SEP77-21987	Conventional	1978	PALO VERDE LOOP	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024510190	Septic System Known / Required Inspection Current	SOM2009-19031	SEP76-01215	Conventional	1976	SPRUCE CT	sfr
043024510220	Septic System Known / Required Inspection Current	SOM2009-19038	SEP87-00112	Conventional	1987	PALO VERDE LOOP	sfr
043025110125	Septic System Known / Required Inspection Current	SOM2009-19049	SEP72-06732	Conventional	1973	VALLEY VIEW DR	sfr
043025119060	Septic System Known / Required Inspection Current	SOM2009-19056	SEP89-00350	Conventional	1990	QUIET PL	mh
043025120110	Septic System Known / Required Inspection Current	SOM2009-19067	SEP75-08972	Conventional	1975	RIVER RD	mh
043025130075	Septic System Known / Required Inspection Current	SOM2009-19073	SEP85-10018	Conventional	1985	RIVER RD	sfr
043025139120	Septic System Known / Required Inspection Current	SOM2007-00071	SEP89-00492	Conventional	1990	RIVER RD	sfr
043025139170	Septic System Known / Required Inspection Current	SOM2009-19080	SEP2002-00250	Sand Line Pressure	2002	JUANITA CT	sfr
043025139190	Septic System Known / Required Inspection Current	SOM2009-19082	SEP2002-00154	Sand Line Pressure	2002	JUANITA CT	sfr
043025139210	Septic System Known / Required Inspection Current	SOM2009-19090	SEP2002-00339	Sand Line Pressure	2003	JUANITA CT	sfr
043025149035	Septic System Known / Required Inspection Current	SOM2009-19093	SEP93-00097	Sand Line Pressure	1993	SILBERHORN RD	sfr
043025149060	Septic System Known / Required Inspection Current	SOM2009-19098	SEP87-00315	Conventional	1988	PHEASANT LN	sfr
043025149110	Septic System Known / Required Inspection Current	SOM2009-19100	SEP85-00119	Conventional	1986	PHEASANT LN	sfr
043025149130	Septic System Known / Required Inspection Current	SOM2009-19110	SEP90-00215	Conventional	1990	QUAIL LN	sfr
043025149350	Septic System Known / Required Inspection Current	SOM2009-00001	SEP84-00179	Sand Line Pressure	1986	PHEASANT LN	sfr
043025219170	Septic System Known / Required Inspection Current	SOM2009-19161	SEP92-00031	Sand Line Pressure	1992	RIVER RD	mh
043025229180	Septic System Known / Required Inspection Current	SOM2009-19187	SEP93-00426	Sand Line Pressure	1994	SILBERHORN RD	mh
043025240075	Septic System Known / Required Inspection Current	SOM2009-19205	SEP2010-00175	Sand Line Pressure	2010	SILBERHORN RD	mfr
043025249110	Septic System Known / Required Inspection Current	SOM2009-19225	SEP68-17740	Conventional	1968	SILBERHORN RD	sfr
043025310475	Septic System Known / Required Inspection Current	SOM2009-19231	SEP80-00063	Conventional	1982	SECOR RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025319080	Septic System Known / Required Inspection Current	SOM2009-19235	SEP93-00200	Sand Line Pressure	1993	LORRAINE DR	vac
043025319120	Septic System Known / Required Inspection Current	SOM2009-19241	SEP77-02116	Conventional	1977	DEERHAVEN DR	sfr
043025320150	Septic System Known / Required Inspection Current	SOM2011-00334	SEP74-35071	Conventional	1974	SECOR RD	sfr
043025329060	Septic System Known / Required Inspection Current	SOM2009-19252	SEP70-NP319	Conventional	1970	RIVERSIDE RD	sfr
043025329110	Septic System Known / Required Inspection Current	SOM2009-19256	SEP70-09403	Conventional	1970	TIMBERSIDE LN	mh
043025339010	Septic System Known / Required Inspection Current	SOM2009-19259	SEP76-07251	Conventional	1977	KANE LN	sfr
043025339060	Septic System Known / Required Inspection Current	SOM2009-00082	SEP2011-00230	Sand Line Pressure	2011	KANE LN	sfr
043025340150	Septic System Known / Required Inspection Current	SOM2009-19274	SEP2009-NP082	Conventional	1959	SECOR RD	sfr
043025349010	Septic System Known / Required Inspection Current	SOM2009-19282	SEP78-03027	Conventional	1978	SECOR RD	sfr
043025419010	Septic System Known / Required Inspection Current	SOM2009-19289	SEP90-00133	Conventional	1991	QUAIL LN	sfr
043025419100	Septic System Known / Required Inspection Current	SOM2009-19297	SEP2008-00133	Pressure	2008	MOCKINGBIRD LN	sfr
043025419200	Septic System Known / Required Inspection Current	SOM2009-19302	SEP90-00069	Conventional	1991	FALCON RD	sfr
043025420100	Septic System Known / Required Inspection Current	SOM2009-19308	SEP72-06376	Conventional	1972	RIVER RD	sfr
043025429060	Septic System Known / Required Inspection Current	SOM2009-19310	SEP65-NP895	Conventional	1965	RIVER RD	sfr
043025429090	Septic System Known / Required Inspection Current	SOM2009-19330	SEP2007-00042	Sand Line Pressure	2007	AVELLANA RD	sfr
043025520500	Septic System Known / Required Inspection Current	SOM2009-19343	SEP76-02162	Conventional	1976	VALLEY VIEW DR	sfr
043025521800	Septic System Known / Required Inspection Current	SOM2009-19352	SEP77-62240	Conventional	1977	COMET CT	sfr
043025522700	Septic System Known / Required Inspection Current	SOM2009-19358	SEP77-2240B	Conventional	1977	BURNT MOUNTAIN PL	sfr
043025523300	Septic System Known / Required Inspection Current	SOM2009-19372	SEP75-18200	Conventional	1975	BURNT MOUNTAIN PL	sfr
043025540090	Septic System Known / Required Inspection Current	SOM2009-19416	SEP94-00384	Sand Line Pressure	1994	SUMMERSET CT	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026140150	Septic System Known / Required Inspection Current	SOM2009-19494	SEP54-NP144	Conventional	1954	RIVERSIDE RD	sfr
043026440000	Septic System Known / Required Inspection Current	SOM2009-19498	SEP2000-00029	Conventional	2000	DUNGENESS MEADOWS	pub_os
043026500020	Septic System Known / Required Inspection Current	SOM2009-19505	SEP2001-00271	Conventional	2001	DUNGENESS MEADOWS	mh
043026500200	Septic System Known / Required Inspection Current	SOM2009-19509	SEP85-10040	Conventional	1986	DUNGENESS MEADOWS	mh
043026500260	Septic System Known / Required Inspection Current	SOM2009-19510	SEP2000-NP402	Conventional	1975	DUNGENESS MEADOWS	mh
043026500280	Septic System Known / Required Inspection Current	SOM2009-19545	SEP2000-00476	ATU	2001	DUNGENESS MEADOWS	mh
043026520360	Septic System Known / Required Inspection Current	SOM2009-19546	SEP72-09608	Conventional	1972	DUNGENESS MEADOWS	sfr
043026520380	Septic System Known / Required Inspection Current	SOM2009-19549	SEP78-05963	Conventional	1979	DUNGENESS MEADOWS	sfr
043026520440	Septic System Known / Required Inspection Current	SOM2009-19555	SEP91-00112	Conventional	1991	DUNGENESS MEADOWS	sfr
043026520560	Septic System Known / Required Inspection Current	SOM2009-19572	SEP68-72268	Pump to Gravity	1968	DUNGENESS MEADOWS	sfr
043026530000	Septic System Known / Required Inspection Current	SOM2009-19593	SEP77-04297	Tank Only	1978	DUNGENESS MEADOWS	sfr
043026530250	Septic System Known / Required Inspection Current	SOM2009-19597	SEP75-09673	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530290	Septic System Known / Required Inspection Current	SOM2009-19605	SEP74-03679	Conventional	1974	DUNGENESS MEADOWS	sfr
043026530370	Septic System Known / Required Inspection Current	SOM2009-19606	SEP74-02850	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530380	Septic System Known / Required Inspection Current	SOM2009-19616	SEP73-06771	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530500	Septic System Known / Required Inspection Current	SOM2009-19651	sep2007-00071	Pressure	2007	DUNGENESS MEADOWS	sfr
043026540030	Septic System Known / Required Inspection Current	SOM2009-19652	SEP80-00256	Conventional	1980	DUNGENESS MEADOWS	sfr
043026540045	Septic System Known / Required Inspection Current	SOM2009-19654	SEP2008-00122	Pressure	2008	DUNGENESS MEADOWS	sfr
043026540075	Septic System Known / Required Inspection Current	SOM2009-19661	SEP2010-00036	Sand Line Pressure	2010	DUNGENESS MEADOWS	sfr
043026540210	Septic System Known / Required Inspection Current	SOM2009-19671	SEP78-03585	Conventional	1978	DUNGENESS MEADOWS	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026540360	Septic System Known / Required Inspection Current	SOM2009-19678	SEP77-11466	Conventional	1977	DUNGENESS MEADOWS	sfr
043026540465	Septic System Known / Required Inspection Current	SOM2009-19681	SEP70-NP419	Conventional	1970	DUNGENESS MEADOWS	mh
043026540510	Septic System Known / Required Inspection Current	SOM2009-19683	SEP79-03665	Conventional	1979	DUNGENESS MEADOWS	mh
043026540540	Septic System Known / Required Inspection Current	SOM2009-19684	SEP76-08297	Conventional	1976	DUNGENESS MEADOWS	mh
043026540570	Septic System Known / Required Inspection Current	SOM2009-19686	SEP2000-00332	Conventional	2000	DUNGENESS MEADOWS	mh
043026540600	Septic System Known / Required Inspection Current	SOM2009-19695	SEP80-NP432	Conventional	1980	DUNGENESS MEADOWS	mh
043026540750	Septic System Known / Required Inspection Current	SOM2009-19697	SEP2007-NP257	Conventional	1970	DUNGENESS MEADOWS	mh
043026540765	Septic System Known / Required Inspection Current	SOM2011-00286	SEP88-02188	Conventional	1988	DUNGENESS MEADOWS	mh
043036119050	Septic System Known / Required Inspection Current	SOM2009-20094	SEP2011-00153	Biofilter	2012	HAPPY VALLEY RD	vac
043036129070	Septic System Known / Required Inspection Current	SOM2009-12606	SEP84-00167	Conventional	1984	MICHELLE LN	sfr
033015110000	Septic System Known / Required Inspection NOT Current	SOM2009-12608	SEP92-00352	Pressure	1992	PORT WILLIAMS RD	res_u_tmbr
033015220070	Septic System Known / Required Inspection NOT Current	SOM2009-12609	SEP96-00269	Sand Line Pressure	1996	SCHMUCK RD	sfr
033015230000	Septic System Known / Required Inspection NOT Current	SOM2009-12610	SEP2004-00172	Pressure	2007	COULTER RD	cml
033015230060	Septic System Known / Required Inspection NOT Current	SOM2009-12611	sep2011-np030	Conventional	1968	COULTER RD	sfr_tmbr
033016120040	Septic System Known / Required Inspection NOT Current	SOM2009-12612	SEP76-08007	Conventional	1970	HOLLAND RD	sfr
033016120060	Septic System Known / Required Inspection NOT Current	SOM2009-12613	SEP74-12641	Conventional	1974	PORT WILLIAMS RD	sfr
033016120085	Septic System Known / Required Inspection NOT Current	SOM2009-12614	SEP94-00365	Conventional	1994	PORT WILLIAMS RD	sfr
033016120100	Septic System Known / Required Inspection NOT Current	SOM2009-12615	SEP86-100057	Conventional	1986	PORT WILLIAMS RD	sfr_ag
033016129030	Septic System Known / Required Inspection NOT Current	SOM2009-12616	SEP2010-00054	Pressurized Deep Trench	2010	HOLLAND RD	sfr_ag
033016210035	Septic System Known / Required Inspection NOT Current	SOM2009-12617	SEP99-00294	Conventional	2000	PORT WILLIAMS RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033016210050	Septic System Known / Required Inspection NOT Current	SOM2009-12618	SEP75-09047	Conventional	1975	PORT WILLIAMS RD	mh
033016210070	Septic System Known / Required Inspection NOT Current	SOM2009-12621	SEP72-06148	Conventional	1972	PORT WILLIAMS RD	mh
033016219010	Septic System Known / Required Inspection NOT Current	SOM2009-12622	SEP90-00451	Conventional	1991	PORT WILLIAMS RD	sfr
033016219020	Septic System Known / Required Inspection NOT Current	SOM2009-12623	SEP88-00434	Conventional	1988	PORT WILLIAMS RD	mh
033016219030	Septic System Known / Required Inspection NOT Current	SOM2009-12624	SEP2000-00428	Sand Line Pressure	2001	PORT WILLIAMS RD	mh
033016219040	Septic System Known / Required Inspection NOT Current	SOM2009-12625	SEP88-00435	Conventional	1988	PORT WILLIAMS RD	sfr
033016219050	Septic System Known / Required Inspection NOT Current	SOM2009-12626	SEP89-00195	Conventional	1990	PORT WILLIAMS RD	sfr
033016219080	Septic System Known / Required Inspection NOT Current	SOM2009-12627	SEP90-00227	Pressure	1990	PORT WILLIAMS RD	mh
033016219100	Septic System Known / Required Inspection NOT Current	SOM2009-31448	sep80-01029	Conventional	1980	HOLLAND RD	sfr
033016219110	Septic System Known / Required Inspection NOT Current	SOM2009-12628	SEP2000-00039	Conventional	2005	HOLLAND RD	sfr
033016239010	Septic System Known / Required Inspection NOT Current	SOM2009-12629	SEP89-00594	Pressure	1989	JOHN SCOTT RD	sfr
033016239020	Septic System Known / Required Inspection NOT Current	SOM2009-12630	SEP94-00201	Conventional	1995	JOHN SCOTT RD	tmbr
033016239030	Septic System Known / Required Inspection NOT Current	SOM2009-12631	SEP 78-03555	Conventional	1979	PORT WILLIAMS RD	sfr
033016249020	Septic System Known / Required Inspection NOT Current	SOM2009-12633	SEP77-01434	Conventional	1977	DELTA WY	sfr
033016249040	Septic System Known / Required Inspection NOT Current	SOM2009-12636	SEP89-00132	Pressure	1990	DELTA WY	mh
033016249070	Septic System Known / Required Inspection NOT Current	SOM2009-12637	SEP90-00477	Conventional	1992	JOHN SCOTT RD	sfr
033016249090	Septic System Known / Required Inspection NOT Current	SOM2009-12638	SEP85-00040	Conventional	1985	DELTA WY	sfr
033016249110	Septic System Known / Required Inspection NOT Current	SOM2009-12639	SEP2005-00004	Pressure	2005	DELTA WY	sfr
033016249120	Septic System Known / Required Inspection NOT Current	SOM2009-12640	SEP87-00074	Conventional	1987	FARMVIEW RD	sfr
033016249130	Septic System Known / Required Inspection NOT Current	SOM2009-12641	SEP82-00240	Pump to Gravity	1984	FARMVIEW RD	sfr

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033016249140	Septic System Known / Required Inspection NOT Current	SOM2009-12642	SEP88-00323	Conventional	1989	FARMVIEW RD	sfr
033016249160	Septic System Known / Required Inspection NOT Current	SOM2009-12643	SEP89-00601	Pressure	1992	JOHN SCOTT RD	vac
033016249170	Septic System Known / Required Inspection NOT Current	SOM2009-12644	SEP87-00276	Pressure	1988	JOHN SCOTT RD	sfr
033016249180	Septic System Known / Required Inspection NOT Current	SOM2009-12645	SEP93-00572	Conventional	1994	FARMVIEW RD	mh
033016249190	Septic System Known / Required Inspection NOT Current	SOM2009-12647	SEP94-00411	Pressure	1994	DELTA WY	sfr
033016249210	Septic System Known / Required Inspection NOT Current	SOM2009-12648	SEP93-00127	Conventional	1994	PORT WILLIAMS RD	sfr
033016249220	Septic System Known / Required Inspection NOT Current	SOM2009-12649	SEP83-00217	Conventional	1984	PORT WILLIAMS RD	sfr
033016249230	Septic System Known / Required Inspection NOT Current	SOM2009-12650	SEP94-00188	Conventional	1994	FARMVIEW RD	sfr
033016249240	Septic System Known / Required Inspection NOT Current	SOM2009-12653	SEP2004-00245	Conventional	2004	PORT WILLIAMS RD	mh
033016339020	Septic System Known / Required Inspection NOT Current	SOM2009-12651	SEP84-00062	Conventional	1984	BELL MEADOW LN	sfr
033016339040	Septic System Known / Required Inspection NOT Current	SOM2009-12652	SEP74-02628	Conventional	1974	BELL MEADOW LANE	sfr
033016339050	Septic System Known / Required Inspection NOT Current	SOM2009-12656	SEP78-04298	Conventional	1979	BELL MEADOW LANE	sfr
033017120020	Septic System Known / Required Inspection NOT Current	SOM2009-12657	SEP81-10006	Conventional	1982	HARRIETTE LN	sfr
033017120040	Septic System Known / Required Inspection NOT Current	SOM2009-12658	SEP76-07275	Conventional	1978	HARRIETTE LN	sfr
033017120060	Septic System Known / Required Inspection NOT Current	SOM2009-12659	SEP73-07199	Conventional	1973	HARRIETTE LN	sfr
033017120120	Septic System Known / Required Inspection NOT Current	SOM2009-12660	SEP83-10006	Conventional	1983	HARRIETTE LN	sfr
033017120140	Septic System Known / Required Inspection NOT Current	SOM2009-12662	SEP2000-NP106	Conventional	1965	HARRIETTE LN	sfr
033017130000	Septic System Known / Required Inspection NOT Current	SOM2009-12666	SEP92-00175	Conventional	1992	PORT WILLIAMS RD	
033017229020	Septic System Known / Required Inspection NOT Current	SOM2009-12667	SEP90-00146	Conventional	1991	IOKA RD	sfr
033017229030	Septic System Known / Required Inspection NOT Current	SOM2009-12668	SEP80-00139	Conventional	1981	IOKA RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017229040	Septic System Known / Required Inspection NOT Current	SOM2009-12669	SEP78-04113	Conventional	1978	IOKA RD	sfr
033017229050	Septic System Known / Required Inspection NOT Current	SOM2009-12670	SEP85-00006	Conventional	1985	IOKA RD	sfr
033017229060	Septic System Known / Required Inspection NOT Current	SOM2009-12671	SEP79-03604	Conventional	1979	IOKA RD	sfr
033017229070	Septic System Known / Required Inspection NOT Current	SOM2007-00029	SEP79-03624	Conventional	1979	IOKA RD	sfr
033017229080	Septic System Known / Required Inspection NOT Current	SOM2009-12674	SEP78-03479	Conventional	1978	MEDSKER RD	sfr
033017229100	Septic System Known / Required Inspection NOT Current	SOM2009-12675	SEP82-00034	Conventional	1982	IOKA RD	sfr
033017229110	Septic System Known / Required Inspection NOT Current	SOM2009-12677	SEP84-00278	Conventional	1984	IOKA RD	sfr
033017229130	Septic System Known / Required Inspection NOT Current	SOM2009-12678	SEP78-03480	Conventional	1978	IOKA RD	sfr
033017229140	Septic System Known / Required Inspection NOT Current	SOM2009-12679	SEP77-01289	Conventional	1978	IOKA RD	sfr
033017229150	Septic System Known / Required Inspection NOT Current	SOM2009-12682	SEP78-03508	Conventional	1981	IOKA RD	sfr
033017239010	Septic System Known / Required Inspection NOT Current	SOM2009-12683	SEP2001-00004	Sand Line Pressure	2003	JESSLYN LN	sfr
033017239030	Septic System Known / Required Inspection NOT Current	SOM2009-12684	SEP92-00128	Pressure	1996	JESSLYN LN	mfr
033017239050	Septic System Known / Required Inspection NOT Current	SOM2009-12685	SEP98-00267	Sand Line Pressure	1998	JESSLYN LN	sfr
033017239060	Septic System Known / Required Inspection NOT Current	SOM2009-12686	SEP90-00457	Conventional	1991	JESSLYN LN	sfr
033017239070	Septic System Known / Required Inspection NOT Current	SOM2009-12687	SEP94-00470	Sand Line Pressure	1995	JESSLYN LN	sfr
033017239090	Septic System Known / Required Inspection NOT Current	SOM2009-12688	SEP96-00186	Sand Line Pressure	1996	JESSLYN LN	sfr
033017310080	Septic System Known / Required Inspection NOT Current	SOM2009-12689	SEP92-00210	Conventional	1992	BROWN RD	sfr
033017310100	Septic System Known / Required Inspection NOT Current	SOM2009-12693	SEP88-00095	Conventional	1989	BROWN RD	sfr
033017329010	Septic System Known / Required Inspection NOT Current	SOM2009-12694	SEP76-03181	Conventional	1976	GIERIN CREEK LN	sfr
033017329020	Septic System Known / Required Inspection NOT Current	SOM2009-12695	SEP2002-00221	Pressure	2003	GIERIN CREEK LN	sfr

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033017329030	Septic System Known / Required Inspection NOT Current	SOM2009-12696	SEP79-08232	Conventional	1979	GIERIN CREEK LN	sfr
033017329040	Septic System Known / Required Inspection NOT Current	SOM2009-12697	SEP87-00288	Pressure	1988	GIERIN CREEK LN	mh
033017329050	Septic System Known / Required Inspection NOT Current	SOM2009-12698	SEP84-00128	Conventional	1986	GIERIN CREEK LN	mh
033017329060	Septic System Known / Required Inspection NOT Current	SOM2009-12699	SEP2004-00056	Sand Line Pressure	2004	GIERIN CREEK LN	sfr
033017329070	Septic System Known / Required Inspection NOT Current	SOM2009-12700	SEP81-00288	Conventional	1992	GIERIN CREEK LN	mh
033017330010	Septic System Known / Required Inspection NOT Current	SOM2009-12701	SEP91-00285	Conventional	1991	SEQUIM DUNGENESS	sfr_ag
033017330100	Septic System Known / Required Inspection NOT Current	SOM2009-12702	SEP84-10036	Conventional	1984	HENDRICKSON RD	sfr
033017330110	Septic System Known / Required Inspection NOT Current	SOM2009-12703	SEP74-02982	Conventional	1974	HENDRICKSON RD	sfr
033017330120	Septic System Known / Required Inspection NOT Current	SOM2009-12704	SEP80-00285	Conventional	1981	HENDRICKSON RD	sfr
033017340300	Septic System Known / Required Inspection NOT Current	SOM2009-12705	SEP92-00011	Pressure	1992	GREY FOX RD	sfr
033017349020	Septic System Known / Required Inspection NOT Current	SOM2009-12706	SEP2006-00423	Sand Line Pressure	2007	GREY FOX RD	sfr
033017349040	Septic System Known / Required Inspection NOT Current	SOM2009-12707	SEP87-00006	Pressure	1988	GREY FOX RD	sfr
033017349050	Septic System Known / Required Inspection NOT Current	SOM2009-12708	SEP94-00460	Pressure	1994	GLACIER VIEW DR	sfr
033017349060	Septic System Known / Required Inspection NOT Current	SOM2009-12709	SEP96-00113	Sand Line Pressure	1996	GLACIER VIEW DR	sfr
033017349070	Septic System Known / Required Inspection NOT Current	SOM2009-12710	SEP2004-00103	Sand Line Pressure	2004	GLACIER VIEW DR	sfr
033017349080	Septic System Known / Required Inspection NOT Current	SOM2009-12711	SEP92-00523	Sand Line Pressure	1993	GLACIER VIEW DR	sfr
033017349090	Septic System Known / Required Inspection NOT Current	SOM2009-12712	SEP2001-00099	Pressure	2001	GLACIER VIEW DR	sfr
033017349105	Septic System Known / Required Inspection NOT Current	SOM2009-12713	SEP79-00510	Conventional	1980	BROWN RD	sfr
033017349110	Septic System Known / Required Inspection NOT Current	SOM2009-12714	SEP92-00145	Sand Line Pressure	1993	GLACIER VIEW DR	sfr
033017349120	Septic System Known / Required Inspection NOT Current	SOM2009-12715	SEP90-00123	Sand Line Pressure	1990	GLACIER VIEW DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017349130	Septic System Known / Required Inspection NOT Current	SOM2009-12717	SEP2001-00205	Pressure	2002	GLACIER VIEW DR	sfr
033017349150	Septic System Known / Required Inspection NOT Current	SOM2009-12718	SEP2000-00444	Sand Line Pressure	2002	GREY FOX RD	sfr
033017349170	Septic System Known / Required Inspection NOT Current	SOM2009-12720	SEP99-00167	Pressure	2000	GREY FOX RD	sfr
033017349190	Septic System Known / Required Inspection NOT Current	SOM2009-12721	SEP94-00104	Pressure	1994	GLACIER VIEW DR	res_u
033017349200	Septic System Known / Required Inspection NOT Current	SOM2009-12723	SEP98-00080	Pressure	2000	GLACIER VIEW DR	sfr
033017349220	Septic System Known / Required Inspection NOT Current	SOM2009-12724	SEP2005-00463	Pressure	2006	GREY FOX RD	sfr
033017349230	Septic System Known / Required Inspection NOT Current	SOM2009-12725	SEP2006-00263	Pressurized Deep Trench	2008	GREY FOX RD	sfr
033017349250	Septic System Known / Required Inspection NOT Current	SOM2009-12727	SEP95-00069	Sand Line Pressure	1996	GREY FOX RD	sfr
033017510030	Septic System Known / Required Inspection NOT Current	SOM2009-12728	SEP2001-00197	Sand Line Pressure	2003	STONE FARM RD	sfr
033017510040	Septic System Known / Required Inspection NOT Current	SOM2009-12729	SEP2002-00195	Sand Line Pressure	2002	STONE FARM RD	sfr
033017510050	Septic System Known / Required Inspection NOT Current	SOM2009-12730	SEP2001-00361	Pressure	2002	STONE FARM RD	sfr
033017510060	Septic System Known / Required Inspection NOT Current	SOM2009-12731	SEP2002-00068	Pressure	2002	STONE FARM RD	sfr
033017510070	Septic System Known / Required Inspection NOT Current	SOM2009-12732	SEP2001-00148	Conventional	2001	JERSEY LN	sfr
033017510080	Septic System Known / Required Inspection NOT Current	SOM2009-12733	SEP2005-00504	Pressure	2007	JERSEY LN	sfr
033017510090	Septic System Known / Required Inspection NOT Current	SOM2009-12734	SEP2001-00156	Pressure	2002	JERSEY LN	sfr
033017510100	Septic System Known / Required Inspection NOT Current	SOM2009-12735	SEP2002-00028	Sand Line Pressure	2002	JERSEY LN	sfr
033017510110	Septic System Known / Required Inspection NOT Current	SOM2009-12736	SEP2001-00154	Conventional	2001	STACEY CT	sfr
033017510120	Septic System Known / Required Inspection NOT Current	SOM2009-12738	SEP2001-00368	Sand Line Pressure	2001	STACEY CT	sfr
033017510140	Septic System Known / Required Inspection NOT Current	SOM2009-12739	SEP2003-00059	Sand Line Pressure	2003	STONE FARM RD	sfr
033017510150	Septic System Known / Required Inspection NOT Current	SOM2009-12740	SEP2001-00123	Pressure	2002	STONE FARM RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017520010	Septic System Known / Required Inspection NOT Current	SOM2009-12741	SEP2000-00400	Sand Line Pressure	2001	VALLEY FARM CT	sfr
033017520020	Septic System Known / Required Inspection NOT Current	SOM2009-12743	SEP2000-00111	Sand Line Pressure	2000	VALLEY FARM CT	sfr
033017520040	Septic System Known / Required Inspection NOT Current	SOM2009-12744	SEP99-00029	Sand Line Pressure	2000	VALLEY FARM CT	sfr
033017520050	Septic System Known / Required Inspection NOT Current	SOM2009-31589	SEP2000-00382	Sand Line Pressure	2001	VALLEY FARM CT	sfr
033017520060	Septic System Known / Required Inspection NOT Current	SOM2009-12745	SEP2001-00039	Sand Line Pressure	2001	VALLEY FARM CT	sfr
033017520070	Septic System Known / Required Inspection NOT Current	SOM2009-12746	SEP99-00171	Sand Line Pressure	2000	VALLEY FARM CT	sfr
033017520080	Septic System Known / Required Inspection NOT Current	SOM2009-12747	SEP98-00147	Pressure	1999	VALLEY FARM CT	sfr
033017520090	Septic System Known / Required Inspection NOT Current	SOM2009-12748	SEP98-00407	Pressure	1999	VALLEY FARM CT	sfr
033017520100	Septic System Known / Required Inspection NOT Current	SOM2009-12749	SEP99-00159	Pressure	2000	VALLEY FARM CT	sfr
033017520160	Septic System Known / Required Inspection NOT Current	SOM2009-12750	SEP99-00455	Sand Line Pressure	2001	VALLEY FARM CT	sfr
033017520170	Septic System Known / Required Inspection NOT Current	SOM2009-12753	SEP91-00060	Conventional	1991	SEQUIM DUNGENESS WY	sfr
033018110030	Septic System Known / Required Inspection NOT Current	SOM2009-12754	SEP73-07735	Conventional	1973	SANFORD LN	sfr
033018110040	Septic System Known / Required Inspection NOT Current	SOM2009-12755	SEP76-02060	Conventional	1976	SANFORD LN	sfr
033018110060	Septic System Known / Required Inspection NOT Current	SOM2009-12756	SEP94-NP208	Conventional	1974	SANFORD LN	sfr
033018110070	Septic System Known / Required Inspection NOT Current	SOM2009-12757	SEP77-02538	Conventional	1977	SANFORD LN	sfr
033018110150	Septic System Known / Required Inspection NOT Current	SOM2009-12759	SEP96-00083	Sand Line Pressure	1996	SEQUIM DUNGENESS WY	pub_q
033018119040	Septic System Known / Required Inspection NOT Current	SOM2009-12760	SEP68-00102	Conventional	1969	SANFORD LN	sfr
033018119050	Septic System Known / Required Inspection NOT Current	SOM2009-12761	SEP79-00257	Conventional	1980	SANFORD LN	sfr
033018119100	Septic System Known / Required Inspection NOT Current	SOM2009-12762	SEP88-00459	Conventional	1989	RAINVIEW LN	sfr
033018119110	Septic System Known / Required Inspection NOT Current	SOM2009-12763	SEP90-00181	Conventional	1991	RAINVIEW LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018119120	Septic System Known / Required Inspection NOT Current	SOM2009-12764	SEP81-00234	Conventional	1982	RAINVIEW LN	sfr
033018119130	Septic System Known / Required Inspection NOT Current	SOM2009-12765	SEP90-00596	Conventional	1991	RAINVIEW LN	sfr
033018119140	Septic System Known / Required Inspection NOT Current	SOM2009-12766	SEP94-00093	Conventional	1994	SANFORD LN	sfr
033018119150	Septic System Known / Required Inspection NOT Current	SOM2009-12767	SEP94-00094	Conventional	1995	SANFORD LN	sfr
033018119160	Septic System Known / Required Inspection NOT Current	SOM2009-12768	SEP92-00359	Pressure	1994	SANFORD LN	sfr
033018119170	Septic System Known / Required Inspection NOT Current	SOM2009-12769	SEP92-00360	Pressure	1993	SEQUIM DUNGENESS WY	sfr
033018119180	Septic System Known / Required Inspection NOT Current	SOM2009-12770	SEP90-00784	Conventional	1992	SANFORD LN	sfr
033018119190	Septic System Known / Required Inspection NOT Current	SOM2009-12771	SEP90-00785	Conventional	1991	SANFORD LN	sfr
033018119200	Septic System Known / Required Inspection NOT Current	SOM2009-12773	SEP90-00786	Conventional	1992	SANFORD LN	sfr
033018129010	Septic System Known / Required Inspection NOT Current	SOM2009-12774	SEP2000-00068	Conventional	2000	PLUM TREE LN	sfr
033018129020	Septic System Known / Required Inspection NOT Current	SOM2009-12775	SEP2000-00085	Conventional	2000	PLUM TREE LN	sfr
033018129030	Septic System Known / Required Inspection NOT Current	SOM2009-12778	SEP86-00015	Conventional	1986	PLUM TREE LN	sfr
033018129060	Septic System Known / Required Inspection NOT Current	SOM2009-12779	SEP87-00261	Conventional	1988	PLUM TREE LN	sfr
033018129090	Septic System Known / Required Inspection NOT Current	SOM2009-12780	SEP94-00033	Sand Line Pressure	1994	PLUM TREE LN	sfr
033018129100	Septic System Known / Required Inspection NOT Current	SOM2009-12781	SEP92-00554	Conventional	1993	PLUM TREE LN	sfr
033018129110	Septic System Known / Required Inspection NOT Current	SOM2009-12782	SEP95-00158	Conventional	1996	PLUM TREE LN	sfr
033018129130	Septic System Known / Required Inspection NOT Current	SOM2009-12783	SEP95-00212	Conventional	1996	PLUM TREE LN	vac
033018129140	Septic System Known / Required Inspection NOT Current	SOM2009-12786	SEP2001-00012	Sand Line Pressure	2002	PLUM TREE LN	sfr
033018129170	Septic System Known / Required Inspection NOT Current	SOM2009-12787	SEP94-00263	Sand Line Pressure	1994	PLUM TREE LN	sfr
033018129180	Septic System Known / Required Inspection NOT Current	SOM2009-12788	SEP99-00562	Conventional	2000	PLUM TREE LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018129200	Septic System Known / Required Inspection NOT Current	SOM2009-12789	SEP2000-00084	Conventional	2000	COVINGTON CT	sfr
033018129210	Septic System Known / Required Inspection NOT Current	SOM2009-12790	SEP2000-00419	Sand Line Pressure	2001	COVINGTON CT	sfr
033018129220	Septic System Known / Required Inspection NOT Current	SOM2009-12791	SEP2000-00466	Sand Line Pressure	2002	COVINGTON CT	sfr
033018129230	Septic System Known / Required Inspection NOT Current	SOM2009-12792	SEP99-00481	Sand Line Pressure	2001	COVINGTON CT	sfr
033018129240	Septic System Known / Required Inspection NOT Current	SOM2009-12793	SEP2001-00406	Pressure	2002	COVINGTON CT	sfr
033018129250	Septic System Known / Required Inspection NOT Current	SOM2009-12794	SEP96-00332	Sand Line Pressure	1996	COVINGTON CT	vac
033018129260	Septic System Known / Required Inspection NOT Current	SOM2009-12795	SEP2002-00173	Sand Line Pressure	2002	COVINGTON CT	sfr
033018149030	Septic System Known / Required Inspection NOT Current	SOM2009-12796	SEP86-00119	Conventional	1986	CROWNVIEW LN	mfr
033018149050	Septic System Known / Required Inspection NOT Current	SOM2009-12797	SEP78-04938	Conventional	1978	OLD OLYMPIC HWY	sfr
033018149060	Septic System Known / Required Inspection NOT Current	SOM2009-12800	SEP77-02737	Conventional	1977	CROWNVIEW LN	sfr
033018149130	Septic System Known / Required Inspection NOT Current	SOM2009-12801	SEP86-00002	Conventional	1986	CROWNVIEW LN	sfr
033018149140	Septic System Known / Required Inspection NOT Current	SOM2009-12802	SEP86-00064	Conventional	1986	CROWNVIEW LN	sfr
033018149150	Septic System Known / Required Inspection NOT Current	SOM2009-12804	SEP86-00203	Conventional	1987	CROWNVIEW LN	sfr
033018149170	Septic System Known / Required Inspection NOT Current	SOM2009-12805	SEP81-00057	Conventional	1981	CROWNVIEW LN	mfr
033018149180	Septic System Known / Required Inspection NOT Current	SOM2009-12806	SEP78-05880	Conventional	1979	OLD OLYMPIC HWY	sfr
033018149300	Septic System Known / Required Inspection NOT Current	SOM2009-12808	SEP92-00006	Sand Line Pressure	1992	OLD OLYMPIC HWY	sfr
033018210025	Septic System Known / Required Inspection NOT Current	SOM2009-12809	SEP77-01006	Conventional	1977	EVANS RD	sfr
033018219000	Septic System Known / Required Inspection NOT Current	SOM2009-12811	SEP77-14359	Conventional	1977	MARIAN WY	vac
033018219060	Septic System Known / Required Inspection NOT Current	SOM2009-12812	SEP89-00237	Conventional	1989	MARIAN WY	os
033018219100	Septic System Known / Required Inspection NOT Current	SOM2009-12813	SEP82-00230	Conventional	1982	EVANS RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018220020	Septic System Known / Required Inspection NOT Current	SOM2009-12814	SEP69-01120	Conventional	1969	MAC LN	sfr
033018220030	Septic System Known / Required Inspection NOT Current	SOM2009-12815	SEP2010-00109	Sand Line Pressure	2010	MAC LN	mh
033018220040	Septic System Known / Required Inspection NOT Current	SOM2009-12816	SEP69-01480	Conventional	1969	MAC LN	sfr
033018220050	Septic System Known / Required Inspection NOT Current	SOM2009-12817	SEP86-10045	Conventional	1986	HOUSE RD	mh
033018220060	Septic System Known / Required Inspection NOT Current	SOM2009-12818	SEP2000-00304	Sand Line Pressure	2000	HOUSE RD	mh
033018220070	Septic System Known / Required Inspection NOT Current	SOM2009-12819	SEP70-00714	Conventional	1970	FITZGERALD RD	mh
033018220090	Septic System Known / Required Inspection NOT Current	SOM2009-12820	SEP77-04494	Conventional	1977	FITZGERALD RD	sfr
033018220120	Septic System Known / Required Inspection NOT Current	SOM2009-12821	SEP76-02085	Conventional	1976	HOUSE RD	sfr
033018220130	Septic System Known / Required Inspection NOT Current	SOM2009-12822	SEP82-10073	Conventional	1982	HOUSE RD	sfr
033018220140	Septic System Known / Required Inspection NOT Current	SOM2009-12823	SEP76-08326	Conventional	1976	HOUSE RD	sfr
033018220170	Septic System Known / Required Inspection NOT Current	SOM2009-12825	sep2002-np001	Conventional	1980	FITZGERALD RD	sfr
033018220190	Septic System Known / Required Inspection NOT Current	SOM2009-12826	SEP2010-00198	Sand Line Pressure	2010	FITZGERALD RD	mh
033018220200	Septic System Known / Required Inspection NOT Current	SOM2009-12827	SEP94-NP158	Conventional	1970	FITZGERALD RD	sfr
033018220210	Septic System Known / Required Inspection NOT Current	SOM2009-12828	SEP74-03199	Conventional	1974	HOUSE RD	mh
033018220220	Septic System Known / Required Inspection NOT Current	SOM2009-12830	SEP74-03875	Conventional	1974	HOUSE RD	mh
033018220250	Septic System Known / Required Inspection NOT Current	SOM2009-12831	SEP72-06515	Conventional	1973	FITZGERALD RD	sfr
033018229010	Septic System Known / Required Inspection NOT Current	SOM2009-12832	SEP90-00417	Pressure	1990	MAC LN	mh
033018229020	Septic System Known / Required Inspection NOT Current	SOM2009-12833	SEP90-00359	Pressure	1991	MAC LN	mh
033018229030	Septic System Known / Required Inspection NOT Current	SOM2009-12834	SEP90-00487	Pressure	1990	MAC LN	mh
033018229040	Septic System Known / Required Inspection NOT Current	SOM2009-12836	SEP90-00391	Pressure	1990	MAC LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018229070	Septic System Known / Required Inspection NOT Current	SOM2009-12838	SEP98-00485	Conventional	1999	HOUSE RD	mh
033018230040	Septic System Known / Required Inspection NOT Current	SOM2009-12839	SEP70-08243	Conventional	1970	HOUSE RD	mh
033018230080	Septic System Known / Required Inspection NOT Current	SOM2009-12840	SEP73-07109	Conventional	1973	OLD OLYMPIC HWY	mh
033018230100	Septic System Known / Required Inspection NOT Current	SOM2009-12843	SEP70-08690	Conventional	1970	OLD OLYMPIC HWY	mh
033018230130	Septic System Known / Required Inspection NOT Current	SOM2009-12845	SEP68-00186	Conventional	1968	HOUSE RD	mh
033018230150	Septic System Known / Required Inspection NOT Current	SOM2009-12846	SEP94-00509	Sand Line Pressure	1994	LUND LN	mh
033018230160	Septic System Known / Required Inspection NOT Current	SOM2009-12847	SEP95-00383	Sand Line Pressure	1996	HOUSE RD	sfr
033018230165	Septic System Known / Required Inspection NOT Current	SOM2009-12848	SEP74-03085	Conventional	1974	HOUSE RD	mh
033018230170	Septic System Known / Required Inspection NOT Current	SOM2009-12849	SEP69-01514	Conventional	1969	LUND LN	mh
033018230180	Septic System Known / Required Inspection NOT Current	SOM2009-12850	SEP77-02558	Conventional	1977	LUND LN	sfr
033018230200	Septic System Known / Required Inspection NOT Current	SOM2009-12852	sep98-np128	Conventional	1970	OLD OLYMPIC HWY	mh
033018230250	Septic System Known / Required Inspection NOT Current	SOM2009-12854	SEP84-NP034	Conventional	0	OLD OLYMPIC HWY	cml
033018230280	Septic System Known / Required Inspection NOT Current	SOM2009-12855	SEP77-07359	Conventional	1977	OLD OLYMPIC HWY	sfr
033018230290	Septic System Known / Required Inspection NOT Current	SOM2009-12856	SEP73-07384	Conventional	1973	OLD OLYMPIC HWY	sfr
033018230320	Septic System Known / Required Inspection NOT Current	SOM2009-12857	SEP2003-00317	Sand Line Pressure	2004	DIANE DR	sfr
033018239010	Septic System Known / Required Inspection NOT Current	SOM2009-12858	SEP84-00034	Conventional	1984	SAMPSON CT	mh
033018239020	Septic System Known / Required Inspection NOT Current	SOM2009-12859	SEP86-00255	Pressure	1986	SAMPSON CT	mh
033018239030	Septic System Known / Required Inspection NOT Current	SOM2009-12860	SEP90-00485	Pressure	1991	SAMPSON CT	mh
033018239040	Septic System Known / Required Inspection NOT Current	SOM2009-12861	SEP90-00521	Sand Line Pressure	1992	SAMPSON CT	mh
033018239050	Septic System Known / Required Inspection NOT Current	SOM2010-00122	SEP85-00054	Conventional	1985	LUND LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018239060	Septic System Known / Required Inspection NOT Current	SOM2009-12864	SEP2009-00069	Sand Line Pressure	2009	OLD OLYMPIC HWY	mh
033018239080	Septic System Known / Required Inspection NOT Current	SOM2009-12865	sep87-np010	Conventional	0	OLD OLYMPIC HWY	sfr
033018239090	Septic System Known / Required Inspection NOT Current	SOM2009-12866	sep90-np349	Conventional	1970	HOUSE RD	mh
033018239100	Septic System Known / Required Inspection NOT Current	SOM2009-12867	SEP84-00376	Sand Line Pressure	1985	LUND LN	mh
033018239110	Septic System Known / Required Inspection NOT Current	SOM2009-12868	SEP89-00611	Pressure	1990	HOUSE RD	sfr
033018239120	Septic System Known / Required Inspection NOT Current	SOM2009-12869	SEP91-00159	Sand Line Pressure	1992	HOUSE RD	sfr
033018239130	Septic System Known / Required Inspection NOT Current	SOM2009-12870	SEP76-02616	Conventional	1976	LUND LN	mh
033018239140	Septic System Known / Required Inspection NOT Current	SOM2009-12871	SEP96-00084	Sand Line Pressure	1996	LUND LN	mh
033018239150	Septic System Known / Required Inspection NOT Current	SOM2009-12872	SEP95-00472	Sand Line Pressure	1995	LUND LN	sfr
033018249000	Septic System Known / Required Inspection NOT Current	SOM2009-12874	SEP75-01406	Conventional	1975	GOLD CT	mh
033018249020	Septic System Known / Required Inspection NOT Current	SOM2009-12875	SEP77-02823	Conventional	1977	GOLD CT	mh
033018249030	Septic System Known / Required Inspection NOT Current	SOM2009-12876	SEP77-04563	Conventional	1977	GOLD CT	mh
033018249040	Septic System Known / Required Inspection NOT Current	SOM2009-12878	SEP76-08325	Conventional	1976	EVANS RD	mh
033018249060	Septic System Known / Required Inspection NOT Current	SOM2009-12879	SEP78-04727	Conventional	1978	EVANS RD	mh
033018249070	Septic System Known / Required Inspection NOT Current	SOM2009-12881	SEP77-1077	Conventional	1977	EVANS RD	mh
033018249090	Septic System Known / Required Inspection NOT Current	SOM2009-12882	SEP79-03953	Conventional	1979	OLD OLYMPIC HWY	mh
033018249100	Septic System Known / Required Inspection NOT Current	SOM2009-12883	SEP87-00362	Pressure	1989	OLD OLYMPIC HWY	sfr
033018249110	Septic System Known / Required Inspection NOT Current	SOM2009-12884	SEP2001-00162	Sand Line Pressure	2001	OLD OLYMPIC HWY	sfr
033018249120	Septic System Known / Required Inspection NOT Current	SOM2009-12885	SEP77-02692	Conventional	1977	EVANS RD	mh
033018249130	Septic System Known / Required Inspection NOT Current	SOM2009-12886	SEP76-03371	Conventional	1976	GOLD CT	mh

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018249140	Septic System Known / Required Inspection NOT Current	SOM2009-12887	SEP76-02360	Conventional	1976	GOLD CT	mh
033018249150	Septic System Known / Required Inspection NOT Current	SOM2009-12890	SEP77-02389	Conventional	1977	GOLD CT	mh
033018249180	Septic System Known / Required Inspection NOT Current	SOM2009-12891	SEP99-00477	Sand Line Pressure	2000	DIANE DR	mh
033018249190	Septic System Known / Required Inspection NOT Current	SOM2009-12892	SEP79-00882	Conventional	1979	DIANE DR	mh
033018249200	Septic System Known / Required Inspection NOT Current	SOM2009-12894	SEP79-03810	Conventional	1979	DIANE DR	mh
033018320050	Septic System Known / Required Inspection NOT Current	SOM2009-12895	SEP2000-00081	Sand Line Pressure	2000	OLD OLYMPIC HWY	sfr
033018320060	Septic System Known / Required Inspection NOT Current	SOM2009-12896	SEP2005-00450	Pressure	2005	OLD OLYMPIC HWY	sfr
033018320070	Septic System Known / Required Inspection NOT Current	SOM2009-12897	SEP70-08441	Conventional	1970	MARIOTT AVE	mh
033018320080	Septic System Known / Required Inspection NOT Current	SOM2009-12898	SEP2001-00044	Sand Line Pressure	2001	MARIOTT AVE	sfr
033018320090	Septic System Known / Required Inspection NOT Current	SOM2009-12899	SEP73-02079	Conventional	1973	MARIOTT AVE	sfr
033018329000	Septic System Known / Required Inspection NOT Current	SOM2009-12900	SEP77-04373	Conventional	1978	KENDALL RD	sfr
033018329010	Septic System Known / Required Inspection NOT Current	SOM2009-12901	SEP88-00022	Pressure	1989	OLD OLYMPIC HWY	mh
033018329020	Septic System Known / Required Inspection NOT Current	SOM2009-12902	sep2005-np134	Conventional	1980	OLD OLYMPIC HWY	sfr
033018329030	Septic System Known / Required Inspection NOT Current	SOM2009-12903	SEP75-09351	Conventional	1975	OLD OLYMPIC HWY	sfr
033018329040	Septic System Known / Required Inspection NOT Current	SOM2009-12904	SEP79-00354	Conventional	1979	KENDALL RD	sfr
033018329050	Septic System Known / Required Inspection NOT Current	SOM2009-12905	SEP76-02406	Conventional	1976	KENDALL RD	mh
033018329060	Septic System Known / Required Inspection NOT Current	SOM2009-12906	SEP84-00080	Conventional	1984	KENDALL RD	mh
033018329070	Septic System Known / Required Inspection NOT Current	SOM2009-12907	SEP81-00174	Conventional	1981	KENDALL RD	sfr
033018329110	Septic System Known / Required Inspection NOT Current	SOM2009-12908	SEP82-00001	Conventional	1982	MARIOTT AVE	sfr
033018329120	Septic System Known / Required Inspection NOT Current	SOM2011-00127	SEP71-08209	Conventional	1971	KENDALL RD	mfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018329130	Septic System Known / Required Inspection NOT Current	SOM2009-12910	SEP2009-00108	Sand Line Pressure	2010	KENDALL RD	vac
033018339000	Septic System Known / Required Inspection NOT Current	SOM2009-12911	SEP98-00057	Sand Line Pressure	1999	KENDALL RD	sfr
033018339010	Septic System Known / Required Inspection NOT Current	SOM2009-12912	SEP96-00121	Sand Line Pressure	1998	KENDALL RD	sfr
033018339020	Septic System Known / Required Inspection NOT Current	SOM2009-12913	SEP90-00168	Pressure	1992	KENDALL RD	sfr
033018339030	Septic System Known / Required Inspection NOT Current	SOM2009-12914	SEP88-00169	Pressure	1988	KENDALL RD	sfr
033018339040	Septic System Known / Required Inspection NOT Current	SOM2009-12915	SEP89-00069	Pressure	1989	KENDALL RD	sfr
033018339050	Septic System Known / Required Inspection NOT Current	SOM2009-12916	SEP93-00130	Pressure	1994	KENDALL RD	sfr
033018339060	Septic System Known / Required Inspection NOT Current	SOM2009-12917	SEP90-00611	Pressure	1992	KENDALL RD	sfr
033018339090	Septic System Known / Required Inspection NOT Current	SOM2009-12918	SEP69-08185	Conventional	1970	HENDRICKSON RD	sfr
033018410100	Septic System Known / Required Inspection NOT Current	SOM2009-12919	SEP95-00247	Conventional	1995	SEQUIM AVE	pub_q
033018419010	Septic System Known / Required Inspection NOT Current	SOM2009-12920	SEP91-00546	Conventional	1992	BEVERAGE ST	sfr
033018419020	Septic System Known / Required Inspection NOT Current	SOM2009-12922	SEP91-00010	Pressure	1991	BEVERAGE ST	sfr
033018419250	Septic System Known / Required Inspection NOT Current	SOM2009-12936	SEP95-00165	Pressure	1995	SEQUIM AVE	sfr
033018429010	Septic System Known / Required Inspection NOT Current	SOM2009-12925	SEP81-00021	Conventional	1981	MALIA LN	sfr
033018429020	Septic System Known / Required Inspection NOT Current	SOM2009-12926	SEP91-00338	Sand Line Pressure	1992	MALIA LN	mh
033018429030	Septic System Known / Required Inspection NOT Current	SOM2009-12927	SEP79-08235	Conventional	1979	MALIA LN	sfr
033018429040	Septic System Known / Required Inspection NOT Current	SOM2009-12928	SEP80-00035	Conventional	1980	MALIA LN	sfr
033018429050	Septic System Known / Required Inspection NOT Current	SOM2009-12929	SEP96-00187	Pressure	1996	OLD OLYMPIC HWY	cml
033018439000	Septic System Known / Required Inspection NOT Current	SOM2009-12930	SEP88-00397	Conventional	1989	TURNHERE RD	sfr
033018439010	Septic System Known / Required Inspection NOT Current	SOM2009-12931	SEP77-02238	Conventional	1977	BEVERAGE ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018439020	Septic System Known / Required Inspection NOT Current	SOM2009-12932	SEP97-00182	Pressure	1997	TURNHERE RD	sfr
033018439030	Septic System Known / Required Inspection NOT Current	SOM2009-12933	SEP73-07784	Conventional	1973	TURNHERE RD	sfr
033018439040	Septic System Known / Required Inspection NOT Current	SOM2009-12934	SEP93-00370	Sand Line Pressure	1994	BEVERAGE ST	sfr
033018439060	Septic System Known / Required Inspection NOT Current	SOM2009-12937	SEP93-00337	Sand Line Pressure	1998	BEVERAGE ST	sfr
033018439100	Septic System Known / Required Inspection NOT Current	SOM2011-00145	SEP71-09941	Conventional	1971	FIFTH AVE	cml
033018439160	Septic System Known / Required Inspection NOT Current	SOM2009-12935	SEP2009-00019	Sand Line Pressure	2009	N BEVERAGE ST	sfr
033018439170	Septic System Known / Required Inspection NOT Current	SOM2009-12939	SEP94-00047	Sand Line Pressure	1997	N BEVERAGE ST	sfr
033018440010	Septic System Known / Required Inspection NOT Current	SOM2009-12941	SEP76-02756	Conventional	1976	BEVERAGE ST	sfr
033018440060	Septic System Known / Required Inspection NOT Current	SOM2009-12942	SEP75-09763	Conventional	1975	SEQUIM AVE	cml
033018440080	Septic System Known / Required Inspection NOT Current	SOM2009-12943	SEP90-00331	Pressurized Deep Trench	1990	HENDRICKSON RD	mfr
033018440090	Septic System Known / Required Inspection NOT Current	SOM2009-12944	SEP91-00584	Pressure	1991	SEQUIM AVE	cml
033018440100	Septic System Known / Required Inspection NOT Current	SOM2009-12946	SEP84-10043	Conventional	1984	SEQUIM AVE	sfr
033018440120	Septic System Known / Required Inspection NOT Current	SOM2009-12947	SEP89-00607	Conventional	1989	SEQUIM AVE	pub_q
033018449000	Septic System Known / Required Inspection NOT Current	SOM2009-12948	SEP78-03393	Conventional	1978	BEVERAGE ST	sfr
033018449010	Septic System Known / Required Inspection NOT Current	SOM2009-12949	SEP96-00346	Sand Line Pressure	1996	BEVERAGE ST	sfr
033018449020	Septic System Known / Required Inspection NOT Current	SOM2009-12950	SEP99-00511	Sand Line Pressure	2000	BEVERAGE ST	sfr
033018449030	Septic System Known / Required Inspection NOT Current	SOM2009-12951	SEP2002-00145	Sand Line Pressure	2002	BEVERAGE ST	sfr
033018449050	Septic System Known / Required Inspection NOT Current	SOM2009-12952	SEP83-00342	Conventional	1983	LEE LN	vac
033018449060	Septic System Known / Required Inspection NOT Current	SOM2009-12953	SEP94-00064	Sand Line Pressure	1994	LEE LN	sfr
033018449080	Septic System Known / Required Inspection NOT Current	SOM2009-12955	SEP94-00245	Sand Line Pressure	1994	LEE LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018500010	Septic System Known / Required Inspection NOT Current	SOM2009-12956	SEP72-09063	Conventional	1972	DEYTONA ST	mh
033018500020	Septic System Known / Required Inspection NOT Current	SOM2009-12957	SEP71-08265	Conventional	1971	DEYTONA ST	mh
033018500030	Septic System Known / Required Inspection NOT Current	SOM2009-12958	SEP75-09046	Conventional	1975	DEYTONA ST	mh
033018500040	Septic System Known / Required Inspection NOT Current	SOM2009-12959	SEP89-00224	Pressure	1989	DEYTONA ST	sfr
033018500050	Septic System Known / Required Inspection NOT Current	SOM2009-12960	SEP79-03914	Conventional	1979	DEYTONA ST	mh
033018500060	Septic System Known / Required Inspection NOT Current	SOM2009-12961	SEP70-08275	Conventional	1970	DEYTONA ST	mh
033018500070	Septic System Known / Required Inspection NOT Current	SOM2009-12962	SEP71-08084	Conventional	1971	DEYTONA ST	mh
033018500080	Septic System Known / Required Inspection NOT Current	SOM2009-12963	SEP69-01827	Conventional	1969	DEYTONA ST	mh
033018500090	Septic System Known / Required Inspection NOT Current	SOM2009-12964	SEP72-06214	Conventional	1972	DEYTONA ST	mh
033018500100	Septic System Known / Required Inspection NOT Current	SOM2009-12965	SEP76-02847	Conventional	1976	DEYTONA ST	mh
033018500110	Septic System Known / Required Inspection NOT Current	SOM2009-12967	SEP70-08275	Conventional	1970	DEYTONA ST	mh
033018500130	Septic System Known / Required Inspection NOT Current	SOM2009-12968	SEP73-07572	Conventional	1973	DEYTONA ST	mh
033018500140	Septic System Known / Required Inspection NOT Current	SOM2009-12969	SEP75-08910	Conventional	1975	DEYTONA ST	mh
033018500150	Septic System Known / Required Inspection NOT Current	SOM2009-12970	SEP78-05929	Conventional	1979	DEYTONA ST	mh
033018500160	Septic System Known / Required Inspection NOT Current	SOM2009-12972	SEP73-06635	Conventional	1973	DEYTONA ST	mh
033018500180	Septic System Known / Required Inspection NOT Current	SOM2009-12973	SEP73-02131	Conventional	1973	DEYTONA ST	mh
033018500190	Septic System Known / Required Inspection NOT Current	SOM2009-12974	SEP72-09620	Conventional	1972	BEVERAGE ST	mh
033018500200	Septic System Known / Required Inspection NOT Current	SOM2009-12975	SEP72-19592	Conventional	1972	DEYTONA ST	mh
033018500210	Septic System Known / Required Inspection NOT Current	SOM2009-12976	SEP77-02703	Conventional	1977	DEYTONA ST	mh
033018500220	Septic System Known / Required Inspection NOT Current	SOM2009-12977	SEP76-02522	Conventional	1976	DEYTONA ST	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018500230	Septic System Known / Required Inspection NOT Current	SOM2009-12980	SEP2003-00345	Sand Line Pressure	2003	DEYTONA ST	mh
033018500260	Septic System Known / Required Inspection NOT Current	SOM2009-12982	SEP73-07994	Conventional	1973	DEYTONA ST	mh
033018500280	Septic System Known / Required Inspection NOT Current	SOM2009-12984	SEP79-08024	Conventional	1980	DEYTONA ST	mh
033018500310	Septic System Known / Required Inspection NOT Current	SOM2009-12985	SEP73-07820	Conventional	1973	SEQUIM DUNGENESS WY	mh
033018510100	Septic System Known / Required Inspection NOT Current	SOM2009-00892	sep93-np098	Conventional	1973	MARIOTT AVE	sfr
033018510125	Septic System Known / Required Inspection NOT Current	SOM2009-12988	SEP65-NP892	Conventional	1965	MARIOTT AVE	sfr
033018510175	Septic System Known / Required Inspection NOT Current	SOM2009-12989	SEP93-00071	Sand Line Pressure	1994	ELLIOTT CT	sfr
033018510200	Septic System Known / Required Inspection NOT Current	SOM2009-31590	SEP79-08327	Conventional	1979	ELLIOTT CT	mh
033018510225	Septic System Known / Required Inspection NOT Current	SOM2009-12990	SEP87-00331	Pressure	1988	ELLIOTT CT	mh
033018510250	Septic System Known / Required Inspection NOT Current	SOM2009-12991	SEP72-09760	Conventional	1972	MARIOTT AVE	mh
033018520100	Septic System Known / Required Inspection NOT Current	SOM2009-12992	SEP76-08128	Conventional	1976	HOUSE RD	mh
033018520200	Septic System Known / Required Inspection NOT Current	SOM2009-12993	SEP77-02081	Unknown	1977	HOUSE RD	mh
033018520300	Septic System Known / Required Inspection NOT Current	SOM2009-12994	SEP77-02672	Conventional	1977	HOUSE RD	mh
033018520320	Septic System Known / Required Inspection NOT Current	SOM2009-12995	SEP76-03913	Conventional	1976	HOUSE RD	mh
033018520500	Septic System Known / Required Inspection NOT Current	SOM2009-12996	SEP76-02205	Conventional	1976	HOUSE RD	mh
033018520600	Septic System Known / Required Inspection NOT Current	SOM2009-12998	SEP98-00125	Sand Line Pressure	1998	COTTONWOOD LN	sfr
033018520800	Septic System Known / Required Inspection NOT Current	SOM2009-12999	SEP77-32177	Conventional	1977	COTTONWOOD LN	sfr
033018520900	Septic System Known / Required Inspection NOT Current	SOM2009-13000	SEP73-07155	Conventional	1973	COTTONWOOD LN	mh
033018521000	Septic System Known / Required Inspection NOT Current	SOM2009-13002	SEP2003-00022	Sand Line Pressure	2003	COTTONWOOD LN	mh
033018521200	Septic System Known / Required Inspection NOT Current	SOM2009-13003	SEP75-09699	Conventional	1975	COTTONWOOD LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018521300	Septic System Known / Required Inspection NOT Current	SOM2009-13004	SEP76-08058	Conventional	1976	EAGLE PL	mh
033018521500	Septic System Known / Required Inspection NOT Current	SOM2009-13005	SEP78-03152	Conventional	1978	EAGLE PL	mh
033018521600	Septic System Known / Required Inspection NOT Current	SOM2009-13006	SEP2011-00048	Sand Line Pressure	2011	EAGLE PL	sfr
033018521700	Septic System Known / Required Inspection NOT Current	SOM2009-13007	SEP2000-00360	Sand Line Pressure	2002	EAGLE PL	mh
033018521800	Septic System Known / Required Inspection NOT Current	SOM2009-13008	SEP76-03481	Conventional	1976	EAGLE PL	mh
033018521900	Septic System Known / Required Inspection NOT Current	SOM2009-13009	SEP82-00251	Conventional	1982	EAGLE PL	mh
033018522000	Septic System Known / Required Inspection NOT Current	SOM2009-13010	SEP77-01836	Conventional	1977	EAGLE PL	mh
033018522100	Septic System Known / Required Inspection NOT Current	SOM2009-13011	SEP76-13216	Conventional	1976	EAGLE PL	mh
033018522200	Septic System Known / Required Inspection NOT Current	SOM2009-13013	SEP77-04562	Conventional	1978	EAGLE PL	sfr
033018522400	Septic System Known / Required Inspection NOT Current	SOM2009-13014	SEP76-02703	Conventional	1976	COTTONWOOD LN	sfr
033018522500	Septic System Known / Required Inspection NOT Current	SOM2009-13015	SEP73-07879	Conventional	1977	COTTONWOOD LN	mh
033018522600	Septic System Known / Required Inspection NOT Current	SOM2009-13016	SEP71-08744	Conventional	1971	COTTONWOOD LN	mh
033018522700	Septic System Known / Required Inspection NOT Current	SOM2009-13017	SEP78-04165	Conventional	1978	COTTONWOOD LN	mh
033018522800	Septic System Known / Required Inspection NOT Current	SOM2009-13019	SEP73-07506	Conventional	1973	COTTONWOOD LN	mh
033018523000	Septic System Known / Required Inspection NOT Current	SOM2009-13020	SEP78-01841	Conventional	1978	COTTONWOOD LN	mh
033018523100	Septic System Known / Required Inspection NOT Current	SOM2009-13021	SEP91-00182	Sand Line Pressure	1992	COTTONWOOD LN	mh
033018523200	Septic System Known / Required Inspection NOT Current	SOM2009-13022	SEP91-00183	Sand Line Pressure	1991	COTTONWOOD LN	mh
033018523300	Septic System Known / Required Inspection NOT Current	SOM2009-13023	SEP93-00582	Sand Line Pressure	1994	HOUSE RD	sfr
033018530000	Septic System Known / Required Inspection NOT Current	SOM2009-13024	SEP84-00074	Conventional	1984	MARIOTT AVE	mh
033018530020	Septic System Known / Required Inspection NOT Current	SOM2009-13025	SEP78-03467	Conventional	1978	MARIOTT AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018530040	Septic System Known / Required Inspection NOT Current	SOM2009-13026	SEP74-11074	Conventional	1974	MARIOTT AVE	mh
033018530060	Septic System Known / Required Inspection NOT Current	SOM2009-13027	SEP84-02671	Conventional	1984	MARIOTT AVE	mh
033018530080	Septic System Known / Required Inspection NOT Current	SOM2009-13028	SEP75-09192	Conventional	1975	MARIOTT AVE	mh
033018530100	Septic System Known / Required Inspection NOT Current	SOM2011-00337	SEP71-41871	Conventional	1971	MARIOTT AVE	sfr
033018530120	Septic System Known / Required Inspection NOT Current	SOM2009-13030	SEP70-NP224	Conventional	1970		mh
033018540100	Septic System Known / Required Inspection NOT Current	SOM2009-13031	SEP75-06519	Conventional	1975	MARIOTT AVE	sfr
033018540200	Septic System Known / Required Inspection NOT Current	SOM2009-13032	SEP75-16519	Conventional	1975	MARIOTT AVE	sfr
033018550010	Septic System Known / Required Inspection NOT Current	SOM2009-13033	SEP78-03533	Conventional	1978	ELIZABETH LN	sfr
033018550020	Septic System Known / Required Inspection NOT Current	SOM2009-13034	SEP90-00678	Pressure	1991	ELIZABETH LN	sfr
033018550030	Septic System Known / Required Inspection NOT Current	SOM2009-13035	SEP94-00220	Sand Line Pressure	1996	ELIZABETH LN	sfr
033018550040	Septic System Known / Required Inspection NOT Current	SOM2009-13036	SEP77-04424	Conventional	1978	ELIZABETH LN	sfr
033018550050	Septic System Known / Required Inspection NOT Current	SOM2009-13037	SEP94-00256	Sand Line Pressure	1994	ELIZABETH LN	sfr
033018550060	Septic System Known / Required Inspection NOT Current	SOM2009-13038	SEP78-04055	Conventional	1978	ELIZABETH LN	sfr
033018550070	Septic System Known / Required Inspection NOT Current	SOM2009-13039	SEP91-00430	Sand Line Pressure	1993	ELIZABETH LN	sfr
033018550080	Septic System Known / Required Inspection NOT Current	SOM2009-13040	SEP78-03751	Conventional	1978	DIANE DR	sfr
033018550090	Septic System Known / Required Inspection NOT Current	SOM2009-13041	SEP78-13533	Conventional	1978	DIANE DR	sfr
033018550100	Septic System Known / Required Inspection NOT Current	SOM2009-13042	SEP89-00483	Pressure	1990	DIANE DR	sfr
033018550110	Septic System Known / Required Inspection NOT Current	SOM2009-13043	SEP90-00223	Pressure	1990	ELIZABETH LN	sfr
033018550120	Septic System Known / Required Inspection NOT Current	SOM2009-13045	SEP78-23533	Conventional	1978	KAREN CT	sfr
033018550140	Septic System Known / Required Inspection NOT Current	SOM2009-13046	SEP78-24055	Conventional	1978	KAREN CT	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018550150	Septic System Known / Required Inspection NOT Current	SOM2009-13047	SEP78-33533	Conventional	1978	KAREN CT	sfr
033018550160	Septic System Known / Required Inspection NOT Current	SOM2009-13048	SEP92-00290	Sand Line Pressure	1993	KAREN CT	sfr
033018550170	Septic System Known / Required Inspection NOT Current	SOM2009-13049	SEP90-00416	Pressure	1991	KELLIE CT	sfr
033018550180	Septic System Known / Required Inspection NOT Current	SOM2009-13050	SEP78-43533	Conventional	1978	KELLIE CT	sfr
033018550190	Septic System Known / Required Inspection NOT Current	SOM2009-13052	SEP78-53533	Conventional	1978	KELLIE CT	sfr
033018550210	Septic System Known / Required Inspection NOT Current	SOM2009-13053	SEP78-44055	Conventional	1978	ELIZABETH LN	sfr
033018550240	Septic System Known / Required Inspection NOT Current	SOM2009-13054	SEP91-00132	Sand Line Pressure	1991	ELIZABETH LN	sfr
033018550250	Septic System Known / Required Inspection NOT Current	SOM2009-13056	SEP78-40550	Conventional	1978	ELIZABETH LN	sfr
033018550270	Septic System Known / Required Inspection NOT Current	SOM2009-13057	SEP78-54055	Conventional	1978	ELIZABETH LN	sfr
033018550290	Septic System Known / Required Inspection NOT Current	SOM2009-13058	SEP77-14424	Conventional	1978	ELIZABETH LN	sfr
033018550300	Septic System Known / Required Inspection NOT Current	SOM2009-13059	SEP92-00246	Sand Line Pressure	1993	ELIZABETH LN	sfr
033018550310	Septic System Known / Required Inspection NOT Current	SOM2009-13060	SEP77-64424	Conventional	1978	ELIZABETH LN	sfr
033018550320	Septic System Known / Required Inspection NOT Current	SOM2009-13061	SEP95-00463	Pressure	1996	ELIZABETH LN	sfr
033018550330	Septic System Known / Required Inspection NOT Current	SOM2009-13062	SEP77-54424	Conventional	1978	ELIZABETH LN	sfr
033018550340	Septic System Known / Required Inspection NOT Current	SOM2009-13063	SEP84-00008	Conventional	1984	ELIZABETH LN	vac
033018550350	Septic System Known / Required Inspection NOT Current	SOM2009-13064	SEP83-00012	Conventional	1983	DIANE DR	sfr
033018550360	Septic System Known / Required Inspection NOT Current	SOM2009-13065	SEP94-00005	Sand Line Pressure	1994	ELIZABETH LN	sfr
033018550370	Septic System Known / Required Inspection NOT Current	SOM2009-13066	SEP89-00484	Pressure	1990	ELIZABETH LN	sfr
033018550380	Septic System Known / Required Inspection NOT Current	SOM2009-13067	SEP89-00592	Pressure	1990	ELIZABETH LN	sfr
033018550390	Septic System Known / Required Inspection NOT Current	SOM2009-13068	SEP90-00558	Pressure	1991	ELIZABETH LN	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018550400	Septic System Known / Required Inspection NOT Current	SOM2009-13069	SEP78-63533	Conventional	1978	ELIZABETH LN	sfr
033018550410	Septic System Known / Required Inspection NOT Current	SOM2009-00259	SEP78-64055	Conventional	1978	ELIZABETH LN	sfr
033018610000	Septic System Known / Required Inspection NOT Current	SOM2009-00260	SEP88-00188	Pressure	1989	PUFFIN PL	rd
033018610020	Septic System Known / Required Inspection NOT Current	SOM2009-00263	SEP79-NP951	Conventional	1979		mfr
033018610030	Septic System Known / Required Inspection NOT Current	SOM2009-00264	SEP88-00184	Pressure	1989		mfr
033018610040	Septic System Known / Required Inspection NOT Current	SOM2009-00266	SEP88-00180	Pressure	1989		mfr
033018610370	Septic System Known / Required Inspection NOT Current	SOM2009-00269	SEP88-00216	Pressure	1989		mfr
033018610380	Septic System Known / Required Inspection NOT Current	SOM2009-00258	SEP88-00211	Pressure	1989		mfr
033018610400	Septic System Known / Required Inspection NOT Current	SOM2009-00137	SEP88-00187	Pressure	1989		mfr
033018610430	Septic System Known / Required Inspection NOT Current	SOM2009-00255	sep89-00092	Pressure	1991		mfr
033018630080	Septic System Known / Required Inspection NOT Current	SOM2009-13074	SEP90-00653	Sand Line Pressure	1991		mfr
033018630090	Septic System Known / Required Inspection NOT Current	SOM2009-13076	SEP96-00013	Pressure	1996	MARINERS DR	mfr
033018630110	Septic System Known / Required Inspection NOT Current	SOM2009-13073	SEP96-00415	Pressure	1996	MARINERS DR	sfr
033018630120	Septic System Known / Required Inspection NOT Current	SOM2009-13077	SEP92-00136	Sand Line Pressure	1994		mfr
033018630340	Septic System Known / Required Inspection NOT Current	SOM2009-13078	SEP91-00020	Pressure	1991	MARINERS DR	sfr
033018630350	Septic System Known / Required Inspection NOT Current	SOM2009-31449	SEP91-00021	Sand Line Pressure	1991	MARINERS DR	sfr
033018650130	Septic System Known / Required Inspection NOT Current	SOM2009-31450	SEP2005-00362	Sand Line Pressure	2006	MARINERS DR	mfr
033018650140	Septic System Known / Required Inspection NOT Current	SOM2009-31451	SEP2007-00254	Sand Line Pressure	2008	HERON WY	mfr
033018650220	Septic System Known / Required Inspection NOT Current	SOM2009-31452	SEP2005-00042	Sand Line Pressure	2005	MARINERS WY	mfr
033018650230	Septic System Known / Required Inspection NOT Current	SOM2009-13080	SEP2005-00567	Pressure	2006	MARINERS DR	mfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018670125	Septic System Known / Required Inspection NOT Current	SOM2009-13081	SEP91-00047	Pressure	1991	TROWBRIDGE CT	mfr
033018670225	Septic System Known / Required Inspection NOT Current	SOM2009-13082	SEP93-00306	Sand Line Pressure	1997	TROWBRIDGE CT	mfr
033018670325	Septic System Known / Required Inspection NOT Current	SOM2009-13083	SEP93-00506	Sand Line Pressure	1994	TROWBRIDGE CT	mfr
033018670425	Septic System Known / Required Inspection NOT Current	SOM2009-13084	SEP90-00226	Pressure	1991	TROWBRIDGE CT	mfr
033018670525	Septic System Known / Required Inspection NOT Current	SOM2009-13085	SEP94-00070	Sand Line Pressure	1994	TROWBRIDGE CT	mfr
033018670625	Septic System Known / Required Inspection NOT Current	SOM2009-13086	SEP93-00082	Pressure	1994	TROWBRIDGE CT	mfr
033018670725	Septic System Known / Required Inspection NOT Current	SOM2009-13087	SEP92-00414	Pressure	1993	TROWBRIDGE CT	mfr
033018670825	Septic System Known / Required Inspection NOT Current	SOM2009-13088	SEP91-00634	Sand Line Pressure	1992	TROWBRIDGE CT	vac
033018680010	Septic System Known / Required Inspection NOT Current	SOM2009-13089	SEP96-00129	Sand Line Pressure	1996	DUKE DR	sfr
033018680020	Septic System Known / Required Inspection NOT Current	SOM2009-13090	SEP98-00071	Sand Line Pressure	1998	DUKE DR	sfr
033018680030	Septic System Known / Required Inspection NOT Current	SOM2009-13092	SEP95-00497	Sand Line Pressure	1996	DUKE DR	sfr
033018680050	Septic System Known / Required Inspection NOT Current	SOM2009-13093	SEP96-00136	Pressure	1996	DUKE DR	sfr
033018680060	Septic System Known / Required Inspection NOT Current	SOM2009-13094	SEP97-00226	Pressure	1998	DUKE DR	sfr
033018680070	Septic System Known / Required Inspection NOT Current	SOM2009-13095	SEP97-00075	Sand Line Pressure	1998	DUKE DR	sfr
033018680080	Septic System Known / Required Inspection NOT Current	SOM2009-13096	SEP96-00018	Pressure	1996	DUKE DR	sfr
033018680090	Septic System Known / Required Inspection NOT Current	SOM2009-13097	SEP96-00139	Pressure	1996	DUKE DR	sfr
033018680100	Septic System Known / Required Inspection NOT Current	SOM2009-13098	SEP96-00478	Sand Line Pressure	1996	DUKE DR	sfr
033018680110	Septic System Known / Required Inspection NOT Current	SOM2009-13099	SEP97-00167	Sand Line Pressure	1997	DUKE DR	sfr
033018680120	Septic System Known / Required Inspection NOT Current	SOM2009-13100	SEP96-00257	Pressure	1996	DUKE DR	sfr
033018680130	Septic System Known / Required Inspection NOT Current	SOM2009-13103	SEP96-00312	Sand Line Pressure	1996	DUKE DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018680160	Septic System Known / Required Inspection NOT Current	SOM2009-13104	SEP97-00447	Pressure	1999	DUKE DR	sfr
033018680170	Septic System Known / Required Inspection NOT Current	SOM2009-13105	SEP94-00154	Sand Line Pressure	1994	DUKE DR	sfr
033018680180	Septic System Known / Required Inspection NOT Current	SOM2009-13106	SEP94-00123	Sand Line Pressure	1994	DUKE DR	sfr
033018680190	Septic System Known / Required Inspection NOT Current	SOM2009-13107	SEP93-00239	Sand Line Pressure	1993	DUKE DR	sfr
033018680200	Septic System Known / Required Inspection NOT Current	SOM2009-13108	SEP93-00238	Sand Line Pressure	1993	DUKE DR	sfr
033018680210	Septic System Known / Required Inspection NOT Current	SOM2009-13109	SEP93-00237	Sand Line Pressure	1993	DUKE DR	sfr
033018680220	Septic System Known / Required Inspection NOT Current	SOM2009-13110	SEP94-00118	Sand Line Pressure	1994	DUKE DR	sfr
033018680230	Septic System Known / Required Inspection NOT Current	SOM2009-13111	SEP97-00105	Sand Line Pressure	1997	DUKE DR	sfr
033018680240	Septic System Known / Required Inspection NOT Current	SOM2009-13112	SEP97-00443	Sand Line Pressure	1998	DUKE DR	sfr
033018680250	Septic System Known / Required Inspection NOT Current	SOM2009-13114	SEP97-00236	Conventional	2000	DUKE DR	sfr
033018680270	Septic System Known / Required Inspection NOT Current	SOM2009-13116	SEP96-00397	Sand Line Pressure	1996	DUKE DR	sfr
033018680290	Septic System Known / Required Inspection NOT Current	SOM2009-13118	SEP96-00111	Pressure	1996	DUKE DR	sfr
033018680310	Septic System Known / Required Inspection NOT Current	SOM2009-13119	SEP97-00033	Pressure	1997	DUKE DR	sfr
033018680320	Septic System Known / Required Inspection NOT Current	SOM2009-13120	SEP96-00512	Pressure	1997	DUKE DR	sfr
033018680330	Septic System Known / Required Inspection NOT Current	SOM2009-13121	SEP95-00130	Pressure	1995	DUKE DR	sfr
033018680340	Septic System Known / Required Inspection NOT Current	SOM2009-13122	SEP98-00028	Pressure	1999	DUKE DR	sfr
033018680350	Septic System Known / Required Inspection NOT Current	SOM2009-13123	SEP97-00190	Conventional	1997	DUKE DR	sfr
033018680360	Septic System Known / Required Inspection NOT Current	SOM2009-13124	SEP96-00177	Pressure	1996	DUKE DR	sfr
033018680370	Septic System Known / Required Inspection NOT Current	SOM2009-13125	SEP97-00022	Sand Line Pressure	1997	DUKE DR	sfr
033018680380	Septic System Known / Required Inspection NOT Current	SOM2009-13126	SEP97-00375	Sand Line Pressure	1998	DUKE DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018680390	Septic System Known / Required Inspection NOT Current	SOM2009-13127	SEP98-00052	Sand Line Pressure	1999	DUKE DR	sfr
033018680400	Septic System Known / Required Inspection NOT Current	SOM2009-00241	SEP91-00639	Sand Line Pressure	1993	OLD OLYMPIC HWY	sfr
033018700000	Septic System Known / Required Inspection NOT Current	SOM2009-13129	SEP97-00041	Sand Line Pressure	1997	WINDSOR CT	mfr
033018720010	Septic System Known / Required Inspection NOT Current	SOM2009-13130	SEP98-00064	Sand Line Pressure	1998	CHERRYWOOD PL	sfr
033018720020	Septic System Known / Required Inspection NOT Current	SOM2009-13131	SEP97-00388	Sand Line Pressure	2000	CHERRYWOOD PL	sfr
033018720030	Septic System Known / Required Inspection NOT Current	SOM2009-13132	SEP97-00030	Sand Line Pressure	1999	CHERRYWOOD PL	sfr
033018720040	Septic System Known / Required Inspection NOT Current	SOM2009-13133	SEP97-00029	Sand Line Pressure	2000	CHERRYWOOD PL	sfr
033018720050	Septic System Known / Required Inspection NOT Current	SOM2009-13134	SEP97-00028	Sand Line Pressure	1997	CHERRYWOOD PL	vac
033018720060	Septic System Known / Required Inspection NOT Current	SOM2009-13135	SEP96-00207	Sand Line Pressure	1996	CHERRYWOOD PL	sfr
033018720070	Septic System Known / Required Inspection NOT Current	SOM2009-13136	SEP98-00500	Pressure	2002	CHERRYWOOD PL	sfr
033018720080	Septic System Known / Required Inspection NOT Current	SOM2009-13137	SEP96-00335	Pressure	1996	CHERRYWOOD PL	sfr
033018720090	Septic System Known / Required Inspection NOT Current	SOM2009-13138	SEP97-00017	Sand Line Pressure	1997	CHERRYWOOD PL	sfr
033018720100	Septic System Known / Required Inspection NOT Current	SOM2009-13139	SEP97-00387	Sand Line Pressure	1998	CHERRYWOOD PL	sfr
033018730010	Septic System Known / Required Inspection NOT Current	SOM2009-13140	SEP95-00410	Sand Line Pressure	1995	OLD OLYMPIC HWY	sfr
033018730030	Septic System Known / Required Inspection NOT Current	SOM2009-13141	SEP96-00261	Sand Line Pressure	1997	OLD OLYMPIC HWY	mh
033018730050	Septic System Known / Required Inspection NOT Current	SOM2009-13142	SEP95-00478	Sand Line Pressure	1995	SEQUIM DUNGENESS WY	mh
033018739010	Septic System Known / Required Inspection NOT Current	SOM2009-13143	SEP95-00296	Sand Line Pressure	1995	SEQUIM AVE	sfr
033018739040	Septic System Known / Required Inspection NOT Current	SOM2009-13145	SEP95-00479	Sand Line Pressure	1995	OLD OLYMPIC HWY	mh
033018750010	Septic System Known / Required Inspection NOT Current	SOM2009-13146	SEP2001-00184	Sand Line Pressure	2001	MARIAN WY	mh
033018750020	Septic System Known / Required Inspection NOT Current	SOM2009-13147	SEP96-00219	Sand Line Pressure	1996	MARIAN WY	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018750030	Septic System Known / Required Inspection NOT Current	SOM2009-13148	SEP2000-00407	Sand Line Pressure	2001	MARIAN WY	mh
033018750040	Septic System Known / Required Inspection NOT Current	SOM2009-13149	SEP96-00213	Pressure	1996	MARIAN WY	mh
033018750050	Septic System Known / Required Inspection NOT Current	SOM2009-13150	SEP98-00443	Sand Line Pressure	1998	MARIAN WY	mh
033018750060	Septic System Known / Required Inspection NOT Current	SOM2009-31591	SEP99-00026	Sand Line Pressure	1999	MARIAN WY	mh
033018750070	Septic System Known / Required Inspection NOT Current	SOM2009-13151	SEP97-00168	Sand Line Pressure	1997	MARIAN WY	mh
033018750080	Septic System Known / Required Inspection NOT Current	SOM2009-13152	SEP2002-00480	Sand Line Pressure	2003	MARIAN WY	mh
033018750090	Septic System Known / Required Inspection NOT Current	SOM2009-13153	SEP99-00090	Sand Line Pressure	1999	MARIAN WY	mh
033018750100	Septic System Known / Required Inspection NOT Current	SOM2009-13154	SEP99-00497	Sand Line Pressure	2000	MARIAN WY	mh
033018770010	Septic System Known / Required Inspection NOT Current	SOM2009-13155	SEP2000-00207	Sand Line Pressure	2000	SYLVESTER CT	sfr
033018770020	Septic System Known / Required Inspection NOT Current	SOM2009-13156	SEP98-00415	Sand Line Pressure	1998	SYLVESTER CT	sfr
033018770030	Septic System Known / Required Inspection NOT Current	SOM2009-13157	SEP98-00467	Sand Line Pressure	1999	SYLVESTER CT	sfr
033018770040	Septic System Known / Required Inspection NOT Current	SOM2009-13158	SEP99-00002	Sand Line Pressure	1999	SYLVESTER CT	sfr
033018770050	Septic System Known / Required Inspection NOT Current	SOM2009-13159	SEP99-00003	Sand Line Pressure	1999	SYLVESTER CT	sfr
033018770060	Septic System Known / Required Inspection NOT Current	SOM2009-13160	SEP99-00263	Sand Line Pressure	2001	SYLVESTER CT	sfr
033018770070	Septic System Known / Required Inspection NOT Current	SOM2009-13161	SEP99-00482	Sand Line Pressure	2000	SYLVESTER CT	sfr
033018770080	Septic System Known / Required Inspection NOT Current	SOM2009-13162	SEP2001-00133	Pressure	2001	SYLVESTER CT	sfr
033018770090	Septic System Known / Required Inspection NOT Current	SOM2009-13163	SEP2001-00011	Sand Line Pressure	2001	SYLVESTER CT	sfr
033018770100	Septic System Known / Required Inspection NOT Current	SOM2009-13164	SEP2000-00465	Sand Line Pressure	2001	SYLVESTER CT	sfr
033018770110	Septic System Known / Required Inspection NOT Current	SOM2009-13165	SEP2000-00290	Sand Line Pressure	2000	SYLVESTER CT	sfr
033018770120	Septic System Known / Required Inspection NOT Current	SOM2009-13166	SEP99-00070	Sand Line Pressure	1999	SYLVESTER CT	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019120025	Septic System Known / Required Inspection NOT Current	SOM2009-13167	SEP81-01181	Conventional	1981	FIFTH AVE	sfr
033019219020	Septic System Known / Required Inspection NOT Current	SOM2009-13168	SEP86-00387	Conventional	1986	HENDRICKSON RD	mh
033019219040	Septic System Known / Required Inspection NOT Current	SOM2009-13170	SEP79-00314	Conventional	1979	HENDRICKSON RD	sfr
033019229080	Septic System Known / Required Inspection NOT Current	SOM2009-13172	SEP72-09879	Conventional	1973	HENDRICKSON RD	sfr
033019320005	Septic System Known / Required Inspection NOT Current	SOM2009-13176	SEP86-10086	Pressure	1986	SEVENTH AVE	sfr
033019320120	Septic System Known / Required Inspection NOT Current	SOM2009-13178	SEP83-00181	Pit Toilet	1984	NINTH AVE	ag
033019330250	Septic System Known / Required Inspection NOT Current	SOM2009-13180	SEP2002-00012	Conventional	2002	SEVENTH AVE	sfr
033019349020	Septic System Known / Required Inspection NOT Current	SOM2009-13181	SEP79-08250	Conventional	1979	FIFTH AVE	sfr
033019349030	Septic System Known / Required Inspection NOT Current	SOM2009-13182	SEP83-10024	Conventional	1985	FIFTH AVE	sfr
033019349070	Septic System Known / Required Inspection NOT Current	SOM2009-13185	SEP86-00021	Conventional	1987	HEMLOCK ST	sfr
033020210002	Septic System Known / Required Inspection NOT Current	SOM2009-13186	SEP68-00892	Conventional	1968	BROWN RD	mh
033020210030	Septic System Known / Required Inspection NOT Current	SOM2009-13187	SEP80-00061	Conventional	1981	BROWN RD	sfr
033020210050	Septic System Known / Required Inspection NOT Current	SOM2009-13188	SEP84-00351	Conventional	1985	BROWN RD	sfr
033020210140	Septic System Known / Required Inspection NOT Current	SOM2009-13189	SEP81-00051	Conventional	1981	BROWN ROAD	pub_q
033020210160	Septic System Known / Required Inspection NOT Current	SOM2009-13190	SEP86-00126	Conventional	1988	BROWN RD	sfr
033020210170	Septic System Known / Required Inspection NOT Current	SOM2009-13191	SEP71-08035	Conventional	1971	BROWN RD	sfr
033020210180	Septic System Known / Required Inspection NOT Current	SOM2009-13193	SEP71-00521	Conventional	1971	BROWN RD	sfr
033020219030	Septic System Known / Required Inspection NOT Current	SOM2009-13194	SEP71-09940	Conventional	1971	DUNLAP AVE	mh
033020219050	Septic System Known / Required Inspection NOT Current	SOM2009-13195	SEP92-00321	Sand Line Pressure	1993	DUNLAP AVE	sfr
033020219060	Septic System Known / Required Inspection NOT Current	SOM2009-13196	SEP90-00024	Pressure	1990	DUNLAP AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020219070	Septic System Known / Required Inspection NOT Current	SOM2009-13197	SEP87-00045	Conventional	1987	DUNLAP AVE	sfr
033020219080	Septic System Known / Required Inspection NOT Current	SOM2009-13198	SEP89-00142	Pressure	1989	DUNLAP AVE	sfr
033020219120	Septic System Known / Required Inspection NOT Current	SOM2009-13199	SEP87-00065	Pressure	1987	FIR ST	sfr
033020219130	Septic System Known / Required Inspection NOT Current	SOM2009-13200	SEP86-00349	Conventional	1986	FIR ST	sfr
033020220025	Septic System Known / Required Inspection NOT Current	SOM2009-13202	SEP77-04104	Conventional	1978	SEQUIM AVE	pub_q
033020220045	Septic System Known / Required Inspection NOT Current	SOM2009-13203	SEP95-00371	Sand Line Pressure	1995	SEQUIM AVE	vac
033020220047	Septic System Known / Required Inspection NOT Current	SOM2009-13206	SEP82-00174	Conventional	1982	SEQUIM AVE	cml
033020229100	Septic System Known / Required Inspection NOT Current	SOM2009-13207	SEP95-00007	Pressure	1995	SEQUIM AVE	mh
033020229110	Septic System Known / Required Inspection NOT Current	SOM2009-13209	SEP95-00007	Pressure	1995	SEQUIM AVE	sfr
033020310060	Septic System Known / Required Inspection NOT Current	SOM2009-13210	SEP93-00353	Sand Line Pressure	1995	WASHINGTON ST	cml
033020319000	Septic System Known / Required Inspection NOT Current	SOM2009-13212	SEP83-00306	Conventional	1983	WASHINGTON ST	cml
033020410100	Septic System Known / Required Inspection NOT Current	SOM2009-13213	SEP84-10056	Conventional	1984	SEQUIM BAY RD	sfr
033020420002	Septic System Known / Required Inspection NOT Current	SOM2009-13214	SEP71-08633	Conventional	1972	HAMMOND ST	sfr
033020420072	Septic System Known / Required Inspection NOT Current	SOM2009-13215	SEP76-08364	Conventional	1976	WASHINGTON	cml
033020429090	Septic System Known / Required Inspection NOT Current	SOM2009-13216	SEP71-08077	Conventional	1971	HAMMOND ST	sfr
033020430000	Septic System Known / Required Inspection NOT Current	SOM2009-13219	SEP78-05720	Conventional	1978	STILL RD	sfr
033020440010	Septic System Known / Required Inspection NOT Current	SOM2009-13221	SEP96-00069	Pressure	1996	RHODEFER RD	cml
033020440090	Septic System Known / Required Inspection NOT Current	SOM2009-13222	SEP74-03019	Conventional	1974	FOXFIRE LN	vac
033020440110	Septic System Known / Required Inspection NOT Current	SOM2009-13225	sep97-np188	Conventional	1970	FOXFIRE LN	sfr
033020440150	Septic System Known / Required Inspection NOT Current	SOM2009-13226	SEP71-08657	Conventional	1971	FOXFIRE LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020440160	Septic System Known / Required Inspection NOT Current	SOM2009-13229	SEP89-00183	Pressure	1989	STILL RD	mh
033020440190	Septic System Known / Required Inspection NOT Current	SOM2009-13230	SEP74-03209	Conventional	1974	FOXFIRE LN	sfr
033020440200	Septic System Known / Required Inspection NOT Current	SOM2009-13231	SEP81-10023	Conventional	1981	FOXFIRE LN	sfr
033020449000	Septic System Known / Required Inspection NOT Current	SOM2009-13232	SEP88-00309	Pressure	1990	WASHINGTON ST.	cml
033020449010	Septic System Known / Required Inspection NOT Current	SOM2009-00012	SEP88-00284	Pressure	1989	WASHINGTON ST	cml
033020580320	Septic System Known / Required Inspection NOT Current	SOM2009-13249	SEP89-00245	Tank Only	1989	STILL RD	mh
033020580340	Septic System Known / Required Inspection NOT Current	SOM2009-13250	SEP2010-NP995	Tank Only	1970	BLAIR AVE	mh
033020580360	Septic System Known / Required Inspection NOT Current	SOM2008-00139	SEP75-09915	Tank Only	1976	BLAIR AVE	mh
033020580380	Septic System Known / Required Inspection NOT Current	SOM2009-13252	sep90-00296	Tank Only	1990	BLAIR AVE	mh
033020580400	Septic System Known / Required Inspection NOT Current	SOM2009-13253	SEP82-10047	Pressure	1988	BLAIR AVE	sfr
033020580420	Septic System Known / Required Inspection NOT Current	SOM2009-13254	SEP85-NP861	Tank Only	1985	BLAIR AVE	mh
033020580440	Septic System Known / Required Inspection NOT Current	SOM2009-13259	SEP75-08541	Tank Only	1975	BLAIR AVE	mh
033020580520	Septic System Known / Required Inspection NOT Current	SOM2009-13260	SEP72-NP901	Tank Only	1972	BLAIR AVE	mh
033020580540	Septic System Known / Required Inspection NOT Current	SOM2009-13272	SEP76-03249	Tank Only	1976	BLAIR AVE	mh
033020610200	Septic System Known / Required Inspection NOT Current	SOM2009-13273	SEP90-00717	Tank Only	1991	STILL RD	sfr
033020610210	Septic System Known / Required Inspection NOT Current	SOM2009-13274	SEP90-00713	Tank Only	1991	STILL RD	sfr
033020610220	Septic System Known / Required Inspection NOT Current	SOM2009-13275	SEP90-00716	Tank Only	1991	BLAIR AVE	sfr
033020610230	Septic System Known / Required Inspection NOT Current	SOM2009-13276	SEP90-00715	Tank Only	1991	BLAIR AVE	sfr
033020610280	Septic System Known / Required Inspection NOT Current	SOM2009-13277	SEP90-00714		1991	BLAIR AVE	sfr
033020610300	Septic System Known / Required Inspection NOT Current	SOM2009-13278	SEP90-00712	Tank Only	1991	BLAIR AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020610320	Septic System Known / Required Inspection NOT Current	SOM2009-13279	SEP76-NP910	Tank Only	1976	BLAIR AVE	sfr
033020610340	Septic System Known / Required Inspection NOT Current	SOM2009-13280	SEP77-NP900	Tank Only	1977	BLAIR AVE	sfr
033020610360	Septic System Known / Required Inspection NOT Current	SOM2009-13281	SEP77-NP870	Tank Only	1977	BLAIR AVE	sfr
033020610380	Septic System Known / Required Inspection NOT Current	SOM2009-13282	SEP69-NP860	Tank Only	1969	BLAIR AVE	sfr
033020610420	Septic System Known / Required Inspection NOT Current	SOM2009-13283	SEP72-06219	Tank Only	1972	BLAIR AVE	sfr
033020610440	Septic System Known / Required Inspection NOT Current	SOM2009-00010	SEP69-08100	Tank Only	1969	BLAIR AVE	sfr
033020610460	Septic System Known / Required Inspection NOT Current	SOM2009-00011	SEP76-38019	Tank Only	1976	BLAIR AVE	sfr
033020610500	Septic System Known / Required Inspection NOT Current	SOM2009-13291	SEP69-01535	Tank Only	1969	BLAIR AVE	sfr
033021118010	Septic System Known / Required Inspection NOT Current	SOM2009-13292	SEP73-02306	Conventional	1973	SCHMUCK RD	sfr_ag
033021118020	Septic System Known / Required Inspection NOT Current	SOM2009-13293	SEP99-00505	Pressure	2002	DAIRY VIEW LN	vac
033021118040	Septic System Known / Required Inspection NOT Current	SOM2009-13294	SEP99-00005	Mound	2000	DAIRY VIEW LN	sfr_ag
033021130000	Septic System Known / Required Inspection NOT Current	SOM2009-13296	SEP84-00223	Mound	1984	WASHINGTON HARBOR RD	mh
033021130020	Septic System Known / Required Inspection NOT Current	SOM2009-13297	SEP75-08974	Conventional	1975	WASHINGTON HARBOR RD	sfr
033021130030	Septic System Known / Required Inspection NOT Current	SOM2009-13298	SEP68-00848	Conventional	1968	WASHINGTON HARBOR RD	sfr
033021130040	Septic System Known / Required Inspection NOT Current	SOM2009-13299	SEP71-19743	Conventional	1971	WASHINGTON HARBOR RD	mh
033021140010	Septic System Known / Required Inspection NOT Current	SOM2009-13300	SEP86-00189	Tank Only	1987	BAYWOOD VILLAGE RD	mh
033021140020	Septic System Known / Required Inspection NOT Current	SOM2009-13301	SEP82-10078	Conventional	1982	WASHINGTON HARBOR RD	sfr
033021140060	Septic System Known / Required Inspection NOT Current	SOM2004-00108	SEP83-00156	Pressure	1983	BAYWOOD VILLAGE RD	mhp
033021149010	Septic System Known / Required Inspection NOT Current	SOM2009-13306	SEP2002-00308	ATU	2003	WASHINGTON HARBOR RD	sfr
033021149020	Septic System Known / Required Inspection NOT Current	SOM2009-13307	SEP90-00334	Pressure	1990	WASHINGTON HARBOR RD	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021149030	Septic System Known / Required Inspection NOT Current	SOM2009-13308	SEP90-00474	Conventional	1992	BAYWOOD VILLAGE RD	sfr
033021149040	Septic System Known / Required Inspection NOT Current	SOM2009-13309	SEP76-08585	Pump to Gravity	1976	BAYWOOD VILLAGE RD	sfr
033021149050	Septic System Known / Required Inspection NOT Current	SOM2009-13310	SEP70-09005	Conventional	1970	BAYWOOD VILLAGE RD	mh
033021229040	Septic System Known / Required Inspection NOT Current	SOM2009-13318	SEP80-00601	Conventional	1981	BELL MEADOW LN	sfr
033021310050	Septic System Known / Required Inspection NOT Current	SOM2009-13319	SEP91-00548	Pressure	1992	SEQUIM BAY RD	mh
033021320015	Septic System Known / Required Inspection NOT Current	SOM2009-13321	SEP83-00158	Mound	1983	SEQUIM BAY RD	pub
033021320070	Septic System Known / Required Inspection NOT Current	SOM2009-13326	SEP79-72079	Conventional	1979	OLD COYOTE WY	tmbr
033021329070	Septic System Known / Required Inspection NOT Current	SOM2009-13327	SEP94-00008	Conventional	1994	SEQUIM BAY RD	sfr
033021339010	Septic System Known / Required Inspection NOT Current	SOM2009-13329	SEP96-00401	Pressure	1996	WASHINGTON ST	cml
033021420050	Septic System Known / Required Inspection NOT Current	SOM2009-13330	SEP2007-00079	Pressure	2007	SEQUIM BAY RD	sfr
033021420075	Septic System Known / Required Inspection NOT Current	SOM2009-13331	SEP75-09667	Conventional	1975	WASHINGTON HARBOR RD	mh
033021420080	Septic System Known / Required Inspection NOT Current	SOM2009-13332	SEP81-10021	Conventional	1981	WASHINGTON HARBOR RD	sfr
033021420090	Septic System Known / Required Inspection NOT Current	SOM2009-13333	SEP68-07792	Conventional	1968	WASHINGTON HARBOR RD	mh
033021420100	Septic System Known / Required Inspection NOT Current	SOM2009-13335	SEP91-00146	Conventional	1991	WASHINGTON HARBOR RD	sfr
033021420120	Septic System Known / Required Inspection NOT Current	SOM2009-13336	SEP73-02007	Conventional	1973	WASHINGTON HARBOR RD	sfr
033021429000	Septic System Known / Required Inspection NOT Current	SOM2009-13337	SEP86-10033	Conventional	1986	SEQUIM BAY RD	mh
033021429020	Septic System Known / Required Inspection NOT Current	SOM2009-13338	SEP2002-00300	Sand Line Pressure	2007	SKUNK HOLLOW RD	sfr
033021429030	Septic System Known / Required Inspection NOT Current	SOM2009-13339	SEP91-00238	Conventional	1991	SEQUIM BAY RD	sfr
033021429040	Septic System Known / Required Inspection NOT Current	SOM2009-13340	SEP94-00036	Conventional	1995	SKUNK HOLLOW RD	sfr
033021429050	Septic System Known / Required Inspection NOT Current	SOM2009-13341	SEP92-00573	Pressure	1994	SEQUIM BAY RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021429060	Septic System Known / Required Inspection NOT Current	SOM2009-13342	SEP90-00335	Conventional	1990	SKUNK HOLLOW RD	sfr
033021429070	Septic System Known / Required Inspection NOT Current	SOM2009-13343	SEP94-00096	Sand Line Pressure	1994	SKUNK HOLLOW RD	sfr
033021430060	Septic System Known / Required Inspection NOT Current	SOM2009-13347	SEP96-00501	Mound	2000	BELL BOTTOM RD	mh
033021440040	Septic System Known / Required Inspection NOT Current	SOM2009-13348	SEP87-10085	Pressure	1988	SEQUIM BAY RD	sfr
033021440050	Septic System Known / Required Inspection NOT Current	SOM2009-13350	SEP74-08404	Conventional	1974	SEQUIM BAY RD	sfr
033021440170	Septic System Known / Required Inspection NOT Current	SOM2009-13351	SEP2003-00427	Pressure	2004	KEELER RD	sfr
033021449000	Septic System Known / Required Inspection NOT Current	SOM2009-13468	SEP88-00084	Conventional	1990	KEELER RD	sfr
033021520500	Septic System Known / Required Inspection NOT Current	SOM2009-13470	SEP2001-00006	Biofilter	2001	MORRISON LOOP	sfr
033022220010	Septic System Known / Required Inspection NOT Current	SOM2009-13471	SEP2000-00017	Sand Line Pressure	2000		sfr
033022220200	Septic System Known / Required Inspection NOT Current	SOM2009-13472	SEP96-00360	Conventional	1996	WASHINGTON HARBOR RD	sfr
033022230060	Septic System Known / Required Inspection NOT Current	SOM2009-13473	SEP93-00443	Sand Line Pressure	1994	WASHINGTON HARBOR RD	sfr
033022230070	Septic System Known / Required Inspection NOT Current	SOM2009-13474	SEP71-08175	Conventional	1971	BAYWOOD VILLAGE RD	sfr
033022230080	Septic System Known / Required Inspection NOT Current	SOM2009-31593	SEP90-00644	Conventional	1991	WASHINGTON HARBOR RD	sfr_ag
033022230100	Septic System Known / Required Inspection NOT Current	SOM2009-13477	SEP2000-00264	Conventional	2001	TANAGER LANE	sfr
033022310050	Septic System Known / Required Inspection NOT Current	SOM2009-13478	SEP89-00528	Conventional	1990	PUFFIN ROCK RD	tmbr
033022310060	Septic System Known / Required Inspection NOT Current	SOM2009-13479	SEP2006-00092	Pressurized Deep Trench	2007	PUFFIN ROCK RD	vac
033022310070	Septic System Known / Required Inspection NOT Current	SOM2009-13480	SEP96-00486	Conventional	1997	PUFFIN ROCK RD	mh
033022310080	Septic System Known / Required Inspection NOT Current	SOM2009-13481	SEP95-00077	Pressure	1995	PUFFIN ROCK RD	sfr
033022310090	Septic System Known / Required Inspection NOT Current	SOM2009-13482	SEP95-00067	Sand Line Pressure	1995	PUFFIN ROCK RD	mh
033022310100	Septic System Known / Required Inspection NOT Current	SOM2009-13483	SEP96-00250	Pressure	1998	PUFFIN ROCK RD	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033022310110	Septic System Known / Required Inspection NOT Current	SOM2009-13484	SEP94-00229	Pressure	1994	JUNCO RD	mh
033022310120	Septic System Known / Required Inspection NOT Current	SOM2009-13485	SEP98-00083	Pressure	1998	JUNCO RD	sfr
033022310140	Septic System Known / Required Inspection NOT Current	SOM2009-13486	SEP93-00554	Pressurized Deep Trench	1995	ENCHANTMENT WY	sfr
033022319020	Septic System Known / Required Inspection NOT Current	SOM2009-13487	SEP85-00039	Conventional	1985	JUNCO RD	sfr
033022320040	Septic System Known / Required Inspection NOT Current	SOM2009-13488	SEP85-00094	Pressure	1985	TANAGER LANE	sfr
033022320050	Septic System Known / Required Inspection NOT Current	SOM2009-13489	SEP99-00434	Sand Line Pressure	2000	BIG FOOT LN	sfr
033022320060	Septic System Known / Required Inspection NOT Current	SOM2009-13490	SEP93-00471	Pressure	1994	BIG FOOT LN	sfr
033022320070	Septic System Known / Required Inspection NOT Current	SOM2009-13492	SEP69-01057	Conventional	1969	BIG FOOT LN	mh
033022320110	Septic System Known / Required Inspection NOT Current	SOM2004-00099	sep83-00185	Pressure	1984	BIG FOOT LN	vac
033022320130	Septic System Known / Required Inspection NOT Current	SOM2009-13497	SEP2003-00320	Biofilter	2004	TANAGER LN	sfr
033022329000	Septic System Known / Required Inspection NOT Current	SOM2009-13498	SEP82-10019	Conventional	1982	BIG FOOT LN	sfr
033022329010	Septic System Known / Required Inspection NOT Current	SOM2009-13499	SEP78-05599	Conventional	1978	BIG FOOT LN	mh
033022330050	Septic System Known / Required Inspection NOT Current	SOM2009-13502	SEP98-00429	Conventional	1998	SEQUIM BAY RD	sfr
033022330110	Septic System Known / Required Inspection NOT Current	SOM2009-13506	SEP91-00456	Conventional	1992	KEELER RD	sfr
033022330190	Septic System Known / Required Inspection NOT Current	SOM2009-13507	SEP99-00526	Conventional	2000	BAY RIDGE PL	sfr
033022330200	Septic System Known / Required Inspection NOT Current	SOM2009-13508	SEP91-00109	Pressure	1992	BAY RIDGE PL	sfr
033022330210	Septic System Known / Required Inspection NOT Current	SOM2009-13509	SEP-73-07146	Conventional	1973	BAY RIDGE PL	sfr
033022339000	Septic System Known / Required Inspection NOT Current	SOM2009-13510	SEP98-00179	Conventional	2001	SEQUIM BAY RD	sfr
033022339030	Septic System Known / Required Inspection NOT Current	SOM2009-13511	SEP90-00379	Conventional	1990	OVER ST	mh
033022339040	Septic System Known / Required Inspection NOT Current	SOM2009-13512	SEP91-00068	Conventional	1991	OVER ST	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033022339050	Septic System Known / Required Inspection NOT Current	SOM2009-13513	SEP83-00295	Conventional	1984	OVER ST	sfr
033022339060	Septic System Known / Required Inspection NOT Current	SOM2009-13515	SEP94-00226	Conventional	1994	OVER ST	mh
033022339080	Septic System Known / Required Inspection NOT Current	SOM2009-13516	SEP2001-00273	Pressure	2002	SAILORS LN	sfr
033022339090	Septic System Known / Required Inspection NOT Current	SOM2009-00517	SEP87-00188	Conventional	1987	SAILORS LN	sfr
033022339100	Septic System Known / Required Inspection NOT Current	SOM2009-13518	SEP94-00157	Conventional	1994	SAILORS LN	sfr
033022339110	Septic System Known / Required Inspection NOT Current	SOM2009-13519	SEP94-00139	Sand Line Pressure	1994	SEQUIM BAY RD	sfr
033022339120	Septic System Known / Required Inspection NOT Current	SOM2009-13520	SEP90-00536	Pressurized Deep Trench	1991	SEQUIM BAY RD	sfr
033022340000	Septic System Known / Required Inspection NOT Current	SOM2009-13521	SEP91-00460	Conventional	1991	SEQUIM BAY RD	sfr
033022349010	Septic System Known / Required Inspection NOT Current	SOM2009-13522	SEP89-00211	Conventional	1989	SEQUIM BAY RD	sfr
033022349020	Septic System Known / Required Inspection NOT Current	SOM2009-13523	SEP87-00300	Conventional	1989	SEQUIM BAY RD	sfr
033022349030	Septic System Known / Required Inspection NOT Current	SOM2012-00122	SEP90-00313	Pressure	1992	SEQUIM BAY RD	sfr
033027210050	Septic System Known / Required Inspection NOT Current	SOM2009-13645	SEP69-01592	Conventional	1969	SEQUIM BAY RD	sfr
033027210120	Septic System Known / Required Inspection NOT Current	SOM2009-13647	SEP80-10087	Conventional	1980	SEQUIM BAY RD	sfr
033027219020	Septic System Known / Required Inspection NOT Current	SOM2009-13648	SEP87-00325	Conventional	1988	SEQUIM BAY RD	sfr
033027219030	Septic System Known / Required Inspection NOT Current	SOM2009-13654	SEP89-00467	Conventional	1990	SEQUIM BAY RD	mh
033027219100	Septic System Known / Required Inspection NOT Current	SOM2009-13655	SEP99-00163	Sand Line Pressure	1999	SEQUIM BAY RD	sfr
033027220010	Septic System Known / Required Inspection NOT Current	SOM2009-13656	SEP71-09942	Conventional	1971	KEELER RD	sfr
033027230140	Septic System Known / Required Inspection NOT Current	SOM2009-13657	SEP2011-00090	Pressure	2011	SPY GLASS LN	sfr
033027239030	Septic System Known / Required Inspection NOT Current	SOM2009-13659	SEP95-00414	Conventional	1995	SPY GLASS LN	sfr
033027239060	Septic System Known / Required Inspection NOT Current	SOM2009-13660	SEP87-00061	Conventional	1988	SPY GLASS LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027239070	Septic System Known / Required Inspection NOT Current	SOM2009-13661	SEP2000-00054	Sand Line Pressure	2000	SPY GLASS LN	sfr
033027239080	Septic System Known / Required Inspection NOT Current	SOM2009-13662	SEP2000-00263	Sand Line Pressure	2000	SPY GLASS LN	sfr
033027239090	Septic System Known / Required Inspection NOT Current	SOM2009-13663	SEP2000-00445	Sand Line Pressure	2001	SPY GLASS LN	sfr
033027240000	Septic System Known / Required Inspection NOT Current	SOM2009-13664	SEP90-NP097	Conventional	1960	SPY GLASS LN	sfr
033027240100	Septic System Known / Required Inspection NOT Current	SOM2009-13665	SEP2006-00116	Conventional	2008	MARINERS VIEW CT	sfr
033027249010	Septic System Known / Required Inspection NOT Current	SOM2009-13667	SEP82-00233	Conventional	1982	SPY GLASS LN	vac
033027249035	Septic System Known / Required Inspection NOT Current	SOM2009-13668	SEP96-00079	Conventional	1996	SPY GLASS LN	sfr
033027249045	Septic System Known / Required Inspection NOT Current	SOM2009-13671	SEP86-00290	Conventional	1986	SPYGLASS	sfr
033027249070	Septic System Known / Required Inspection NOT Current	SOM2009-13672	SEP2001-00269	Pressure	2002	MARINERS VIEW CT	sfr
033027249090	Septic System Known / Required Inspection NOT Current	SOM2009-13673	SEP2006-00406	Pressure	2007	SPY GLASS LN	sfr
033027249100	Septic System Known / Required Inspection NOT Current	SOM2009-13674	SEP98-00422	Sand Line Pressure	2000	SPY GLASS LN	sfr
033027249110	Septic System Known / Required Inspection NOT Current	SOM2009-13675	SEP99-00114	Sand Line Pressure	2010	SPY GLASS LN	sfr
033027249120	Septic System Known / Required Inspection NOT Current	SOM2009-13676	SEP99-00170	Conventional	1999	SPY GLASS LN	sfr
033027249150	Septic System Known / Required Inspection NOT Current	SOM2009-13678	SEP2004-00258	Sand Line Pressure	2005	SPYGLASS LN	sfr
033027330040	Septic System Known / Required Inspection NOT Current	SOM2009-13680	SEP96-00232	Conventional	1996	HAPPY VALLEY RD	sfr
033027420050	Septic System Known / Required Inspection NOT Current	SOM2009-13682	SEP86-10064	Conventional	1986	SEQUIM BAY RD	ldg
033027420170	Septic System Known / Required Inspection NOT Current	SOM2009-13685	SEP74-07072	Conventional	1973	SEQUIM BAY RD	sfr
033027429010	Septic System Known / Required Inspection NOT Current	SOM2009-13686	SEP90-00410	Conventional	1990	SEQUIM BAY RD	sfr
033027429020	Septic System Known / Required Inspection NOT Current	SOM2009-13687	SEP98-00128	Conventional	1999	SEQUIM BAY RD	sfr
033027430100	Septic System Known / Required Inspection NOT Current	SOM2009-13689	SEP91-00078	Pressure	1992	SEQUIM BAY RD	wtr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027500000	Septic System Known / Required Inspection NOT Current	SOM2009-13690	SEP85-00314	Pump to Gravity	1987	SEQUIM BAY RD	sfr
033027500003	Septic System Known / Required Inspection NOT Current	SOM2009-13691	SEP86-10051	Pressure	1986	SEQUIM BAY RD	sfr
033027500018	Septic System Known / Required Inspection NOT Current	SOM2009-13692	SEP87-10044	Conventional	1989	FORREST RD	sfr
033027500021	Septic System Known / Required Inspection NOT Current	SOM2009-13694	SEP91-00589	Sand Line Pressure	1992	FORREST RD	sfr
033027500036	Septic System Known / Required Inspection NOT Current	SOM2009-13699	SEP2004-00080	Pressure	2004	FORREST RD	sfr
033027509000	Septic System Known / Required Inspection NOT Current	SOM2009-13700	SEP91-00095	Conventional	1991	FORREST RD	res_u
033027509010	Septic System Known / Required Inspection NOT Current	SOM2009-13703	SEP77-01112	Conventional	1977	SEQUIM BAY RD	sfr
033027510212	Septic System Known / Required Inspection NOT Current	SOM2009-13704	SEP75-08803	Conventional	1976	SEQUIM BAY RD	sfr
033027510218	Septic System Known / Required Inspection NOT Current	SOM2009-13705	sep2006-np394	Conventional	1960	SEQUIM BAY RD	sfr
033027510224	Septic System Known / Required Inspection NOT Current	SOM2009-13707	SEP75-08430	Conventional	1975	SEQUIM BAY RD	sfr
033027510236	Septic System Known / Required Inspection NOT Current	SOM2009-13708	SEP98-00178	Pressure	1999	SEQUIM BAY RD	sfr
033027510242	Septic System Known / Required Inspection NOT Current	SOM2009-13709	SEP2011-00098	Biofilter	2011	SEQUIM BAY RD	sfr
033027510248	Septic System Known / Required Inspection NOT Current	SOM2009-13710	SEP96-00394	Pressure	1997	SEQUIM BAY RD	sfr
033027510254	Septic System Known / Required Inspection NOT Current	SOM2009-13711	SEP2002-00272	Pressure	2002	SEQUIM BAY RD	sfr
033027510266	Septic System Known / Required Inspection NOT Current	SOM2009-13712	SEP2010-NP711	Conventional	1970	SEQUIM BAY RD	sfr
033027520000	Septic System Known / Required Inspection NOT Current	SOM2009-13717	SEP73-07900	Conventional	1973	SEQUIM BAY RD	vac
033027530050	Septic System Known / Required Inspection NOT Current	SOM2009-13718	SEP98-00231	Pressure	1998	SPY GLASS LN	sfr
033027530060	Septic System Known / Required Inspection NOT Current	SOM2009-13719	SEP96-00427	Conventional	1997	MARINERS VIEW DR	sfr
033027530070	Septic System Known / Required Inspection NOT Current	SOM2009-13720	SEP2011-00038	Conventional	2011	SPYGLASS LN	sfr
033027530080	Septic System Known / Required Inspection NOT Current	SOM2009-13724	SEP2001-00438	Pressurized Deep Trench	2003	SPY GLASS LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028119030	Septic System Known / Required Inspection NOT Current	SOM2009-13725	SEP90-00798	Conventional	1992	KEELER RD	sfr
033028129010	Septic System Known / Required Inspection NOT Current	SOM2009-13726	SEP84-00379	Conventional	1984	WASHINGTON HARBOR LP	sfr
033028129030	Septic System Known / Required Inspection NOT Current	SOM2009-13727	SEP89-00218	Conventional	1989	WASHINGTON HARBOR LP	sfr
033028129070	Septic System Known / Required Inspection NOT Current	SOM2009-13729	SEP97-00235	Pressure	1997	BELL BOTTOM RD	sfr
033028130250	Septic System Known / Required Inspection NOT Current	SOM2009-13731	SEP86-00152	Conventional	1986	SIMDARS RD	sfr
033028140020	Septic System Known / Required Inspection NOT Current	SOM2009-13732	SEP86-10028	Conventional	1986	LOFGRIN RD	sfr
033028210100	Septic System Known / Required Inspection NOT Current	SOM2009-13733	SEP92-00511	Mound	1993	WASHINGTON ST	sfr
033028210250	Septic System Known / Required Inspection NOT Current	SOM2009-13734	SEP80-00448	Conventional	1980	WASHINGTON HARBOR LP	mh
033028219010	Septic System Known / Required Inspection NOT Current	SOM2009-13735	SEP79-41679	Conventional	2010	WASHINGTON ST	sfr
033028219020	Septic System Known / Required Inspection NOT Current	SOM2009-13737	SEP83-00203	Conventional	1983	WASHINGTON ST	sfr
033028349020	Septic System Known / Required Inspection NOT Current	SOM2009-13738	SEP72-09219	Conventional	1972	SIMDARS RD	sfr
033028349030	Septic System Known / Required Inspection NOT Current	SOM2009-13739	SEP71-08634	Conventional	1971	SIMDARS RD	vac
033028349040	Septic System Known / Required Inspection NOT Current	SOM2009-13740	SEP72-09401	Conventional	1972	SIMDARS RD	vac
033028349050	Septic System Known / Required Inspection NOT Current	SOM2009-13741	SEP79-05400	Conventional	1979	SIMDARS RD	vac
033028349060	Septic System Known / Required Inspection NOT Current	SOM2009-13742	SEP94-00212	Sand Line Pressure	1995	SIMDARS RD	sfr
033028430100	Septic System Known / Required Inspection NOT Current	SOM2009-13743	SEP84-10123	Conventional	1985	CLEARVIEW LN	sfr
033028430350	Septic System Known / Required Inspection NOT Current	SOM2009-13744	SEP74-02532	Conventional	1976	CLEARVIEW LN	sfr
033028430450	Septic System Known / Required Inspection NOT Current	SOM2009-13745	SEP71-61471	Conventional	1971	CLEARVIEW LN	sfr
033028430550	Septic System Known / Required Inspection NOT Current	SOM2009-13746	SEP89-00381	Conventional	1989	SIMDARS RD	res_u
033028439010	Septic System Known / Required Inspection NOT Current	SOM2009-13747	SEP2002-NP334	Conventional	1965	SIMDARS RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028439020	Septic System Known / Required Inspection NOT Current	SOM2009-13748	SEP99-00320	Mound	2000	CLEARVIEW LN	sfr
033028440050	Septic System Known / Required Inspection NOT Current	SOM2009-13749	SEP2011-00083	Mound	2011	HAPPY VALLEY RD	sfr
033028440100	Septic System Known / Required Inspection NOT Current	SOM2009-13752	SEP78-05300	Conventional	1978	HAPPY VALLEY RD	
033028440450	Septic System Known / Required Inspection NOT Current	SOM2009-13753	SEP2003-00179	Pressure	2003	HAPPY VALLEY RD	sfr
033028449000	Septic System Known / Required Inspection NOT Current	SOM2009-13754	SEP79-00106	Conventional	1981	HAPPY VALLEY RD	sfr
033028449010	Septic System Known / Required Inspection NOT Current	SOM2009-13755	SEP97-00053	Mound	1997	HAPPY VALLEY RD	sfr
033028449020	Septic System Known / Required Inspection NOT Current	SOM2009-13760	SEP86-00300	Pressure	1988	HAPPY VALLEY RD	mh
033029110200	Septic System Known / Required Inspection NOT Current	SOM2009-13761	SEP74-03118	Conventional	1974	BROWNFIELD RD	sfr
033029130150	Septic System Known / Required Inspection NOT Current	SOM2009-13801	SEP93-00386	Mound	1993	CLARA CREST LN	sfr
033029249005	Septic System Known / Required Inspection NOT Current	SOM2009-13802	SEP76-03269	Conventional	1976	TOKEN LN	sfr
033029249015	Septic System Known / Required Inspection NOT Current	SOM2010-00213	SEP88-00132	Mound	1988	TOKEN LN	sfr
033029249030	Septic System Known / Required Inspection NOT Current	SOM2009-13823	SEP2010-00182	Biofilter	2010	TOKEN LN	sfr
033029329000	Septic System Known / Required Inspection NOT Current	SOM2009-13944	SEP98-NP389	Conventional	1961	SEQUIM AVE	sfr
033030110000	Septic System Known / Required Inspection NOT Current	SOM2009-13945	SEP86-10069	Conventional	1986	THIRD AVE	sfr_ag
033030140100	Septic System Known / Required Inspection NOT Current	SOM2009-13946	SEP88-00250	Conventional	1988	THIRD AVE	sfr
033030140220	Septic System Known / Required Inspection NOT Current	SOM2009-13947	SEP91-00222	Pressure	1991	THIRD AVE	sfr
033030140240	Septic System Known / Required Inspection NOT Current	SOM2009-13948	SEP74-06429	Conventional	1975	THIRD AVE	sfr
033030220030	Septic System Known / Required Inspection NOT Current	SOM2009-13952	SEP73-07395	Conventional	1973	DAISY LN	vac
033030220130	Septic System Known / Required Inspection NOT Current	SOM2009-13954	SEP94-00443	Sand Line Pressure	1994	DAISY LN	mh
033030220150	Septic System Known / Required Inspection NOT Current	SOM2009-13955	SEP78-02729	Conventional	1978	DAISY LN	sfr

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033030220170	Septic System Known / Required Inspection NOT Current	SOM2009-13956	SEP68-08768	Conventional	1968	SEVENTH ST	mh
033030220180	Septic System Known / Required Inspection NOT Current	SOM2009-13958	SEP73-06714	Conventional	1973	DAISY LN	mh
033030229010	Septic System Known / Required Inspection NOT Current	SOM2009-00961	SEP80-00070	Conventional	1980	GILLIS AVE	mh
033030229020	Septic System Known / Required Inspection NOT Current	SOM2009-13960	SEP69-11022	Conventional	1969	SEVENTH ST	sfr
033030229030	Septic System Known / Required Inspection NOT Current	SOM2009-13961	SEP80-00423	Conventional	1980	GILLIS AVE	mh
033030229040	Septic System Known / Required Inspection NOT Current	SOM2009-13962	SEP79-00884	Conventional	1980	GILLIS AVE	mh
033030229050	Septic System Known / Required Inspection NOT Current	SOM2009-13963	SEP83-00251	Conventional	1983	GILLIS AVE	mh
033030229060	Septic System Known / Required Inspection NOT Current	SOM2009-13964	SEP79-00794	Conventional	1981	GILLIS AVE	sfr
033030229070	Septic System Known / Required Inspection NOT Current	SOM2009-13965	SEP89-00396	Pressure	1990	KETTY LN	sfr
033030229080	Septic System Known / Required Inspection NOT Current	SOM2009-13966	SEP86-00122	Conventional	1986	KETTY LN	mh
033030229100	Septic System Known / Required Inspection NOT Current	SOM2009-13967	SEP79-00910	Conventional	1979	DAISY LN	mh
033030229110	Septic System Known / Required Inspection NOT Current	SOM2009-13968	SEP69-NP021	Conventional	1969	SEVENTH ST	sfr
033030229120	Septic System Known / Required Inspection NOT Current	SOM2009-13969	SEP80-00281	Conventional	1980	SEVENTH ST	mh
033030229130	Septic System Known / Required Inspection NOT Current	SOM2009-13970	SEP88-00194	Pressure	1990	DAISY LN	mh
033030229140	Septic System Known / Required Inspection NOT Current	SOM2009-13971	SEP81-00192	Conventional	1981	GILLIS AVE	mh
033030229150	Septic System Known / Required Inspection NOT Current	SOM2009-13973	SEP89-00596	Pressure	1990	KETTY LN	mh
033030229170	Septic System Known / Required Inspection NOT Current	SOM2009-13974	SEP82-00192	Conventional	1982	DAISY LN	mh
033030229190	Septic System Known / Required Inspection NOT Current	SOM2009-13975	SEP74-02528	Conventional	1974	KETTY LN	mh
033030229200	Septic System Known / Required Inspection NOT Current	SOM2009-13979	sep85-np828	Conventional	1965	DAISY LN	mh
033030310080	Septic System Known / Required Inspection NOT Current	SOM2009-13980	SEP96-00527	Mound	1997	SEVENTH AVE	sfr

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033030310100	Septic System Known / Required Inspection NOT Current	SOM2009-13981	SEP97-00278	Sand Line Pressure	1999	SEVENTH AVE	sfr
033030310120	Septic System Known / Required Inspection NOT Current	SOM2009-13984	SEP97-00277	Sand Line Pressure	1999	SEVENTH AVE	sfr
033030330100	Septic System Known / Required Inspection NOT Current	SOM2010-00192	sep70-np277	Conventional	1970	HAPPY VALLEY RD	sfr
033030339010	Septic System Known / Required Inspection NOT Current	SOM2009-13986	SEP2002-00222	ATU	2003	SEVENTH AVE	sfr
033030340010	Septic System Known / Required Inspection NOT Current	SOM2009-13988	SEP77-01072	Conventional	1977	PEACEFUL MEADOW LN	sfr
033030340040	Septic System Known / Required Inspection NOT Current	SOM2009-13989	SEP86-00282	Conventional	1987	HAPPY VALLEY RD	sfr
033030340050	Septic System Known / Required Inspection NOT Current	SOM2009-13990	SEP84-00246	Conventional	1985	PEACEFUL MEADOW LN	sfr
033030340120	Septic System Known / Required Inspection NOT Current	SOM2008-00003	SEP90-00277	Pressure	1991	HAPPY VALLEY RD	mh
033030349020	Septic System Known / Required Inspection NOT Current	SOM2009-13992	SEP2000-00190	ATU	2000	SEVENTH AVE	sfr
033030349030	Septic System Known / Required Inspection NOT Current	SOM2009-13994	SEP89-00589	Sand Filter Mound	1990	SEVENTH AVE	sfr
033030349080	Septic System Known / Required Inspection NOT Current	SOM2009-13995	SEP74-05287	Conventional	1975	SEVENTH AVE	vac
033030349100	Septic System Known / Required Inspection NOT Current	SOM2009-13996	SEP96-00440	Pressure	1996	SEVENTH AVE	sfr
033030410000	Septic System Known / Required Inspection NOT Current	SOM2009-13997	SEP86-00176	Conventional	1986	SEQUIM AVE	res_u
033030410040	Septic System Known / Required Inspection NOT Current	SOM2009-14000	SEP87-NP870	Conventional	1970	THIRD AVE	sfr
033030410080	Septic System Known / Required Inspection NOT Current	SOM2009-14001	SEP88-00331	Conventional	1988	THIRD AVE	mh
033030410110	Septic System Known / Required Inspection NOT Current	SOM2009-14003	SEP97-00240	Conventional	1997	STEPHENS PL	mh
033030410130	Septic System Known / Required Inspection NOT Current	SOM2009-14008	SEP76-03455	Conventional	1976	THIRD AVE	mh
033030419060	Septic System Known / Required Inspection NOT Current	SOM2009-14009	SEP80-01180	Conventional	1982	THIRD AVE	sfr
033030420000	Septic System Known / Required Inspection NOT Current	SOM2009-14011	SEP76-03939	Conventional	1976	RESERVOIR RD	mfr
033030420050	Septic System Known / Required Inspection NOT Current	SOM2009-14012	SEP70-08726	Conventional	1970	THIRD ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030420060	Septic System Known / Required Inspection NOT Current	SOM2009-01708	SEP83-10048	Conventional	1983	THIRD AVE	sfr
033030420070	Septic System Known / Required Inspection NOT Current	SOM2009-14013	SEP74-02634	Conventional	1974	THIRD AVE	res_u
033030420080	Septic System Known / Required Inspection NOT Current	SOM2009-14019	SEP80-10108	Conventional	1980	THIRD AVE	mh
033030420140	Septic System Known / Required Inspection NOT Current	SOM2009-14020	sep90-np239	Conventional	1970	THIRD AVE	sfr
033030420150	Septic System Known / Required Inspection NOT Current	SOM2009-14021	SEP68-00188	Conventional	1968	RESERVOIR RD	sfr
033030430010	Septic System Known / Required Inspection NOT Current	SOM2009-14023	SEP74-03444	Conventional	1974	MISTY MEADOW LN	sfr
033030430060	Septic System Known / Required Inspection NOT Current	SOM2009-14026	SEP86-00131	Conventional	1988	MISTY MEADOW LN	sfr
033030439020	Septic System Known / Required Inspection NOT Current	SOM2009-14027	SEP92-00088	Pressure	1992	HAPPY VALLEY RD	sfr
033030439030	Septic System Known / Required Inspection NOT Current	SOM2009-14028	SEP85-00308	Conventional	1985	HAPPY VALLEY RD	mh
033030439040	Septic System Known / Required Inspection NOT Current	SOM2009-14029	SEP80-01312	Conventional	1980	HAPPY VALLEY RD	sfr
033030439050	Septic System Known / Required Inspection NOT Current	SOM2009-14030	SEP86-00190	Pressure	1986	MISTY MEADOW LN	mh
033030439080	Septic System Known / Required Inspection NOT Current	SOM2009-14031	SEP99-00255	Sand Filter Pressure	1999	MISTY MEADOW LN	sfr
033030439090	Septic System Known / Required Inspection NOT Current	SOM2009-14032	SEP2007-00032	Pressure	2008	MISTY MEADOW LN	sfr
033030440020	Septic System Known / Required Inspection NOT Current	SOM2009-14036	SEP86-10085	Conventional	1986	THIRD AVE	sfr
033030449010	Septic System Known / Required Inspection NOT Current	SOM2009-14037	SEP84-10055	Conventional	1984	HAPPY VALLEY RD	sfr
033030449030	Septic System Known / Required Inspection NOT Current	SOM2009-14038	SEP89-00612	Conventional	1990	THIRD AVE	sfr
033030449040	Septic System Known / Required Inspection NOT Current	SOM2009-14039	SEP94-00450	Pressure	1995	THIRD AVE S	sfr
033031120070	Septic System Known / Required Inspection NOT Current	SOM2009-14040	SEP90-00293	Mound	1992	OSPREY GLEN RD	sfr
033031120300	Septic System Known / Required Inspection NOT Current	SOM2009-14041	SEP95-00084	Pressure	1996	OSPREY GLEN RD	sfr
033031129000	Septic System Known / Required Inspection NOT Current	SOM2009-14042	SEP85-10059	Conventional	1986	HAPPY VALLEY RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033031129020	Septic System Known / Required Inspection NOT Current	SOM2009-14043	SEP84-00174	Sand Line Pressure	1986	HAPPY VALLEY RD	sfr
033031129030	Septic System Known / Required Inspection NOT Current	SOM2009-00099	SEP99-00323	Sand Filter Mound	1999	OSPREY GLEN RD	sfr
033031129060	Septic System Known / Required Inspection NOT Current	SOM2009-14046	SEP2009-00100	Biofilter	2011	OSPREY GLEN RD	sfr
033031129070	Septic System Known / Required Inspection NOT Current	SOM2009-14047	SEP98-00004	Mound	1998	OSPREY GLEN RD	sfr
033031129090	Septic System Known / Required Inspection NOT Current	SOM2005-00147	SEP86-00234	Pressure	1988	OSPREY GLEN RD	sfr
033031129100	Septic System Known / Required Inspection NOT Current	SOM2009-14049	sep2002-00464	Biofilter	2005	OSPREY GLEN RD	sfr
033031129110	Septic System Known / Required Inspection NOT Current	SOM2009-14050	SEP94-00330	Sand Line Pressure	1994	OSPREY GLEN RD	sfr
033031129120	Septic System Known / Required Inspection NOT Current	SOM2009-14051	SEP98-00156	Sand Line Pressure	1999	OSPREY GLEN RD	sfr
033031129130	Septic System Known / Required Inspection NOT Current	SOM2009-14055	SEP2002-00215	Pressure	2003	OSPREY GLEN RD	sfr
033031139000	Septic System Known / Required Inspection NOT Current	SOM2009-14056	SEP93-00328	Pressure	1994	OSPREY GLEN RD	sfr
033031139010	Septic System Known / Required Inspection NOT Current	SOM2009-00228	SEP93-00329	Conventional	1994	OSPREY GLEN RD	sfr
033031139020	Septic System Known / Required Inspection NOT Current	SOM2004-00105	SEP96-00507	Pressure	1997	OSPREY GLEN RD	sfr
033031139030	Septic System Known / Required Inspection NOT Current	SOM2009-00067	SEP2002-00156	ATU	2003	OSPREY GLEN RD	sfr
033031139040	Septic System Known / Required Inspection NOT Current	SOM2009-14060	SEP2006-00111	Sand Filter Pressure	2008	OSPREY GLEN RD	sfr
033031140020	Septic System Known / Required Inspection NOT Current	SOM2009-14061	SEP94-00186	Mound	1994	NICKI LN	vac
033031140030	Septic System Known / Required Inspection NOT Current	SOM2009-14062	SEP97-00400	Mound	1998	NICKI LN	mh_ag
033031149000	Septic System Known / Required Inspection NOT Current	SOM2009-14063	SEP96-00328	Mound	1997	NICKI LN	sfr
033031149010	Septic System Known / Required Inspection NOT Current	SOM2009-14064	SEP90-00588	Mound	1992	NICKI LN	mh
033031149020	Septic System Known / Required Inspection NOT Current	SOM2009-14065	SEP90-00589	Mound	1993	NICKI LN	sfr
033031149030	Septic System Known / Required Inspection NOT Current	SOM2009-14066	SEP2003-00506	Mound	2004	HAPPY VALLEY RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033031149040	Septic System Known / Required Inspection NOT Current	SOM2009-14067	SEP2008-00220	Mound	2009	NICKI LN	ag
033031149050	Septic System Known / Required Inspection NOT Current	SOM2009-14068	SEP2004-00257	Mound	2004	NICKI LN	mh_ag
033031149060	Septic System Known / Required Inspection NOT Current	SOM2009-14069	SEP2008-00219	Mound	2009	NICKI LN	ag
033031149070	Septic System Known / Required Inspection NOT Current	SOM2009-14070	SEP94-00133	Mound	1995	NICKI LN	mh_ag
033031149080	Septic System Known / Required Inspection NOT Current	SOM2009-14071	SEP90-00452	Mound	1991		sfr_ag
033031149090	Septic System Known / Required Inspection NOT Current	SOM2009-14072	SEP2008-00193	Mound	2009	NICKI LN	ag
033031149100	Septic System Known / Required Inspection NOT Current	SOM2009-14073	SEP98-00176	Mound	2000	NICKI LN	sfr_ag
033031149110	Septic System Known / Required Inspection NOT Current	SOM2009-14118	SEP2008-00221	Mound	2009	NICKI LN	ag
033031500000	Septic System Known / Required Inspection NOT Current	SOM2009-14119	SEP76-10676	Conventional	1976	HAPPY VALLEY RD	mh
033031500050	Septic System Known / Required Inspection NOT Current	SOM2009-14120	SEP77-02447	Conventional	1977	HAPPY VALLEY RD	sfr
033031500100	Septic System Known / Required Inspection NOT Current	SOM2009-14121	SEP82-00018	Conventional	1982	HAPPY VALLEY RD	sfr
033031500300	Septic System Known / Required Inspection NOT Current	SOM2009-14123	SEP74-03917	Conventional	1974	HAPPY VALLEY RD	sfr
033031500350	Septic System Known / Required Inspection NOT Current	SOM2009-14124	SEP99-00221	Sand Filter Pressure	2000	HAPPY VALLEY RD	sfr
033031500400	Septic System Known / Required Inspection NOT Current	SOM2009-14125	SEP2009-00239	Biofilter	2010	HAPPY VALLEY RD	sfr
033031500450	Septic System Known / Required Inspection NOT Current	SOM2009-14126	SEP92-00126	Pressure	1994	HAPPY VALLEY RD	sfr
033031500500	Septic System Known / Required Inspection NOT Current	SOM2009-14127	SEP92-00469	Pressure	1994	MCFARLAND DR	sfr
033031500600	Septic System Known / Required Inspection NOT Current	SOM2009-14128	SEP99-00407	Mound	2000	LESTER WY	mh
033031500650	Septic System Known / Required Inspection NOT Current	SOM2009-14129	SEP80-00012	Conventional	1981	LESTER WAY	mh
033031500700	Septic System Known / Required Inspection NOT Current	SOM2009-14130	SEP75-09184	Conventional	1975	LESTER WY	mh
033031500750	Septic System Known / Required Inspection NOT Current	SOM2009-14131	SEP73-07916	Conventional	1973	LESTER WY	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033031500900	Septic System Known / Required Inspection NOT Current	SOM2009-14132	SEP91-00261	Conventional	1992	LESTER WY	vac
033031501000	Septic System Known / Required Inspection NOT Current	SOM2009-14133	SEP79-00256	Conventional	1979	MCFARLAND DR	mh
033031501050	Septic System Known / Required Inspection NOT Current	SOM2009-14134	SEP82-00143	Conventional	1982	MCFARLAND DR	mh
033031501100	Septic System Known / Required Inspection NOT Current	SOM2009-00234	SEP80-00231	Conventional	1980	MCFARLAND DR	mh
033031501150	Septic System Known / Required Inspection NOT Current	SOM2009-14136	SEP2006-00057	Sand Filter Mound	2007	MCFARLAND DR	mh
033031501200	Septic System Known / Required Inspection NOT Current	SOM2009-14137	SEP74-03103	Conventional	1974	MCFARLAND DR	mh
033031501250	Septic System Known / Required Inspection NOT Current	SOM2009-14139	SEP89-00190	Conventional	1991	MCFARLAND DR	vac
033031501350	Septic System Known / Required Inspection NOT Current	SOM2009-14140	SEP84-10109	Conventional	1984	MCFARLAND DR	mh
033031501400	Septic System Known / Required Inspection NOT Current	SOM2009-14141	SEP99-00012	Pressure	2000	MCFARLAND DR	mh
033031501450	Septic System Known / Required Inspection NOT Current	SOM2009-14142	SEP99-00031	Sand Filter Pressure	2000	BELLWAY RD	sfr
033031501550	Septic System Known / Required Inspection NOT Current	SOM2009-14145	SEP95-00398	Sand Filter Pressure	1996	BELLWAY RD	sfr
033031501700	Septic System Known / Required Inspection NOT Current	SOM2009-14146	SEP74-03643	Conventional	1974	ANNABELLE LN	sfr
033031501800	Septic System Known / Required Inspection NOT Current	SOM2009-14147	SEP73-07282	Conventional	1973	ANNABELLE LN	mh
033031501850	Septic System Known / Required Inspection NOT Current	SOM2009-14148	SEP72-06161	Conventional	1973	MCFARLAND DR	sfr
033031501900	Septic System Known / Required Inspection NOT Current	SOM2009-14149	SEP74-03311	Conventional	1974	MCFARLAND DR	mh
033031501950	Septic System Known / Required Inspection NOT Current	SOM2009-14150	SEP77-02871	Conventional	1977	MCFARLAND DR	sfr
033031502000	Septic System Known / Required Inspection NOT Current	SOM2009-14151	SEP77-01915	Conventional	1977	MCFARLAND DR	sfr
033031502050	Septic System Known / Required Inspection NOT Current	SOM2009-14152	SEP71-09733	Conventional	1971	MCFARLAND DR	sfr
033031502100	Septic System Known / Required Inspection NOT Current	SOM2009-14167	SEP87-10048	Conventional	1987	MCFARLAND DR	mh
033031509000	Septic System Known / Required Inspection NOT Current	SOM2009-14171	SEP98-00447	Sand Filter Pressure	1999	LESTER WY	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033031509070	Septic System Known / Required Inspection NOT Current	SOM2009-14174	SEP75-08237	Conventional	1975	LESTER WY	sfr
033031510500	Septic System Known / Required Inspection NOT Current	SOM2009-14175	SEP74-02533	Conventional	1974	MCFARLAND DR	sfr
033031520150	Septic System Known / Required Inspection NOT Current	SOM2009-14199	sep2007-np361	Conventional	1980	HAPPY VALLEY RD	sfr_ag
033032139010	Septic System Known / Required Inspection NOT Current	SOM2009-14200	SEP2001-00116	Pressure	2003	HILLSIDE DR	sfr
033032139020	Septic System Known / Required Inspection NOT Current	SOM2009-14203	SEP2003-00291	Pressure	2003	HILLSIDE DR	sfr
033032140220	Septic System Known / Required Inspection NOT Current	SOM2009-14204	SEP81-00031	Pressure	1983	QUARTER HORSE LN	sfr
033032140230	Septic System Known / Required Inspection NOT Current	SOM2009-14219	SEP78-04404	Conventional	1978	QUARTER HORSE LN	sfr
033032220080	Septic System Known / Required Inspection NOT Current	SOM2009-14221	SEP90-00351	Pressure	1992	HAPPY VALLEY RD	sfr
033032221000	Septic System Known / Required Inspection NOT Current	SOM2009-14222	SEP50-NP934	Conventional	1950	HAPPY VALLEY RD	sfr
033032229010	Septic System Known / Required Inspection NOT Current	SOM2009-14223	SEP90-00388	Conventional	1992	BELL CREEK LN	vac
033032229020	Septic System Known / Required Inspection NOT Current	SOM2009-14224	SEP2002-00340	Conventional	2005	BELL CREEK LN	sfr
033032229040	Septic System Known / Required Inspection NOT Current	SOM2009-14225	SEP2003-00303	Pressure	2004	BELL CREEK LN	sfr
033032229070	Septic System Known / Required Inspection NOT Current	SOM2009-14226	SEP86-00335	Conventional	1986	SPRINGWATER LN	mh
033032229080	Septic System Known / Required Inspection NOT Current	SOM2009-14227	SEP74-06430	Conventional	1974	SPRINGWATER RD	mh
033032229090	Septic System Known / Required Inspection NOT Current	SOM2009-14231	SEP85-00182	Conventional	1987	SPRINGWATER LN	sfr
033032239010	Septic System Known / Required Inspection NOT Current	SOM2009-14232	SEP94-00445	Pressure	1995	BELL CREEK LN	mh
033032239020	Septic System Known / Required Inspection NOT Current	SOM2009-14233	SEP96-00356	Pressure	1997	BELL CREEK LN	sfr
033032239040	Septic System Known / Required Inspection NOT Current	SOM2009-14234	SEP90-00465	Mound	1991	HAPPY VALLEY RD	vac
033032239050	Septic System Known / Required Inspection NOT Current	SOM2009-14235	SEP91-00464	Conventional	1992	DOE RUN RD	sfr
033032239060	Septic System Known / Required Inspection NOT Current	SOM2009-14319	SEP96-00300	Pressure	1997	DOE RUN RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033033110075	Septic System Known / Required Inspection NOT Current	SOM2009-14320	SEP79-08316	Conventional	1979	HAPPY VALLEY RD	sfr
033033110100	Septic System Known / Required Inspection NOT Current	SOM2009-14321	SEP99-00392	Pressure	2000	HAPPY VALLEY RD	sfr
033033110225	Septic System Known / Required Inspection NOT Current	SOM2009-14323	SEP73-07636	Conventional	1973	CLEARVIEW LN	mh
033033110425	Septic System Known / Required Inspection NOT Current	SOM2009-14325	SEP85-10051	Conventional	1985	HAPPY VALLEY RD	sfr
033033119020	Septic System Known / Required Inspection NOT Current	SOM2009-31454	SEP77-02174	Conventional	1977	HAPPY VALLEY RD	sfr
033033120010	Septic System Known / Required Inspection NOT Current	SOM2009-14326	SEP2003-00210	Pressure	2006	HUFFMAN HEIGHTS RD	sfr
033033120020	Septic System Known / Required Inspection NOT Current	SOM2009-14327	SEP99-00173	Mound	2001	HEREFORD LN	sfr
033033120040	Septic System Known / Required Inspection NOT Current	SOM2009-14328	SEP2004-00420	Mound	2005	HEREFORD LN	vac
033033129010	Septic System Known / Required Inspection NOT Current	SOM2009-14329	SEP2003-00384	Mound	2004	HEREFORD LN	sfr
033033129020	Septic System Known / Required Inspection NOT Current	SOM2009-14332	SEP99-00172	Mound	2000	HEREFORD LN	sfr
033033130050	Septic System Known / Required Inspection NOT Current	SOM2009-14334	SEP2005-00364	Pressure	2006	HAPPY VALLEY RD	sfr
033033139000	Septic System Known / Required Inspection NOT Current	SOM2009-14335	SEP94-00485	Sand Line Pressure	1995	HUFFMAN HEIGHTS RD	sfr
033033139030	Septic System Known / Required Inspection NOT Current	SOM2009-14337	SEP94-00217	Mound	1994	HAPPY VALLEY RD	sfr
033033140040	Septic System Known / Required Inspection NOT Current	SOM2010-00053	SEP93-00388	Pressure	1994	HAPPY VALLEY RD	sfr
033033210050	Septic System Known / Required Inspection NOT Current	SOM2007-00053	SEP2010-00046	Biofilter	2010	COUGAR CREST RD	vac
033033220200	Septic System Known / Required Inspection NOT Current	SOM2009-14346	SEP70-NP687	Conventional	1970	CHELSAMISH DR	vac
033033229000	Septic System Known / Required Inspection NOT Current	SOM2009-14348	SEP2000-00018	Pressure	2000	CHELSAMISH DR	sfr
033033230090	Septic System Known / Required Inspection NOT Current	SOM2009-14349	SEP75-09006	Conventional	1976	MORGAN DR	sfr
033033230110	Septic System Known / Required Inspection NOT Current	SOM2009-14351	SEP77-02266	Conventional	1977	MORGAN DR	sfr
033033230150	Septic System Known / Required Inspection NOT Current	SOM2009-14352	SEP91-00138	Pressure	1993	MORGAN DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033033230160	Septic System Known / Required Inspection NOT Current	SOM2009-14353	SEP94-00346	Mound	1994	MORGAN DR	sfr
033033240025	Septic System Known / Required Inspection NOT Current	SOM2009-14354	SEP96-00438	Pressure	1997	PONY LN	sfr
033033249010	Septic System Known / Required Inspection NOT Current	SOM2005-00127	SEP98-00191	Mound	2003	CHELSAMISH DR	sfr
033033249040	Septic System Known / Required Inspection NOT Current	SOM2009-14384	SEP2002-00424	ATU	2003	CHELSAMISH DR	vac
033033500010	Septic System Known / Required Inspection NOT Current	SOM2009-14386	SEP2005-00130	Pressure	2008	LANDGROVE LN	sfr
033033500030	Septic System Known / Required Inspection NOT Current	SOM2009-14387	SEP98-00264	Pressure	1998	LANDGROVE LN	mh
033033500050	Septic System Known / Required Inspection NOT Current	SOM2009-14388	SEP2006-00022	Pressure	2006	LANDGROVE LN	mh
033033500060	Septic System Known / Required Inspection NOT Current	SOM2009-14389	SEP97-00120	Pressure	1997	LANDGROVE LN	mh
033033500070	Septic System Known / Required Inspection NOT Current	SOM2009-14390	SEP2003-00100	Pressure	2003	LANDGROVE LN	mh
033033500080	Septic System Known / Required Inspection NOT Current	SOM2009-14391	SEP2005-00063	Pressure	2005	LANDGROVE LN	mh
033034110000	Septic System Known / Required Inspection NOT Current	SOM2009-14393	SEP87-00235	Conventional	1987	SEQUIM BAY RD	sfr
033034110075	Septic System Known / Required Inspection NOT Current	SOM2009-02984	SEP50-NP217	Conventional	1950	SEQUIM BAY RD	sfr
033034119000	Septic System Known / Required Inspection NOT Current	SOM2009-14394	SEP2008-00003	Pressurized Deep Trench	2009	SEQUIM BAY RD	sfr
033034119050	Septic System Known / Required Inspection NOT Current	SOM2009-14396	SEP2005-00077	Conventional	2006	SEQUIM BAY RD	sfr
033034120050	Septic System Known / Required Inspection NOT Current	SOM2009-14397	SEP90-00602	Conventional	1990	SEQUIM BAY RD	sfr
033034129015	Septic System Known / Required Inspection NOT Current	SOM2009-14398	SEP79-03858	Conventional	1980	SEQUIM BAY RD	sfr
033034129020	Septic System Known / Required Inspection NOT Current	SOM2009-14399	SEP81-00230	Conventional	1982	SEQUIM BAY RD	sfr
033034129030	Septic System Known / Required Inspection NOT Current	SOM2009-14402	SEP90-00356	Conventional	1991	SEQUIM BAY RD	sfr
033034140025	Septic System Known / Required Inspection NOT Current	SOM2009-14403	SEP84-10067	Conventional	1984	SEQUIM BAY RD	sfr
033034140050	Septic System Known / Required Inspection NOT Current	SOM2009-14404	SEP87-00167	Conventional	1987	SEQUIM BAY RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033034140125	Septic System Known / Required Inspection NOT Current	SOM2009-14407	sep83-10071	Conventional	1983	SEQUIM BAY RD	vac
033034148010	Septic System Known / Required Inspection NOT Current	SOM2009-14408	SEP2009-NP405	Conventional	1970	SEQUIM BAY RD	sfr_ag
033034148020	Septic System Known / Required Inspection NOT Current	SOM2009-14409	SEP96-00434	Pressure	1996	SEQUIM BAY RD	sfr_ag
033034220040	Septic System Known / Required Inspection NOT Current	SOM2009-14411	SEP2005-00451	Sand Filter Mound	2006	CHRISTOPHER LN	sfr
033034239000	Septic System Known / Required Inspection NOT Current	SOM2009-14412	SEP82-00002	Pressure	1986	MARSHALL RD	sfr
033034239010	Septic System Known / Required Inspection NOT Current	SOM2009-14414	SEP86-00320	Conventional	1986	PALO ALTO RD	mh
033034239030	Septic System Known / Required Inspection NOT Current	SOM2009-14415	SEP2005-00225	Sand Filter Mound	2006	PALO ALTO RD	sfr
033034239040	Septic System Known / Required Inspection NOT Current	SOM2009-14417	SEP82-00232	Conventional	1983	MARSHALL RD	sfr
033034239060	Septic System Known / Required Inspection NOT Current	SOM2009-14418	SEP83-00099	Conventional	1983	PALO ALTO RD	sfr
033034240000	Septic System Known / Required Inspection NOT Current	SOM2009-14420	SEP2002-00442	Pressure	2003		util
033034240075	Septic System Known / Required Inspection NOT Current	SOM2009-14421	SEP83-00010	Conventional	1983	MARSHALL RD	mh
033034240100	Septic System Known / Required Inspection NOT Current	SOM2009-14446	SEP89-00511	Pressure	1990	MARSHALL RD	sfr
033035230025	Septic System Known / Required Inspection NOT Current	SOM2009-14447	SEP74-03766	Conventional	1975	SEQUIM BAY RD	sfr
033035230070	Septic System Known / Required Inspection NOT Current	SOM2009-14449	SEP96-00420	Pressure	1997	SEQUIM BAY RD	sfr
033035239020	Septic System Known / Required Inspection NOT Current	SOM2009-14450	SEP2009-NP609	Conventional	1964	SEQUIM BAY RD	sfr
033035239030	Septic System Known / Required Inspection NOT Current	SOM2009-16916	SEP94-00590	Conventional	1995	SEQUIM BAY RD	vac
043012430325	Septic System Known / Required Inspection NOT Current	SOM2009-16917	sep2001-np423	Conventional	1973	ROBBINS RD	sfr
043012430350	Septic System Known / Required Inspection NOT Current	SOM2009-16919	sep2004-np152	Conventional	1970	ROBBINS RD	sfr
043012430425	Septic System Known / Required Inspection NOT Current	SOM2009-06967	SEP2002-00409	Sand Line Pressure	2003	ROBBINS RD	sfr
043013110050	Septic System Known / Required Inspection NOT Current	SOM2009-16968	SEP73-01073	Conventional	1973	OLD OLYMPIC HWY	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013110075	Septic System Known / Required Inspection NOT Current	SOM2009-16969	SEP94-00048	Sand Line Pressure	1994	OLD OLYMPIC HWY	mfr
043013110125	Septic System Known / Required Inspection NOT Current	SOM2009-16970	SEP73-12726	Conventional	1974	OLD OLYMPIC HWY	mfr
043013110200	Septic System Known / Required Inspection NOT Current	SOM2009-16972	SEP73-10573	Conventional	1975	OLD OLYMPIC HWY	mfr
043013110275	Septic System Known / Required Inspection NOT Current	SOM2009-16974	SEP73-07481	Conventional	1973	OLD OLYMPIC HWY	sfr
043013119050	Septic System Known / Required Inspection NOT Current	SOM2009-16975	SEP89-00491	Conventional	1990	MOLENDA LN	mh
043013119060	Septic System Known / Required Inspection NOT Current	SOM2009-16976	SEP77-02346	Conventional	1979	MOLENDA LN	sfr
043013119070	Septic System Known / Required Inspection NOT Current	SOM2009-16977	SEP88-00149	Conventional	1988	OLD OLYMPIC HWY	sfr
043013119080	Septic System Known / Required Inspection NOT Current	SOM2009-16978	SEP89-00257	Conventional	1989	OLD OLYMPIC HWY	mh
043013119090	Septic System Known / Required Inspection NOT Current	SOM2009-16979	SEP78-03606	Conventional	1978	OLD OLYMPIC HWY	sfr
043013119100	Septic System Known / Required Inspection NOT Current	SOM2009-16981	SEP89-00508	Conventional	1990	OLD OLYMPIC HWY	sfr
043013120000	Septic System Known / Required Inspection NOT Current	SOM2009-16983	sep98-np300	Conventional	1970	MCCOMB RD	sfr_ag
043013130050	Septic System Known / Required Inspection NOT Current	SOM2009-16984	SEP70-09059	Conventional	1970	HUDON RD	sfr
043013130075	Septic System Known / Required Inspection NOT Current	SOM2009-16985	SEP77-02560	Conventional	1977	HUDON RD	sfr
043013130125	Septic System Known / Required Inspection NOT Current	SOM2009-16986	sep90-np674	Conventional	1970	MCCOMB RD	sfr
043013130150	Septic System Known / Required Inspection NOT Current	SOM2009-16987	SEP72-09592	Conventional	1972	HUDON RD	mh
043013130175	Septic System Known / Required Inspection NOT Current	SOM2009-16988	SEP74-02481	Conventional	1974	HUDON RD	mh
043013130225	Septic System Known / Required Inspection NOT Current	SOM2009-16989	SEP70-08240	Conventional	1970	HUDON RD	mh
043013130250	Septic System Known / Required Inspection NOT Current	SOM2009-16990	SEP75-06495	Conventional	1976	HUDON RD	sfr
043013130300	Septic System Known / Required Inspection NOT Current	SOM2009-16991	SEP70-09375	Conventional	1970	HUDON RD	mh
043013130325	Septic System Known / Required Inspection NOT Current	SOM2009-16994	SEP2000-00504	Conventional	2002	HUDON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013139020	Septic System Known / Required Inspection NOT Current	SOM2009-16995	SEP70-09338	Conventional	1970	HUDON RD	mh
043013139030	Septic System Known / Required Inspection NOT Current	SOM2009-16996	SEP87-00257	Conventional	1989	SCOTT DR	sfr
043013139040	Septic System Known / Required Inspection NOT Current	SOM2009-16997	SEP79-08481	Conventional	1980	SCOTT DR	mh
043013139050	Septic System Known / Required Inspection NOT Current	SOM2009-16998	SEP85-00181	Conventional	1985	SCOTT DR	sfr
043013139080	Septic System Known / Required Inspection NOT Current	SOM2009-16999	SEP80-00492	Conventional	1980	SCOTT DR	mh
043013139090	Septic System Known / Required Inspection NOT Current	SOM2009-17000	SEP80-00226	Conventional	1980	SCOTT DR	sfr
043013139100	Septic System Known / Required Inspection NOT Current	SOM2009-17001	SEP84-00293	Conventional	1985	SCOTT DR	
043013139110	Septic System Known / Required Inspection NOT Current	SOM2009-17003	SEP86-00097	Conventional	1986	SCOTT DR	mh
043013139130	Septic System Known / Required Inspection NOT Current	SOM2009-17004	SEP80-00243	Conventional	1980	SCOTT DR	sfr
043013139150	Septic System Known / Required Inspection NOT Current	SOM2009-17005	SEP81-00080	Conventional	1981	SCOTT DR	mh
043013139160	Septic System Known / Required Inspection NOT Current	SOM2009-17006	SEP2006-00417	Pressure	2007	SCOTT RD	mh
043013139170	Septic System Known / Required Inspection NOT Current	SOM2009-17007	SEP80-00235	Conventional	1980	SCOTT DR	sfr
043013139220	Septic System Known / Required Inspection NOT Current	SOM2009-17008	SEP89-00205	Conventional	1989	SCOTT DR	mh
043013139230	Septic System Known / Required Inspection NOT Current	SOM2009-17010	SEP94-00202	Conventional	1994	SCOTT DR	sfr
043013139250	Septic System Known / Required Inspection NOT Current	SOM2009-17011	SEP68-00339	Conventional	1968	MCCOMB LN	sfr
043013139260	Septic System Known / Required Inspection NOT Current	SOM2009-17013	SEP92-00061	Conventional	1992	HUDON RD	sfr
043013139290	Septic System Known / Required Inspection NOT Current	SOM2009-17014	SEP99-00515	Pressure	2001	SCOTT DR	mh
043013140010	Septic System Known / Required Inspection NOT Current	SOM2009-17015	SEP97-00097	Sand Line Pressure	1997	LOTUS LN	sfr
043013140020	Septic System Known / Required Inspection NOT Current	SOM2009-17017	SEP88-00003	Conventional	1988	OLD OLYMPIC HWY	sfr
043013140100	Septic System Known / Required Inspection NOT Current	SOM2009-17018	SEP97-00295	Sand Line Pressure	1997	OLD OLYMPIC HWY	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013140125	Septic System Known / Required Inspection NOT Current	SOM2009-31708	SEP93-00076	Sand Line Pressure	1993	OLD OLYMPIC HWY	sfr
043013149010	Septic System Known / Required Inspection NOT Current	SOM2009-17020	SEP86-00230	Conventional	1986	BEESON RD	mfr
043013149020	Septic System Known / Required Inspection NOT Current	SOM2009-17021	SEP92-00217	Conventional	1992	BEESON RD	sfr
043013149030	Septic System Known / Required Inspection NOT Current	SOM2009-17022	SEP90-00408	Conventional	1990	LOTUS LN	sfr
043013149040	Septic System Known / Required Inspection NOT Current	SOM2009-17023	SEP2005-00555	Sand Line Pressure	2006	LOTUS LN	sfr
043013149050	Septic System Known / Required Inspection NOT Current	SOM2009-17024	SEP2000-00503	Conventional	2001	BEESON RD	sfr
043013149060	Septic System Known / Required Inspection NOT Current	SOM2009-17026	SEP88-00436	Pressure	1989	LOTUS LN	sfr
043013149110	Septic System Known / Required Inspection NOT Current	SOM2009-17027	SEP95-00006	Conventional	1995	LOTUS LN	sfr
043013149120	Septic System Known / Required Inspection NOT Current	SOM2009-17028	SEP82-00285	Conventional	1983	LOTUS LN	sfr
043013149130	Septic System Known / Required Inspection NOT Current	SOM2009-17029	SEP91-00023	Conventional	1992	OLD OLYMPIC HWY	vac
043013149140	Septic System Known / Required Inspection NOT Current	SOM2009-17030	SEP90-00530	Conventional	1992	LOTUS LN	sfr
043013149170	Septic System Known / Required Inspection NOT Current	SOM2009-17031	SEP90-00507	Conventional	1992	BEESON RD	sfr
043013149180	Septic System Known / Required Inspection NOT Current	SOM2009-17033	SEP2004-00399	Conventional	2005	BEESON RD	sfr
043013149210	Septic System Known / Required Inspection NOT Current	SOM2009-17034	SEP89-00165	Pressure	1989	LOTUS LN	sfr
043013149220	Septic System Known / Required Inspection NOT Current	SOM2009-17035	SEP90-00508	Conventional	1991	LOTUS LN	sfr
043013149230	Septic System Known / Required Inspection NOT Current	SOM2009-17037	SEP93-00074	Sand Line Pressure	1993	LOTUS LN	pub_q
043013149250	Septic System Known / Required Inspection NOT Current	SOM2009-17038	sep89-np216	Conventional	1970	OLD OLYMPIC HWY	sfr
043013149270	Septic System Known / Required Inspection NOT Current	SOM2009-17039	SEP89-00161	Pressure	1990	OLD OLYMPIC HWY	sfr
043013149280	Septic System Known / Required Inspection NOT Current	SOM2009-17040	SEP89-00160	Pressure	1990	OLD OLYMPIC HWY	sfr
043013149290	Septic System Known / Required Inspection NOT Current	SOM2009-17041	SEP93-00307	Conventional	1994	LOTUS LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013149300	Septic System Known / Required Inspection NOT Current	SOM2009-17042	SEP92-00132	Conventional	1994	LOTUS LN	sfr
043013149310	Septic System Known / Required Inspection NOT Current	SOM2009-17043	SEP92-00253	Conventional	1993	LOTUS LN	sfr
043013210000	Septic System Known / Required Inspection NOT Current	SOM2009-17044	SEP76-07239	Conventional	1976	MCCOMB RD	sfr_ag
043013220000	Septic System Known / Required Inspection NOT Current	SOM2009-17045	SEP81-00313	Conventional	1981	MCCOMB RD	sfr_ag
043013229000	Septic System Known / Required Inspection NOT Current	SOM2009-17047	SEP91-00453	Conventional	1991	MCCOMB RD	sfr
043013229040	Septic System Known / Required Inspection NOT Current	SOM2009-17048	SEP85-00177	Conventional	1985	MCCOMB RD	ag
043013230100	Septic System Known / Required Inspection NOT Current	SOM2009-17049	SEP93-00069	Sand Line Pressure	1994	MEADOWMEER LN	sfr_ag
043013239010	Septic System Known / Required Inspection NOT Current	SOM2009-17050	SEP82-00178	Conventional	1982	RIVERVIEW DR	sfr
043013239020	Septic System Known / Required Inspection NOT Current	SOM2009-17051	SEP88-00372	Conventional	1989	RIVERVIEW DR	sfr
043013239030	Septic System Known / Required Inspection NOT Current	SOM2009-17052	SEP82-00245	Conventional	1982	RIVERVIEW DR	sfr
043013239040	Septic System Known / Required Inspection NOT Current	SOM2009-17053	SEP84-00181	Conventional	1984	RIVERVIEW DR	sfr
043013239050	Septic System Known / Required Inspection NOT Current	SOM2009-17054	SEP90-00579	Conventional	1991	RIVERVIEW DR	sfr
043013239060	Septic System Known / Required Inspection NOT Current	SOM2009-17055	SEP96-00271	Conventional	1998	RIVERVIEW DR	sfr
043013239070	Septic System Known / Required Inspection NOT Current	SOM2009-17056	SEP92-00475	Conventional	1993	RIVERVIEW DR	sfr
043013239080	Septic System Known / Required Inspection NOT Current	SOM2009-17057	SEP94-00486	Conventional	1995	RIVERVIEW DR	sfr
043013239100	Septic System Known / Required Inspection NOT Current	SOM2009-17058	SEP91-00102	Conventional	1991	MEADOWMEER LN	sfr
043013239110	Septic System Known / Required Inspection NOT Current	SOM2009-17059	SEP92-00562	Conventional	1994	MEADOWMEER LN	sfr
043013239120	Septic System Known / Required Inspection NOT Current	SOM2009-17060	SEP92-00507	Conventional	1993	MEADOWMEER LN	sfr
043013239130	Septic System Known / Required Inspection NOT Current	SOM2009-17061	SEP2008-00252	Sand Line Pressure	2009	RIVERVIEW DR	sfr
043013249010	Septic System Known / Required Inspection NOT Current	SOM2009-17062	SEP81-00204	Conventional	1982	MCCOMB LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013249020	Septic System Known / Required Inspection NOT Current	SOM2009-17063	SEP80-00268	Conventional	1980	MCCOMB RD	sfr
043013249030	Septic System Known / Required Inspection NOT Current	SOM2009-17064	SEP79-03945	Conventional	1979	MCCOMB RD	mh
043013249040	Septic System Known / Required Inspection NOT Current	SOM2009-17066	SEP79-08129	Conventional	1979	MCCOMB RD	mh
043013249060	Septic System Known / Required Inspection NOT Current	SOM2009-17067	SEP81-00253	Conventional	1981	MCCOMB LN	mh
043013249070	Septic System Known / Required Inspection NOT Current	SOM2009-17068	SEP80-00215	Conventional	1980	MCCOMB LN	mh
043013249080	Septic System Known / Required Inspection NOT Current	SOM2009-17069	SEP79-08306	Conventional	1979	MCCOMB RD	sfr
043013249090	Septic System Known / Required Inspection NOT Current	SOM2009-17070	SEP2000-00354	Conventional	2002	MCCOMB RD	sfr
043013249100	Septic System Known / Required Inspection NOT Current	SOM2009-17071	SEP2003-00128	Conventional	2003	MCCOMB LN	sfr
043013249110	Septic System Known / Required Inspection NOT Current	SOM2009-17072	SEP94-00276	Conventional	1994	MCCOMB RD	sfr
043013249130	Septic System Known / Required Inspection NOT Current	SOM2009-17073	SEP2007-00064	Pressure	2008	SIMMS LN	sfr
043013249140	Septic System Known / Required Inspection NOT Current	SOM2009-17074	SEP2006-00334	Sand Line Pressure	2007	SIMMS LN	sfr
043013310025	Septic System Known / Required Inspection NOT Current	SOM2009-17075	SEP79-03503	Conventional	1979	STONE RD	sfr
043013310125	Septic System Known / Required Inspection NOT Current	SOM2009-17076	SEP72-09167	Conventional	1972	WILLIAMSON RD	sfr
043013319000	Septic System Known / Required Inspection NOT Current	SOM2009-17077	SEP73-06586	Conventional	1973	STONE RD	sfr
043013319010	Septic System Known / Required Inspection NOT Current	SOM2009-17078	SEP75-08872	Conventional	1975	STONE RD	sfr
043013319020	Septic System Known / Required Inspection NOT Current	SOM2009-17080	SEP92-00165	Conventional	1994	STONE RD	sfr
043013319040	Septic System Known / Required Inspection NOT Current	SOM2009-17081	SEP2001-00014	Conventional	2001	PEBBLE WAY	sfr
043013319050	Septic System Known / Required Inspection NOT Current	SOM2009-17082	SEP80-00276	Conventional	1980	WILLIAMSON RD	sfr
043013319060	Septic System Known / Required Inspection NOT Current	SOM2009-17083	SEP83-00101	Conventional	1984	WILLIAMSON RD	sfr
043013319070	Septic System Known / Required Inspection NOT Current	SOM2009-17084	sep92-np289	Conventional	1970	WILLIAMSON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013319080	Septic System Known / Required Inspection NOT Current	SOM2009-17085	SEP89-00019	Conventional	1989	WILLIAMSON RD	sfr
043013319090	Septic System Known / Required Inspection NOT Current	SOM2009-17086	SEP2007-00143	Pressure	2007	WILLIAMSON RD	sfr
043013319100	Septic System Known / Required Inspection NOT Current	SOM2009-17087	SEP88-00207	Conventional	1988	STONE RD	sfr
043013319110	Septic System Known / Required Inspection NOT Current	SOM2009-17088	SEP91-00360	Conventional	1993	STONE RD	sfr
043013319120	Septic System Known / Required Inspection NOT Current	SOM2009-17089	SEP70-08627	Conventional	1970	WILLIAMSON RD	sfr
043013319130	Septic System Known / Required Inspection NOT Current	SOM2009-17090	SEP95-00096	Conventional	1995	WILLIAMSON RD	sfr
043013320000	Septic System Known / Required Inspection NOT Current	SOM2009-17091	SEP73-17621	Conventional	1973	HENDRICKSON RD	sfr
043013320050	Septic System Known / Required Inspection NOT Current	SOM2009-17092	SEP2002-00264	Conventional	2003	APPLEGATE LN	sfr_ag
043013320080	Septic System Known / Required Inspection NOT Current	SOM2009-17093	SEP77-01995	Conventional	1977	APPLEGATE LN	sfr_ag
043013339010	Septic System Known / Required Inspection NOT Current	SOM2009-17095	SEP77-02198	Conventional	1977	APPLEGATE LN	sfr
043013339030	Septic System Known / Required Inspection NOT Current	SOM2009-17097	SEP85-00080	Conventional	1985	APPLEGATE LN	sfr
043013339050	Septic System Known / Required Inspection NOT Current	SOM2009-17098	SEP81-00138	Conventional	1981	APPLEGATE LN	sfr
043013339060	Septic System Known / Required Inspection NOT Current	SOM2009-17099	SEP78-04024	Conventional	1978	APPLEGATE LN	sfr
043013339080	Septic System Known / Required Inspection NOT Current	SOM2009-17100	SEP96-00351	Conventional	1998	HENDRICKSON RD	vac
043013339090	Septic System Known / Required Inspection NOT Current	SOM2009-17101	SEP99-00441	Conventional	1999	ROWLAND DR	sfr
043013339110	Septic System Known / Required Inspection NOT Current	SOM2009-17102	SEP77-01333	Conventional	1978	APPLEGATE LN	sfr
043013339120	Septic System Known / Required Inspection NOT Current	SOM2009-17104	SEP90-00245	Conventional	1990	APPLEGATE LN	sfr
043013339170	Septic System Known / Required Inspection NOT Current	SOM2009-17105	SEP95-00177	Conventional	1995	HENDRICKSON RD	sfr
043013339180	Septic System Known / Required Inspection NOT Current	SOM2009-17106	SEP95-00175	Conventional	1995	HENDRICKSON RD	sfr
043013339190	Septic System Known / Required Inspection NOT Current	SOM2009-17107	SEP95-00020	Conventional	1996	HENDRICKSON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013340010	Septic System Known / Required Inspection NOT Current	SOM2009-17109	SEP78-05228	Conventional	1981		mh
043013340030	Septic System Known / Required Inspection NOT Current	SOM2009-17110	SEP2007-00296	Conventional	2008	HENDRICKSON RD	sfr
043013349010	Septic System Known / Required Inspection NOT Current	SOM2009-17112	SEP2000-00416	Conventional	2002	ROWLAND DR	sfr
043013349030	Septic System Known / Required Inspection NOT Current	SOM2009-17113	SEP2000-00174	Conventional	2000	ROWLAND DR	sfr
043013349040	Septic System Known / Required Inspection NOT Current	SOM2009-17115	SEP95-00458	Pressure	1999	ROWLAND DR	sfr
043013349070	Septic System Known / Required Inspection NOT Current	SOM2009-17116	SEP2004-00244	Conventional	2004	LOIS LN	mh
043013349080	Septic System Known / Required Inspection NOT Current	SOM2008-00036	SEP2003-00247	Conventional	2003	LOIS LN	mh
043013349090	Septic System Known / Required Inspection NOT Current	SOM2009-17118	SEP96-00096	Conventional	1996	LOIS LN	mh
043013349100	Septic System Known / Required Inspection NOT Current	SOM2009-17119	SEP2002-00341	Sand Line Pressure	2004	LOIS LN	sfr
043013349130	Septic System Known / Required Inspection NOT Current	SOM2009-17120	SEP88-00155	Conventional	1989	HENDRICKSON RD	mh
043013349140	Septic System Known / Required Inspection NOT Current	SOM2009-17121	SEP83-00289	Conventional	1983	LOIS LN	sfr
043013349150	Septic System Known / Required Inspection NOT Current	SOM2009-17122	SEP91-00655	Conventional	1992	LOIS LN	mh
043013349160	Septic System Known / Required Inspection NOT Current	SOM2009-17124	SEP83-00213	Conventional	1984	LOIS LN	sfr
043013349190	Septic System Known / Required Inspection NOT Current	SOM2009-17125	SEP90-00163	Conventional	1990	LOIS LN	mh
043013349200	Septic System Known / Required Inspection NOT Current	SOM2009-17126	SEP87-00336	Conventional	1988	LOIS LN	sfr
043013410025	Septic System Known / Required Inspection NOT Current	SOM2009-00017	SEP97-00026	Conventional	1997	STONE RD	sfr
043013410050	Septic System Known / Required Inspection NOT Current	SOM2009-17128	SEP2006-00095	Conventional	2006	STONE RD	sfr
043013410075	Septic System Known / Required Inspection NOT Current	SOM2009-17129	SEP77-04172	Conventional	1978	STONE RD	sfr
043013410100	Septic System Known / Required Inspection NOT Current	SOM2009-17131	sep2000-np211	Conventional	1969	STONE RD	sfr
043013410150	Septic System Known / Required Inspection NOT Current	SOM2009-17133	SEP91-00432	Sand Line Pressure	1992	WRIGHT RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013410250	Septic System Known / Required Inspection NOT Current	SOM2009-17134	SEP72-19213	Conventional	1972	WILLIAMSON RD	sfr
043013410325	Septic System Known / Required Inspection NOT Current	SOM2009-17135	SEP72-09335	Conventional	1972	KENDALL RD	sfr
043013410350	Septic System Known / Required Inspection NOT Current	SOM2009-17136	SEP73-07411	Conventional	1973	WILLIAMSON RD	sfr
043013419000	Septic System Known / Required Inspection NOT Current	SOM2009-17138	SEP91-00637	Sand Line Pressure	1992	STONE RD	sfr
043013419020	Septic System Known / Required Inspection NOT Current	SOM2009-17139	SEP74-13242	Conventional	1974	STONE RD	sfr
043013419030	Septic System Known / Required Inspection NOT Current	SOM2009-17140	SEP2001-00228	Sand Line Pressure	2004	STONE RD	sfr
043013419040	Septic System Known / Required Inspection NOT Current	SOM2009-17141	SEP73-08873	Conventional	1973	STONE RD	sfr
043013419050	Septic System Known / Required Inspection NOT Current	SOM2009-17142	SEP99-00540	Pressure	2000	STONE RD	sfr
043013419060	Septic System Known / Required Inspection NOT Current	SOM2009-17143	SEP75-08919	Conventional	1975	STONE RD	sfr
043013419070	Septic System Known / Required Inspection NOT Current	SOM2009-17144	SEP77-01005	Conventional	1977	STONE RD	sfr
043013419080	Septic System Known / Required Inspection NOT Current	SOM2009-17145	SEP86-00390	Conventional	1986	STONE RD	sfr
043013419090	Septic System Known / Required Inspection NOT Current	SOM2009-17146	SEP2003-00161	Sand Line Pressure	2003	STONE RD	sfr
043013419100	Septic System Known / Required Inspection NOT Current	SOM2009-17147	SEP84-10052	Conventional	1984	KENDALL RD	sfr
043013419110	Septic System Known / Required Inspection NOT Current	SOM2009-17148	SEP79-00125	Conventional	1982	WILLIAMSON RD	sfr
043013419125	Septic System Known / Required Inspection NOT Current	SOM2009-17149	SEP72-06184	Conventional	1973	WILLIAMSON RD	sfr
043013419140	Septic System Known / Required Inspection NOT Current	SOM2009-17150	SEP2001-00358	Sand Line Pressure	2002	WILLIAMSON RD	sfr
043013419150	Septic System Known / Required Inspection NOT Current	SOM2009-17151	SEP86-00272	Sand Line Pressure	1987	WILLIAMSON RD	sfr
043013419170	Septic System Known / Required Inspection NOT Current	SOM2009-17152	SEP84-00329	Conventional	1985	WILLIAMSON RD	sfr
043013419180	Septic System Known / Required Inspection NOT Current	SOM2009-17153	SEP91-00064	Pressure	1991	WILLIAMSON RD	sfr
043013419190	Septic System Known / Required Inspection NOT Current	SOM2009-17154	SEP90-00303	Sand Line Pressure	1991	WILLIAMSON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013419200	Septic System Known / Required Inspection NOT Current	SOM2009-17155	SEP96-00050	Sand Line Pressure	1996	WILLIAMSON RD	sfr
043013420050	Septic System Known / Required Inspection NOT Current	SOM2009-17156	SEP72-09341	Conventional	1972	STONE RD	sfr
043013420062	Septic System Known / Required Inspection NOT Current	SOM2009-17157	SEP73-07370	Conventional	1973	HUDON RD	sfr
043013420100	Septic System Known / Required Inspection NOT Current	SOM2009-17159	SEP73-09728	Conventional	1973	WILLIAMSON RD	sfr
043013429010	Septic System Known / Required Inspection NOT Current	SOM2009-17160	SEP76-18347	Conventional	1976	STONE RD	sfr
043013429020	Septic System Known / Required Inspection NOT Current	SOM2009-17161	SEP98-00436	Conventional	1998	STONE RD	sfr
043013429030	Septic System Known / Required Inspection NOT Current	SOM2009-17162	SEP89-00295	Conventional	1990	STONE RD	sfr
043013429040	Septic System Known / Required Inspection NOT Current	SOM2009-17163	SEP77-02473	Conventional	1977	WILLIAMSON RD	sfr
043013429050	Septic System Known / Required Inspection NOT Current	SOM2009-17164	SEP77-02314	Conventional	1978	WILLIAMSON RD	sfr
043013429060	Septic System Known / Required Inspection NOT Current	SOM2009-17165	SEP77-02020	Conventional	1977	WILLIAMSON RD	sfr
043013429070	Septic System Known / Required Inspection NOT Current	SOM2009-17166	SEP84-00048	Conventional	1985	WILLIAMSON RD	sfr
043013429080	Septic System Known / Required Inspection NOT Current	SOM2009-17167	SEP72-06175	Conventional	1972	STONE RD	sfr
043013429090	Septic System Known / Required Inspection NOT Current	SOM2009-17168	SEP78-05529	Conventional	1979	STONE RD	sfr
043013429100	Septic System Known / Required Inspection NOT Current	SOM2009-17169	SEP79-00630	Conventional	1979	STONE RD	sfr
043013429110	Septic System Known / Required Inspection NOT Current	SOM2009-17170	SEP90-00292	Sand Line Pressure	1991	STONE RD	sfr
043013429120	Septic System Known / Required Inspection NOT Current	SOM2009-17171	SEP78-04656	Conventional	1978	WILLIAMSON RD	sfr
043013429130	Septic System Known / Required Inspection NOT Current	SOM2009-17172	SEP80-00470	Conventional	1980	WILLIAMSON RD	sfr
043013429150	Septic System Known / Required Inspection NOT Current	SOM2009-17174	SEP82-00027	Conventional	1982	WILLIAMSON RD	sfr
043013429170	Septic System Known / Required Inspection NOT Current	SOM2009-17175	SEP82-00288	Conventional	1982	STONE RD	sfr
043013429180	Septic System Known / Required Inspection NOT Current	SOM2009-17176	SEP89-00090	Conventional	1989	WILLIAMSON RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013429190	Septic System Known / Required Inspection NOT Current	SOM2009-17179	SEP75-06544	Conventional	1975	WILLIAMSON RD	sfr
043013429220	Septic System Known / Required Inspection NOT Current	SOM2009-17181	SEP92-00037	Conventional	1994	WILLIAMSON RD	sfr
043013429240	Septic System Known / Required Inspection NOT Current	SOM2009-17182	SEP2004-00140	Conventional	2005	STONE RD	sfr
043013429250	Septic System Known / Required Inspection NOT Current	SOM2009-17183	SEP93-00513	Conventional	1994	STONE RD	sfr
043013430025	Septic System Known / Required Inspection NOT Current	SOM2009-17184	SEP98-00143	Pressure	1998	WRIGHT RD	vac
043013430050	Septic System Known / Required Inspection NOT Current	SOM2009-17185	SEP72-NP260	Conventional	1972	WRIGHT RD	sfr
043013430075	Septic System Known / Required Inspection NOT Current	SOM2009-17188	SEP72-06050	Conventional	1972	WRIGHT RD	sfr
043013430250	Septic System Known / Required Inspection NOT Current	SOM2009-17189	SEP2011-00064	Sand Line Pressure	2011	HENDRICKSON RD	sfr
043013430325	Septic System Known / Required Inspection NOT Current	SOM2009-17192	SEP76-03702	Conventional	1976	WRIGHT RD	sfr
043013430428	Septic System Known / Required Inspection NOT Current	SOM2009-17193	SEP91-00058	Pressure	1992	HENDRICKSON RD	sfr
043013439010	Septic System Known / Required Inspection NOT Current	SOM2009-17194	SEP2004-00077	Conventional	2004	LOIS LN	sfr
043013439050	Septic System Known / Required Inspection NOT Current	SOM2009-17196	sep90-np329	Conventional	1970	HENDRICKSON RD	sfr
043013439110	Septic System Known / Required Inspection NOT Current	SOM2009-17197	SEP2003-00173	Sand Line Pressure	2005	WRIGHT RD	sfr
043013439120	Septic System Known / Required Inspection NOT Current	SOM2009-31603	SEP2004-00118	Sand Line Pressure	2012	WRIGHT RD	sfr
043013439130	Septic System Known / Required Inspection NOT Current	SOM2009-17198	SEP88-NP454	Conventional	1988	HENDRICKSON RD	sfr
043013439140	Septic System Known / Required Inspection NOT Current	SOM2009-17199	SEP2007-00329	Conventional	2009	HENDRICKSON RD	sfr
043013439150	Septic System Known / Required Inspection NOT Current	SOM2009-17200	SEP2012-NP420	Conventional	1968	WRIGHT RD	sfr
043013439160	Septic System Known / Required Inspection NOT Current	SOM2009-17201	sep80-10092	Conventional	1980	WRIGHT RD	sfr
043013440000	Septic System Known / Required Inspection NOT Current	SOM2009-17202	SEP79-00468	Conventional	1980	WRIGHT RD	sfr
043013440025	Septic System Known / Required Inspection NOT Current	SOM2009-17203	SEP76-02741	Conventional	1976	WRIGHT RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013440050	Septic System Known / Required Inspection NOT Current	SOM2009-17204	SEP86-00072	Conventional	1986	WRIGHT RD	sfr
043013440075	Septic System Known / Required Inspection NOT Current	SOM2009-17205	SEP75-09400	Conventional	1975	WRIGHT RD	sfr
043013440175	Septic System Known / Required Inspection NOT Current	SOM2009-17206	SEP97-00312	Sand Line Pressure	1997	KENDALL RD	mh
043013449010	Septic System Known / Required Inspection NOT Current	SOM2009-17207	SEP89-00370	Pressure	1990	WRIGHT LN	sfr
043013449030	Septic System Known / Required Inspection NOT Current	SOM2009-17208	SEP89-00320	Pressure	1990	WRIGHT LN	sfr
043013449050	Septic System Known / Required Inspection NOT Current	SOM2009-17209	SEP84-00191	Conventional	1984	WRIGHT LN	sfr
043013449060	Septic System Known / Required Inspection NOT Current	SOM2009-17210	SEP2006-00108	Sand Filter Pressure	2006	WRIGHT LN	sfr
043013449070	Septic System Known / Required Inspection NOT Current	SOM2009-17213	SEP2003-00399	Sand Line Pressure	2003	WRIGHT LN	sfr
043013449100	Septic System Known / Required Inspection NOT Current	SOM2009-17214	SEP79-00149	Conventional	1979	KENDALL RD	sfr
043013449120	Septic System Known / Required Inspection NOT Current	SOM2009-17215	SEP79-05561	Conventional	1979	KENDALL RD	sfr
043013449130	Septic System Known / Required Inspection NOT Current	SOM2009-17216	SEP92-00317	Pressure	1992	KENDALL RD	sfr
043013449140	Septic System Known / Required Inspection NOT Current	SOM2009-17217	SEP2002-00157	Sand Line Pressure	2003	KENDALL RD	sfr
043013449150	Septic System Known / Required Inspection NOT Current	SOM2009-17218	SEP93-00540	Pressure	1994	KENDALL RD	sfr
043013449160	Septic System Known / Required Inspection NOT Current	SOM2009-31604	SEP96-00030	Sand Line Pressure	1997	KENDALL RD	sfr
043013449170	Septic System Known / Required Inspection NOT Current	SOM2009-17219	SEP97-00166	Sand Line Pressure	1997	HENDRICKSON RD	mh
043013449180	Septic System Known / Required Inspection NOT Current	SOM2009-17220	SEP70-08259	Conventional	1970	HENDRICKSON RD	sfr
043013449190	Septic System Known / Required Inspection NOT Current	SOM2009-17221	SEP92-00214	Sand Line Pressure	1994	HENDRICKSON RD	sfr
043013449210	Septic System Known / Required Inspection NOT Current	SOM2009-17222	SEP2007-00007	Sand Line Pressure	2007	WRIGHT RD	sfr
043013449230	Septic System Known / Required Inspection NOT Current	SOM2009-17223	SEP93-00444	Pressure	1996	WRIGHT RD	sfr
043013449240	Septic System Known / Required Inspection NOT Current	SOM2009-17224	SEP86-00154	Conventional	1986	WRIGHT RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013449250	Septic System Known / Required Inspection NOT Current	SOM2009-17226	SEP75-08461	Conventional	1975	HENDRICKSON RD	vac
043013449270	Septic System Known / Required Inspection NOT Current	SOM2009-17230	SEP99-00048	Sand Line Pressure	1999	HENDRICKSON RD	vac
043013500090	Septic System Known / Required Inspection NOT Current	SOM2009-17231	SEP72-06225	Conventional	1972	SCOTT DR	sfr
043013500100	Septic System Known / Required Inspection NOT Current	SOM2009-17232	SEP73-06975	Conventional	1973	MANTLE RD	sfr
043013500110	Septic System Known / Required Inspection NOT Current	SOM2009-17233	SEP89-00112	Conventional	1990	MANTLE RD	sfr
043013500115	Septic System Known / Required Inspection NOT Current	SOM2009-17234	SEP90-00606	Conventional	1990	MANTLE RD	sfr
043013500130	Septic System Known / Required Inspection NOT Current	SOM2009-17235	SEP74-02679	Conventional	1974	MANTLE RD	sfr
043013500140	Septic System Known / Required Inspection NOT Current	SOM2009-17236	SEP88-00289	Conventional	1988	OLD OLYMPIC HWY	mfr
043013500150	Septic System Known / Required Inspection NOT Current	SOM2009-17237	SEP96-00110	Pressure	1996	MANTLE RD	sfr
043013500155	Septic System Known / Required Inspection NOT Current	SOM2009-17238	SEP96-00109	Sand Line Pressure	1996	MANTLE RD	sfr
043013500160	Septic System Known / Required Inspection NOT Current	SOM2009-17240	SEP74-13328	Conventional	1974	MANTLE RD	sfr
043013500195	Septic System Known / Required Inspection NOT Current	SOM2009-17241	SEP77-04255	Conventional	1978	SCOTT DR	sfr
043013500220	Septic System Known / Required Inspection NOT Current	SOM2009-17242	SEP73-07421	Conventional	1973	ROBBINS RD	mh
043013500240	Septic System Known / Required Inspection NOT Current	SOM2009-17243	SEP84-00061	Conventional	1984	MANTLE RD	sfr
043013509010	Septic System Known / Required Inspection NOT Current	SOM2009-17244	SEP72-09489	Conventional	1972	MANTLE RD	sfr
043013509020	Septic System Known / Required Inspection NOT Current	SOM2009-17245	SEP86-00070	Conventional	1986	SCOTT DR	sfr
043013509040	Septic System Known / Required Inspection NOT Current	SOM2009-17246	SEP75-08216	Conventional	1975	SCOTT DR	sfr
043013509050	Septic System Known / Required Inspection NOT Current	SOM2009-17247	SEP89-00159	Conventional	1989	MANTLE RD	sfr
043013509060	Septic System Known / Required Inspection NOT Current	SOM2009-17248	SEP76-03150	Conventional	1976	MANTLE RD	sfr
043013509070	Septic System Known / Required Inspection NOT Current	SOM2009-17249	SEP86-00353	Conventional	1987	MANTLE RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013509080	Septic System Known / Required Inspection NOT Current	SOM2009-17250	SEP77-01330	Conventional	1977	MANTLE RD	sfr
043013509090	Septic System Known / Required Inspection NOT Current	SOM2009-17251	SEP91-00407	Conventional	1992	MANTLE RD	sfr
043013509100	Septic System Known / Required Inspection NOT Current	SOM2009-17252	SEP80-00048	Conventional	1980	MANTLE RD	sfr
043013509110	Septic System Known / Required Inspection NOT Current	SOM2009-17253	SEP2001-00459	Conventional	2002	MANTLE RD	sfr
043013509120	Septic System Known / Required Inspection NOT Current	SOM2009-17254	SEP80-00342	Conventional	1981	SCOTT DR	sfr
043013509130	Septic System Known / Required Inspection NOT Current	SOM2009-17255	SEP89-00267	Conventional	1990	SCOTT DR	sfr
043013509140	Septic System Known / Required Inspection NOT Current	SOM2009-17256	SEP77-02239	Unknown	1977	MANTLE RD	sfr
043013509150	Septic System Known / Required Inspection NOT Current	SOM2009-17257	SEP93-00021	Conventional	1994	MANTLE RD	sfr
043013509160	Septic System Known / Required Inspection NOT Current	SOM2009-17258	SEP90-00575	Conventional	1991	BEESON RD	sfr
043013510000	Septic System Known / Required Inspection NOT Current	SOM2009-17259	SEP93-00075	Sand Line Pressure	1993	CRYSTAL CT	mfr
043013530010	Septic System Known / Required Inspection NOT Current	SOM2009-17260	SEP89-00346	Conventional	1990	SCOTT DR	sfr
043013530020	Septic System Known / Required Inspection NOT Current	SOM2009-17265	SEP99-00443	Conventional	2000	SCOTT DR	sfr
043013540050	Septic System Known / Required Inspection NOT Current	SOM2009-17266	SEP2003-00131	Sand Line Pressure	2003	BIG SKY LN	mh
043013540060	Septic System Known / Required Inspection NOT Current	SOM2009-17268	SEP99-00108	Conventional	1999	BIG SKY LN	mh
043013540080	Septic System Known / Required Inspection NOT Current	SOM2009-17269	SEP99-00442	Sand Line Pressure	2000	BIG SKY LN	mh
043013540090	Septic System Known / Required Inspection NOT Current	SOM2009-17270	SEP99-00120	Conventional	1999	BIG SKY LN	mh
043013540100	Septic System Known / Required Inspection NOT Current	SOM2009-17271	SEP2001-00111	Sand Line Pressure	2001	BIG SKY LN	mh
043013550010	Septic System Known / Required Inspection NOT Current	SOM2009-17272	SEP99-00539	Conventional	2000	MANTLE RD	sfr
043013550020	Septic System Known / Required Inspection NOT Current	SOM2009-31605	SEP99-00125	Conventional	1999	MANTLE RD	sfr
043014110000	Septic System Known / Required Inspection NOT Current	SOM2009-17278	SEP95-00209	Sand Line Pressure	1995	MARCHBANKS RD	sfr_ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043014140025	Septic System Known / Required Inspection NOT Current	SOM2009-17279	SEP91-00395	Conventional	1992	RIVERVIEW DR	sfr
043014140085	Septic System Known / Required Inspection NOT Current	SOM2009-17280	SEP89-00466	Conventional	1990	RIVERVIEW DR	sfr
043014149020	Septic System Known / Required Inspection NOT Current	SOM2009-17281	sep83-00201	Conventional	1983	RIVERVIEW DR	sfr
043014149050	Septic System Known / Required Inspection NOT Current	SOM2009-17282	SEP2000-00004	Sand Line Pressure	2003	RIVERVIEW DR	sfr
043014149070	Septic System Known / Required Inspection NOT Current	SOM2009-17283	SEP94-00187	Conventional	1994	RIVERVIEW DR	sfr
043014149080	Septic System Known / Required Inspection NOT Current	SOM2009-17284	SEP83-00338	Conventional	1983	RIVERVIEW DR	sfr
043014149110	Septic System Known / Required Inspection NOT Current	SOM2009-17394	SEP84-00098	Conventional	1984	RIVERVIEW DR	sfr
043014410025	Septic System Known / Required Inspection NOT Current	SOM2009-17395	SEP92-00564	Conventional	1994	RIVERVIEW DR	sfr
043014410050	Septic System Known / Required Inspection NOT Current	SOM2009-17397	SEP97-00407	Conventional	1998	RIVERVIEW DR	sfr
043014419030	Septic System Known / Required Inspection NOT Current	SOM2009-18694	SEP84-00340	Conventional	1987	RIVERSIDE RD	sfr
043023110175	Septic System Known / Required Inspection NOT Current	SOM2009-18821	SEP95-00328	Sand Line Pressure	1999	HENDRICKSON RD	tribe
043023410050	Septic System Known / Required Inspection NOT Current	SOM2009-18822	SEP2004-00572	Conventional	2008	WASHINGTON ST	sfr
043023419000	Septic System Known / Required Inspection NOT Current	SOM2009-18823	SEP79-03680	Conventional	1979	KAISER PL	sfr
043023419010	Septic System Known / Required Inspection NOT Current	SOM2009-18824	SEP90-00387	Conventional	1991	KAISER PL	sfr
043023419020	Septic System Known / Required Inspection NOT Current	SOM2009-31610	SEP90-00382	Conventional	1990	KAISER PL	sfr
043023419030	Septic System Known / Required Inspection NOT Current	SOM2009-18825	SEP2004-00595	Sand Line Pressure	2005	KAISER PL	sfr
043023419040	Septic System Known / Required Inspection NOT Current	SOM2009-18826	sep2005-np491	Conventional	1970	KAISER PLACE	sfr
043023419050	Septic System Known / Required Inspection NOT Current	SOM2009-18827	SEP97-00267	Conventional	1997	KAISER PL	sfr
043023419060	Septic System Known / Required Inspection NOT Current	SOM2009-18828	SEP92-00669	Conventional	1993	KAISER PL	mh
043023419070	Septic System Known / Required Inspection NOT Current	SOM2009-18829	SEP2002-00258	Conventional	2003	KAISER PL	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043023419080	Septic System Known / Required Inspection NOT Current	SOM2009-18848	SEP94-00489	Conventional	1994	KAISER PL	cml
043023440020	Septic System Known / Required Inspection NOT Current	SOM2009-18849	SEP2003-00313	Conventional	2004	HEAD GATE RD	mh
043023440125	Septic System Known / Required Inspection NOT Current	SOM2009-18850	SEP71-08469	Conventional	1971	HEAD GATE RD	sfr
043023440150	Septic System Known / Required Inspection NOT Current	SOM2009-18851	SEP84-00164	Conventional	1986	HWY 101	rd
043023449010	Septic System Known / Required Inspection NOT Current	SOM2009-18852	SEP83-00033	Conventional	1985	HEAD GATE RD	mh
043023449020	Septic System Known / Required Inspection NOT Current	SOM2009-18853	SEP96-00076	Conventional	1996	HEAD GATE RD	mh
043023449030	Septic System Known / Required Inspection NOT Current	SOM2009-18854	SEP2002-00087	Conventional	2003	HEAD GATE RD	mh
043023449040	Septic System Known / Required Inspection NOT Current	SOM2009-18855	SEP96-00511	Sand Line Pressure	1997	HEAD GATE RD	sfr
043023449060	Septic System Known / Required Inspection NOT Current	SOM2009-18856	SEP2001-00401	Pressure	2002	HEAD GATE RD	mh
043023449070	Septic System Known / Required Inspection NOT Current	SOM2009-18858	SEP92-00648	Conventional	1994	HEAD GATE RD	mh
043023449110	Septic System Known / Required Inspection NOT Current	SOM2009-18874	SEP83-00034	Conventional	1983	HEAD GATE RD	vac
043024110080	Septic System Known / Required Inspection NOT Current	SOM2009-18875	SEP97-00083	Sand Line Pressure	2000	HENDRICKSON RD	mh
043024110100	Septic System Known / Required Inspection NOT Current	SOM2009-18877	SEP74-02725	Conventional	1974	HENDRICKSON RD	mh
043024110125	Septic System Known / Required Inspection NOT Current	SOM2009-18876	SEP86-22786	Conventional	1986	HENDERICKSON RD	vac
043024110150	Septic System Known / Required Inspection NOT Current	SOM2009-00239	SEP90-NP027	Conventional	1969	HENDRICKSON RD	sfr
043024110175	Septic System Known / Required Inspection NOT Current	SOM2009-18878	SEP74-02773	Conventional	1974	HENDRICKSON RD	sfr
043024119000	Septic System Known / Required Inspection NOT Current	SOM2009-18879	SEP2003-00308	Sand Line Pressure	2003	HENDRICKSON RD	mh
043024119010	Septic System Known / Required Inspection NOT Current	SOM2009-18880	SEP95-00259	Sand Line Pressure	1995	OAK CT	sfr
043024119020	Septic System Known / Required Inspection NOT Current	SOM2007-00036	SEP96-00222	Pressure	1996	OAK CT	mh
043024119030	Septic System Known / Required Inspection NOT Current	SOM2009-18882	SEP92-00054	Sand Line Pressure	1996	FIR ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024120000	Septic System Known / Required Inspection NOT Current	SOM2009-18883	SEP87-10083	Conventional	1988	HENDRICKSON RD	sfr
043024120025	Septic System Known / Required Inspection NOT Current	SOM2009-18884	SEP73-06707	Conventional	1973	PRIEST RD	sfr
043024120050	Septic System Known / Required Inspection NOT Current	SOM2009-18885	SEP73-06916	Conventional	1973	PRIEST RD	sfr
043024120100	Septic System Known / Required Inspection NOT Current	SOM2009-18886	SEP81-10001	Conventional	1982	PRIEST RD	sfr_ag
043024120200	Septic System Known / Required Inspection NOT Current	SOM2009-18889	SEP99-NP178	Conventional	1968	PRIEST RD	sfr
043024129030	Septic System Known / Required Inspection NOT Current	SOM2009-18890	SEP76-02884	Conventional	1976	PRIEST RD	vac
043024129040	Septic System Known / Required Inspection NOT Current	SOM2009-18891	SEP89-00384	Pressure	1990	PRIEST RD	mh
043024129050	Septic System Known / Required Inspection NOT Current	SOM2009-18892	SEP80-00482	Conventional	1980	PRIEST RD	sfr
043024129060	Septic System Known / Required Inspection NOT Current	SOM2009-18893	SEP2000-00090	Sand Line Pressure	2000	PRIEST LN	mh
043024129070	Septic System Known / Required Inspection NOT Current	SOM2009-18894	SEP90-00498	Pressure	1991	PRIEST RD	sfr
043024129080	Septic System Known / Required Inspection NOT Current	SOM2009-18895	SEP80-00253	Conventional	1980	PRIEST RD	sfr
043024129090	Septic System Known / Required Inspection NOT Current	SOM2009-18897	sep93-np075	Conventional	1970	PRIEST RD	sfr
043024129110	Septic System Known / Required Inspection NOT Current	SOM2009-18900	SEP90-00456	Pressure	1992	PRIEST RD	mh
043024129150	Septic System Known / Required Inspection NOT Current	SOM2009-18901	SEP2007-00287	Sand Line Pressure	2008	PRIEST LN	mh
043024129160	Septic System Known / Required Inspection NOT Current	SOM2009-18902	SEP2011-00170	Sand Line Pressure	0	PRIEST LN	sfr
043024130000	Septic System Known / Required Inspection NOT Current	SOM2009-18903	SEP74-02494	Conventional	1974	SPRUCE CT	sfr
043024130025	Septic System Known / Required Inspection NOT Current	SOM2009-18904	SEP73-07192	Conventional	1973	PRIEST RD	sfr
043024130125	Septic System Known / Required Inspection NOT Current	SOM2009-18905	sep2002-00361	Sand Line Pressure	2011	PRIEST RD	vac
043024130175	Septic System Known / Required Inspection NOT Current	SOM2009-18906	SEP77-01156	Conventional	1977	BRACKETT RD	sfr
043024219000	Septic System Known / Required Inspection NOT Current	SOM2009-18907	SEP77-01393	Conventional	1977	PRIEST LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024219010	Septic System Known / Required Inspection NOT Current	SOM2009-18908	SEP77-01018	Conventional	1977	PRIEST LN	sfr
043024219020	Septic System Known / Required Inspection NOT Current	SOM2009-18909	SEP77-07388	Conventional	1977	PRIEST LN	sfr
043024219030	Septic System Known / Required Inspection NOT Current	SOM2009-18910	SEP2001-00334	Sand Line Pressure	2002	PRIEST LN	sfr
043024219050	Septic System Known / Required Inspection NOT Current	SOM2009-18912	SEP76-08191	Conventional	1977	PRIEST LN	sfr
043024219070	Septic System Known / Required Inspection NOT Current	SOM2009-18913	SEP2003-00525	Conventional	2005	PRIEST RD	vac
043024219090	Septic System Known / Required Inspection NOT Current	SOM2009-18914	SEP92-00284	Conventional	1992	PRIEST LN	mh
043024219100	Septic System Known / Required Inspection NOT Current	SOM2009-18915	SEP79-08142	Conventional	1979	PRIEST LN	mh
043024219110	Septic System Known / Required Inspection NOT Current	SOM2009-18916	SEP86-00095	Conventional	1986	PRIEST LN	mh
043024219120	Septic System Known / Required Inspection NOT Current	SOM2009-18917	SEP86-00083	Conventional	1986	PRIEST LN	mh
043024219130	Septic System Known / Required Inspection NOT Current	SOM2009-18918	SEP90-00116	Conventional	1991	PRIEST LN	mh
043024220125	Septic System Known / Required Inspection NOT Current	SOM2009-18919	sep2004-np347	Conventional	1967	HENDRICKSON RD	sfr
043024220150	Septic System Known / Required Inspection NOT Current	SOM2009-18920	sep2000-np277	Conventional	1970	HENDRICKSON RD	sfr
043024220200	Septic System Known / Required Inspection NOT Current	SOM2009-18922	sep2002-00452	Pressure	2003	HENDRICKSON RD	sfr
043024220300	Septic System Known / Required Inspection NOT Current	SOM2009-18923	SEP81-00262	Conventional	1983	PRIEST LN	sfr
043024220425	Septic System Known / Required Inspection NOT Current	SOM2009-18924	SEP79-00498	Conventional	1980	PATRICIA LN	sfr
043024229000	Septic System Known / Required Inspection NOT Current	SOM2009-18925	SEP79-NP901	Conventional	1979	HENDRICKSON RD	sfr
043024229010	Septic System Known / Required Inspection NOT Current	SOM2009-18926	SEP94-00413	Conventional	1997	HENDRICKSON RD	sfr
043024229020	Septic System Known / Required Inspection NOT Current	SOM2009-18927	SEP75-09895	Conventional	1976	GREEN BRIAR LN	sfr
043024229030	Septic System Known / Required Inspection NOT Current	SOM2009-18928	SEP76-02340	Conventional	1976	GREEN BRIAR LN	sfr
043024229040	Septic System Known / Required Inspection NOT Current	SOM2009-18929	SEP98-00377	Conventional	1999	GREEN BRIAR LN	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024229050	Septic System Known / Required Inspection NOT Current	SOM2009-18930	SEP85-00087	Conventional	1985	GREEN BRIAR LN	mh
043024229060	Septic System Known / Required Inspection NOT Current	SOM2009-18933	SEP86-00041	Conventional	1986	GREEN BRIAR LN	sfr
043024229090	Septic System Known / Required Inspection NOT Current	SOM2009-18934	SEP82-00083	Conventional	1982	HENDRICKSON RD	sfr
043024229100	Septic System Known / Required Inspection NOT Current	SOM2009-18935	SEP68-NP783	Conventional	1968	HENDRICKSON RD	sfr
043024229110	Septic System Known / Required Inspection NOT Current	SOM2009-18936	SEP84-00255	Conventional	1984	HENDRICKSON RD	sfr
043024230000	Septic System Known / Required Inspection NOT Current	SOM2009-18937	SEP76-02496	Conventional	1976	PRIEST LN	sfr
043024230050	Septic System Known / Required Inspection NOT Current	SOM2009-18938	SEP81-00060	Conventional	1981	PATRICIA LN	sfr
043024239010	Septic System Known / Required Inspection NOT Current	SOM2009-18939	SEP80-00016	Conventional	1980	PATRICIA LN	sfr
043024239020	Septic System Known / Required Inspection NOT Current	SOM2009-18941	SEP90-00484	Conventional	1991	PATRICIA LN	sfr
043024239040	Septic System Known / Required Inspection NOT Current	SOM2009-18942	SEP91-00378	Conventional	1992	PATRICIA LN	mh
043024239050	Septic System Known / Required Inspection NOT Current	SOM2009-18943	SEP91-00225	Conventional	1992	PATRICIA LN	sfr
043024239060	Septic System Known / Required Inspection NOT Current	SOM2009-18944	SEP94-00279	Sand Line Pressure	1994	PATRICIA LN	sfr
043024239070	Septic System Known / Required Inspection NOT Current	SOM2009-18947	SEP96-00278	Conventional	1996	PATRICIA LN	sfr
043024310100	Septic System Known / Required Inspection NOT Current	SOM2009-18948	SEP97-00380	Sand Line Pressure	1997	GRANT RD	sfr
043024310150	Septic System Known / Required Inspection NOT Current	SOM2009-18950	sep2001-np497	Conventional	1973	RIVER RD	sfr
043024310200	Septic System Known / Required Inspection NOT Current	SOM2009-18952	SEP72-09176	Conventional	1972	GRANT RD	sfr
043024320025	Septic System Known / Required Inspection NOT Current	SOM2009-31479	SEP74-03347	Conventional	1974	GRACE LN	sfr
043024320100	Septic System Known / Required Inspection NOT Current	SOM2009-18953	SEP2006-00081	Conventional	2006	GRACE LN	sfr
043024329000	Septic System Known / Required Inspection NOT Current	SOM2009-18954	SEP79-00133	Conventional	1980	GRACE LN	sfr
043024329020	Septic System Known / Required Inspection NOT Current	SOM2009-18956	SEP81-00309	Conventional	1981	GRACE LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024329050	Septic System Known / Required Inspection NOT Current	SOM2009-18957	SEP72-06186	Conventional	1972	GRACE LN	sfr
043024329060	Septic System Known / Required Inspection NOT Current	SOM2009-18958	SEP2005-00150	Conventional	2005	GRACE LN	mh
043024329080	Septic System Known / Required Inspection NOT Current	SOM2009-18960	SEP2002-00369	Conventional	2003	GRACE LN	mh
043024330010	Septic System Known / Required Inspection NOT Current	SOM2009-18961	SEP97-00032	Sand Line Pressure	1999	GRANT RD	sfr
043024340000	Septic System Known / Required Inspection NOT Current	SOM2009-18962	SEP75-08053	Conventional	1975	TURNSTONE LN	sfr
043024340050	Septic System Known / Required Inspection NOT Current	SOM2009-18963	SEP85-10082	Conventional	1985	GRANT RD	sfr
043024340175	Septic System Known / Required Inspection NOT Current	SOM2009-18964	SEP70-08773	Conventional	1970	GRANT RD	sfr
043024340200	Septic System Known / Required Inspection NOT Current	SOM2009-18965	SEP72-09566	Conventional	1972	GRANT RD	sfr
043024340275	Septic System Known / Required Inspection NOT Current	SOM2009-18967	SEP76-02206	Conventional	1976	GRANT RD	sfr
043024349030	Septic System Known / Required Inspection NOT Current	SOM2009-18969	SEP86-00050	Conventional	1987	TURNSTONE LN	mh
043024349070	Septic System Known / Required Inspection NOT Current	SOM2009-18971	SEP89-00166	Pressure	1989	NARROW WAY	pub_q
043024349130	Septic System Known / Required Inspection NOT Current	SOM2009-18973	SEP89-00513	Pressure	1990	NARROW WAY	mh
043024349150	Septic System Known / Required Inspection NOT Current	SOM2009-18975	SEP81-00118	Conventional	1981	NARROW WAY	sfr
043024349200	Septic System Known / Required Inspection NOT Current	SOM2009-18976	SEP90-00796	Conventional	1991	NARROW WAY	sfr
043024349210	Septic System Known / Required Inspection NOT Current	SOM2009-18977	SEP92-00104	Conventional	1993	NARROW WAY	sfr
043024349220	Septic System Known / Required Inspection NOT Current	SOM2009-18978	SEP92-00105	Conventional	1994	NARROW WAY	sfr
043024349230	Septic System Known / Required Inspection NOT Current	SOM2009-18979	SEP2002-00402	Sand Line Pressure	2003		sfr
043024430125	Septic System Known / Required Inspection NOT Current	SOM2009-18984	SEP90-00275	Sand Line Pressure	1992	MARLO DR	sfr
043024439080	Septic System Known / Required Inspection NOT Current	SOM2009-18985	SEP72-09140	Conventional	1972	MARLO DR	sfr
043024439090	Septic System Known / Required Inspection NOT Current	SOM2009-18989	SEP90-00326	Sand Line Pressure	1991	MARLO DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024439210	Septic System Known / Required Inspection NOT Current	SOM2009-18990	SEP97-00353	Sand Line Pressure	1999	RIVER RD	mh
043024439220	Septic System Known / Required Inspection NOT Current	SOM2009-18991	SEP93-00085	Sand Line Pressure	1994	RIVER RD	vac
043024439230	Septic System Known / Required Inspection NOT Current	SOM2009-18995	SEP93-00258	Pressure	1993	RIVER RD	mh
043024440110	Septic System Known / Required Inspection NOT Current	SOM2009-18996	SEP69-01286	Conventional	1969	NINTH AVE	sfr
043024500000	Septic System Known / Required Inspection NOT Current	SOM2009-18999	SEP80-00082	Conventional	1980	OAK CT	sfr
043024500040	Septic System Known / Required Inspection NOT Current	SOM2009-19000	SEP99-00192	Pressure	2000	OAK CT	sfr
043024500055	Septic System Known / Required Inspection NOT Current	SOM2009-19001	SEP73-07669	Conventional	1973	OAK CT	sfr
043024500060	Septic System Known / Required Inspection NOT Current	SOM2009-19002	SEP76-08362	Conventional	1976	OAK CT	sfr
043024500070	Septic System Known / Required Inspection NOT Current	SOM2009-19003	SEP78-03020	Conventional	1978	OAK CT	sfr
043024500080	Septic System Known / Required Inspection NOT Current	SOM2009-19004	SEP77-02509	Conventional	1977	OAK CT	sfr
043024500100	Septic System Known / Required Inspection NOT Current	SOM2009-19005	SEP74-32674	Conventional	1974	OAK CT	sfr
043024500110	Septic System Known / Required Inspection NOT Current	SOM2009-19006	SEP80-00594	Conventional	1981	OAK CT	sfr
043024500120	Septic System Known / Required Inspection NOT Current	SOM2009-19007	SEP73-07470	Conventional	1973	OAK CT	sfr
043024509010	Septic System Known / Required Inspection NOT Current	SOM2009-19008	SEP91-NP232	Conventional	1968	OAK CT	sfr
043024509020	Septic System Known / Required Inspection NOT Current	SOM2009-19009	SEP2001-00095	Conventional	2001	PRIEST RD	sfr
043024509030	Septic System Known / Required Inspection NOT Current	SOM2009-19010	SEP93-00158	Pressure	1994	PALO VERDE LOOP	sfr
043024510000	Septic System Known / Required Inspection NOT Current	SOM2009-19013	SEP90-00302	Pressure	1991	SPRUCE CT	sfr
043024510030	Septic System Known / Required Inspection NOT Current	SOM2009-19014	SEP77-11987	Conventional	1978	SPRUCE CT	sfr
043024510040	Septic System Known / Required Inspection NOT Current	SOM2009-19017	SEP92-00470	Conventional	1993	SPRUCE CT	sfr
043024510070	Septic System Known / Required Inspection NOT Current	SOM2009-19018	SEP78-05758	Conventional	1979	PALO VERDE LOOP	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024510080	Septic System Known / Required Inspection NOT Current	SOM2009-19020	SEP75-09740	Conventional	1975	PALO VERDE LOOP	sfr
043024510090	Septic System Known / Required Inspection NOT Current	SOM2009-19021	SEP77-02955	Conventional	1977	PALO VERDE LOOP	sfr
043024510100	Septic System Known / Required Inspection NOT Current	SOM2009-19022	SEP74-03006	Conventional	1974	PALO VERDE LOOP	sfr
043024510120	Septic System Known / Required Inspection NOT Current	SOM2009-19023	SEP96-00039	Sand Line Pressure	1996	PALO VERDE LOOP	sfr
043024510130	Septic System Known / Required Inspection NOT Current	SOM2009-19025	SEP74-03817	Conventional	2012	PALO VERDE LOOP	sfr
043024510140	Septic System Known / Required Inspection NOT Current	SOM2009-19026	sep2006-np424	Conventional	1970	ALDER CT	sfr
043024510160	Septic System Known / Required Inspection NOT Current	SOM2009-19027	SEP90-00147	Conventional	1990	ALDER CT	sfr
043024510170	Septic System Known / Required Inspection NOT Current	SOM2009-19029	SEP2001-00302	Sand Line Pressure	2001	SPRUCE CT	sfr
043024510180	Septic System Known / Required Inspection NOT Current	SOM2009-19030	SEP77-07383	Conventional	1977	SPRUCE CT	sfr
043024510200	Septic System Known / Required Inspection NOT Current	SOM2009-19032	SEP77-22647	Conventional	1977	ALDER CT	sfr
043024510210	Septic System Known / Required Inspection NOT Current	SOM2009-19033	SEP76-11215	Conventional	1976	SPRUCE CT	sfr
043024510230	Septic System Known / Required Inspection NOT Current	SOM2009-19034	SEP78-03391	Conventional	1978	PALO VERDE LOOP	sfr
043024510240	Septic System Known / Required Inspection NOT Current	SOM2009-19035	SEP78-14196	Conventional	1978	PALO VERDE LOOP	sfr
043024510250	Septic System Known / Required Inspection NOT Current	SOM2009-00236	SEP76-21215	Conventional	1976	PALO VERDE LOOP	sfr
043024510260	Septic System Known / Required Inspection NOT Current	SOM2009-19037	SEP76-31215	Conventional	1976	SPRUCE CT	sfr
043024530110	Septic System Known / Required Inspection NOT Current	SOM2009-19039	SEP73-07583	Conventional	1973	OAK CT	mfr
043025110000	Septic System Known / Required Inspection NOT Current	SOM2009-19040	SEP2003-00044	Unknown	2007	SILBERHORN RD	sfr
043025110150	Septic System Known / Required Inspection NOT Current	SOM2009-19041	SEP73-02402	Conventional	1973	VALLEY VIEW DR	sfr
043025110175	Septic System Known / Required Inspection NOT Current	SOM2009-19042	SEP73-02277	Conventional	1973	VALLEY VIEW DR	sfr
043025110200	Septic System Known / Required Inspection NOT Current	SOM2009-19043	SEP72-67321	Conventional	1973	SILBERHORN RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025110225	Septic System Known / Required Inspection NOT Current	SOM2009-19044	SEP85-00325	Pressure	1985	SILBERHORN RD	mh
043025119000	Septic System Known / Required Inspection NOT Current	SOM2009-19045	SEP81-00052	Conventional	1982	QUIET PL	mh
043025119010	Septic System Known / Required Inspection NOT Current	SOM2009-19046	SEP83-00065	Conventional	1983	LOMA VISTA RD	mh
043025119020	Septic System Known / Required Inspection NOT Current	SOM2009-19047	SEP80-00671	Conventional	1981	LOMA VISTA RD	sfr
043025119030	Septic System Known / Required Inspection NOT Current	SOM2009-19048	SEP90-00624	Conventional	1991	LOMA VISTA RD	mh
043025119040	Septic System Known / Required Inspection NOT Current	SOM2009-19050	SEP80-00335	Conventional	1980	SILBERHORN RD	sfr
043025119050	Septic System Known / Required Inspection NOT Current	SOM2009-19051	SEP89-00306	Conventional	1990	QUIET LN	mh
043025119070	Septic System Known / Required Inspection NOT Current	SOM2009-19052	SEP90-00161	Conventional	1990	QUIET PL	mh
043025119085	Septic System Known / Required Inspection NOT Current	SOM2009-19053	SEP84-00139	Pressure	1984	SILBERHORN RD	sfr
043025119090	Septic System Known / Required Inspection NOT Current	SOM2009-19055	SEP84-00356	Sand Line Pressure	1985	SILBERHORN RD	sfr
043025119100	Septic System Known / Required Inspection NOT Current	SOM2009-19057	SEP84-00357	Sand Line Pressure	1985	SILBERHORN RD	sfr
043025120025	Septic System Known / Required Inspection NOT Current	SOM2009-19058	SEP71-09869	Conventional	1971	RIVER RD	vac
043025120200	Septic System Known / Required Inspection NOT Current	SOM2009-19059	SEP72-09017	Conventional	1972	SILBERHORN RD	vac
043025129025	Septic System Known / Required Inspection NOT Current	SOM2009-19060	SEP81-00280	Conventional	1982	EL RIO LANE	sfr
043025129030	Septic System Known / Required Inspection NOT Current	SOM2009-19061	SEP84-00314	Conventional	1984	EL RIO LN	sfr
043025129040	Septic System Known / Required Inspection NOT Current	SOM2009-19062	SEP84-00290	Conventional	1984	EL RIO LN	mh
043025129100	Septic System Known / Required Inspection NOT Current	SOM2009-19063	SEP92-00291	Sand Line Pressure	1992	SILBER LN	mfr
043025129120	Septic System Known / Required Inspection NOT Current	SOM2009-09064	SEP91-00236	Sand Line Pressure	1993	SILBER LN	mfr
043025129130	Septic System Known / Required Inspection NOT Current	SOM2009-19065	SEP97-00043	Sand Line Pressure	1997	SILBER LN	mfr
043025129140	Septic System Known / Required Inspection NOT Current	SOM2009-19069	SEP98-00011	Pressure	1998	SILBER LN	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025129150	Septic System Known / Required Inspection NOT Current	SOM2009-19070	SEP92-00526	Pressure	1994	SILBER LN	mfr
043025139060	Septic System Known / Required Inspection NOT Current	SOM2009-19071	SEP2005-00093	Sand Line Pressure	2005	VIKING WY	sfr
043025139065	Septic System Known / Required Inspection NOT Current	SOM2009-19072	SEP2005-00511	Pressure	2007	VIKING WY	sfr
043025139090	Septic System Known / Required Inspection NOT Current	SOM2009-19074	SEP89-00505	Pressure	1989	RIVER RD	mh
043025139100	Septic System Known / Required Inspection NOT Current	SOM2009-19075	SEP92-00110	Sand Line Pressure	1992	RIVER RD	mh
043025139130	Septic System Known / Required Inspection NOT Current	SOM2009-19076	SEP93-00561	Sand Line Pressure	1994	JUANITA CT	sfr
043025139140	Septic System Known / Required Inspection NOT Current	SOM2009-19077	SEP93-00560	Sand Line Pressure	1994	JUANITA CT	sfr
043025139150	Septic System Known / Required Inspection NOT Current	SOM2009-19079	SEP2001-00138	Sand Line Pressure	2001	JUANITA CT	sfr
043025139160	Septic System Known / Required Inspection NOT Current	SOM2009-19081	SEP2002-00337	Sand Line Pressure	2003	JUANITA CT	sfr
043025139180	Septic System Known / Required Inspection NOT Current	SOM2009-19084	SEP2002-00057	Sand Line Pressure	2002	JUANITA CT	sfr
043025139200	Septic System Known / Required Inspection NOT Current	SOM2009-19085	SEP99-00369	Sand Line Pressure	1999	JUANITA CT	sfr
043025139230	Septic System Known / Required Inspection NOT Current	SOM2009-19086	SEP2000-00059	Sand Line Pressure	2000	RIVER RD	sfr
043025139240	Septic System Known / Required Inspection NOT Current	SOM2009-19087	SEP2003-00502	Sand Line Pressure	2004	RIVER RD	sfr
043025139250	Septic System Known / Required Inspection NOT Current	SOM2009-19088	SEP2004-00178	Sand Line Pressure	2006	VIKING WY	sfr
043025139260	Septic System Known / Required Inspection NOT Current	SOM2009-19089	SEP2004-00179	Sand Line Pressure	2008	VIKING WY	sfr
043025139270	Septic System Known / Required Inspection NOT Current	SOM2009-19083	SEP2004-00180	Sand Line Pressure	2006	VIKING WY	sfr
043025139280	Septic System Known / Required Inspection NOT Current	SOM2009-19091	SEP2004-00181	Sand Line Pressure	2004	VIKING WY	sfr
043025139290	Septic System Known / Required Inspection NOT Current	SOM2009-19092	SEP73-41773	Conventional	1973	RIVER RD	sfr
043025149040	Septic System Known / Required Inspection NOT Current	SOM2009-19094	SEP89-00063	Pressure	1990	SILBERHORN RD	sfr
043025149045	Septic System Known / Required Inspection NOT Current	SOM2009-19095	SEP90-00562	Pressure	1991	SILBERHORN RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025149080	Septic System Known / Required Inspection NOT Current	SOM2009-19096	SEP83-00153	Conventional	1983	PHEASANT LN	sfr
043025149092	Septic System Known / Required Inspection NOT Current	SOM2009-19097	SEP90-00068	Conventional	1991	FALCON RD	sfr
043025149094	Septic System Known / Required Inspection NOT Current	SOM2009-19099	SEP2005-00493	Sand Line Pressure	2007	FALCON RD	sfr
043025149100	Septic System Known / Required Inspection NOT Current	SOM2009-19101	SEP79-03508	Conventional	1979	PHEASANT LN	sfr
043025149120	Septic System Known / Required Inspection NOT Current	SOM2009-19102	SEP79-08007	Conventional	1979	PHEASANT LN	sfr
043025149140	Septic System Known / Required Inspection NOT Current	SOM2009-19103	SEP90-00216	Conventional	1990	QUAIL LN	sfr
043025149150	Septic System Known / Required Inspection NOT Current	SOM2009-19104	SEP90-00217	Conventional	1990	QUAIL LN	sfr
043025149160	Septic System Known / Required Inspection NOT Current	SOM2009-19105	SEP90-00218	Conventional	1990	QUAIL LN	sfr
043025149180	Septic System Known / Required Inspection NOT Current	SOM2009-19106	SEP85-00257	Sand Line Pressure	1985	PHEASANT LN	sfr
043025149240	Septic System Known / Required Inspection NOT Current	SOM2009-19107	SEP82-00262	Conventional	1982	PHEASANT LN	sfr
043025149260	Septic System Known / Required Inspection NOT Current	SOM2009-19108	SEP95-00079	Pressure	1995	SILBERHORN RD	
043025149300	Septic System Known / Required Inspection NOT Current	SOM2009-19109	SEP88-00251	Pressure	1989	FALCON RD	sfr
043025149310	Septic System Known / Required Inspection NOT Current	SOM2009-19111	SEP2006-00380	Pressure	2009	QUAIL LN	sfr
043025149330	Septic System Known / Required Inspection NOT Current	SOM2009-19112	SEP93-00395	Sand Line Pressure	1994	FALCON RD	sfr
043025149370	Septic System Known / Required Inspection NOT Current	SOM2009-19113	SEP85-00127	Sand Line Pressure	1985	PHEASANT LN	sfr
043025149380	Septic System Known / Required Inspection NOT Current	SOM2009-19114	SEP90-00571	Pressure	1991	PHEASANT LN	sfr
043025149390	Septic System Known / Required Inspection NOT Current	SOM2009-19115	SEP88-00034	Pressure	1989	PHEASANT LN	sfr
043025149400	Septic System Known / Required Inspection NOT Current	SOM2009-19116	SEP80-00627	Conventional	1981	PHEASANT LN	sfr
043025149410	Septic System Known / Required Inspection NOT Current	SOM2009-19117	SEP90-00270	Sand Line Pressure	1990	FALCON RD	sfr
043025149420	Septic System Known / Required Inspection NOT Current	SOM2009-19118	SEP87-00142	Pressure	1988	FALCON RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025149430	Septic System Known / Required Inspection NOT Current	SOM2009-31480	SEP89-00425	Pressure	1990	SILBERHORN RD	
043025149440	Septic System Known / Required Inspection NOT Current	SOM2009-19119	SEP2004-00511	Pressure	2005	SILBERHORN RD	sfr
043025149450	Septic System Known / Required Inspection NOT Current	SOM2009-19120	SEP2003-00087	Unknown	2003	SILBERHORN RD	sfr
043025149460	Septic System Known / Required Inspection NOT Current	SOM2009-19121	SEP96-00433	Sand Line Pressure	1996	SILBERHORN RD	
043025149470	Septic System Known / Required Inspection NOT Current	SOM2009-19122	SEP92-00658	Sand Line Pressure	1993	FALCON RD	
043025149480	Septic System Known / Required Inspection NOT Current	SOM2009-19123	SEP92-00659	Sand Line Pressure	1993	FALCON RD	
043025149490	Septic System Known / Required Inspection NOT Current	SOM2009-19124	SEP2004-00026	Sand Line Pressure	2004	SILBERHORN RD	sfr
043025210150	Septic System Known / Required Inspection NOT Current	SOM2009-19125	SEP97-00386	Sand Line Pressure	1998	SILBERHORN RD	pub_os
043025210200	Septic System Known / Required Inspection NOT Current	SOM2009-31481	SEP2000-00474	Sand Line Pressure	2001	TURNSTONE LN	sfr
043025210230	Septic System Known / Required Inspection NOT Current	SOM2009-19126	SEP71-08145	Conventional	1972	TURNSTONE LN	sfr
043025210250	Septic System Known / Required Inspection NOT Current	SOM2009-19127	SEP2003-00197	Sand Line Pressure	2004	SILBERHORN RD	mh
043025210275	Septic System Known / Required Inspection NOT Current	SOM2009-19128	SEP79-00121	Conventional	1980	TURNSTONE LN	sfr
043025210300	Septic System Known / Required Inspection NOT Current	SOM2009-19129	SEP78-05643	Conventional	1979	TURNSTONE LN	sfr
043025219030	Septic System Known / Required Inspection NOT Current	SOM2009-19130	SEP71-08369	Conventional	1971	SILBERHORN RD	sfr
043025219070	Septic System Known / Required Inspection NOT Current	SOM2009-19131	SEP83-00366	Conventional	1984	RIVER RD	mh
043025219080	Septic System Known / Required Inspection NOT Current	SOM2009-19132	SEP89-00200	Pressure	1989	RIVER RD	mh
043025219090	Septic System Known / Required Inspection NOT Current	SOM2009-19133	SEP78-73178	Conventional	1978	RIVER RD	sfr
043025219100	Septic System Known / Required Inspection NOT Current	SOM2009-19136	SEP90-00719	Pressure	1990	SILBERHORN RD	mh
043025219110	Septic System Known / Required Inspection NOT Current	SOM2009-19137	SEP78-31378	Conventional	1979	RIVER RD	cml
043025219140	Septic System Known / Required Inspection NOT Current	SOM2009-19138	SEP90-00328	Pressure	1990	RIVER RD	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025219150	Septic System Known / Required Inspection NOT Current	SOM2009-19140	SEP2008-00183	Sand Line Pressure	2009	RIVER RD	vac
043025219160	Septic System Known / Required Inspection NOT Current	SOM2009-19141	SEP86-00269	Sand Line Pressure	1986	RIVER RD	mh
043025219180	Septic System Known / Required Inspection NOT Current	SOM2009-19143	SEP72-09198	Conventional	1972	RIVER RD	sfr
043025220125	Septic System Known / Required Inspection NOT Current	SOM2009-19144	SEP2000-00273	Sand Line Pressure	2001	TURNSTONE LN	sfr
043025220200	Septic System Known / Required Inspection NOT Current	SOM2009-19146	SEP93-NP007	Conventional	1970	SILBERHORN RD	sfr
043025220250	Septic System Known / Required Inspection NOT Current	SOM2009-19147	SEP93-00577	Pressure	1994	SILBERHORN RD	mh
043025220325	Septic System Known / Required Inspection NOT Current	SOM2009-19148	SEP68-05368	Conventional	1968	TURNSTONE LN	mh
043025229000	Septic System Known / Required Inspection NOT Current	SOM2009-19149	SEP89-00506	Pressure	1990	TURNSTONE LN	sfr
043025229020	Septic System Known / Required Inspection NOT Current	SOM2009-19150	SEP92-NP956	Conventional	1981	RONDALE DR	sfr
043025229030	Septic System Known / Required Inspection NOT Current	SOM2009-19151	SEP98-00277	Pressure	1998	TURNSTONE LN	sfr
043025229040	Septic System Known / Required Inspection NOT Current	SOM2009-19152	SEP2001-00278	Sand Line Pressure	2004	TURNSTONE LN	vac
043025229080	Septic System Known / Required Inspection NOT Current	SOM2009-19153	SEP77-01861	Conventional	1978	SILBERHORN RD	sfr
043025229090	Septic System Known / Required Inspection NOT Current	SOM2009-19154	SEP2008-00186	Sand Line Pressure	2009	SILBERHORN RD	sfr
043025229100	Septic System Known / Required Inspection NOT Current	SOM2009-19155	SEP77-01960	Conventional	1977	SILBERHORN RD	sfr
043025229110	Septic System Known / Required Inspection NOT Current	SOM2009-19156	SEP78-03153	Conventional	1978	SILBERHORN RD	sfr
043025229120	Septic System Known / Required Inspection NOT Current	SOM2009-19157	SEP82-00190	Conventional	1982	RONDALE DR	sfr
043025229130	Septic System Known / Required Inspection NOT Current	SOM2009-19158	SEP78-05883	Conventional	1979	RONDALE DR	sfr
043025229140	Septic System Known / Required Inspection NOT Current	SOM2009-19159	SEP2005-00530	Sand Line Pressure	2007	RONDALE DR	sfr
043025229150	Septic System Known / Required Inspection NOT Current	SOM2009-19162	SEP79-00478	Conventional	1980	RONDALE DR	sfr
043025229160	Septic System Known / Required Inspection NOT Current	SOM2009-19163	SEP85-NP195	Conventional	1985	RONDALE DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025229190	Septic System Known / Required Inspection NOT Current	SOM2009-19164	SEP84-00025	Sand Line Pressure	1984	SILBERHORN RD	mh
043025229200	Septic System Known / Required Inspection NOT Current	SOM2009-19165	SEP2007-00199	Sand Line Pressure	2010	RONDALE DR	vac
043025229210	Septic System Known / Required Inspection NOT Current	SOM2009-19167	SEP2000-00383	Sand Line Pressure	2002	RONDALE DR	sfr
043025230000	Septic System Known / Required Inspection NOT Current	SOM2009-19168	SEP2007-00035	Sand Line Pressure	2007	SILBERHORN RD	mh
043025230080	Septic System Known / Required Inspection NOT Current	SOM2009-19169	sep72-09435	Conventional	1972	SILBERHORN RD	sfr
043025230100	Septic System Known / Required Inspection NOT Current	SOM2009-19170	SEP90-00422	Pressure	1990	SILBERHORN RD	sfr
043025230125	Septic System Known / Required Inspection NOT Current	SOM2009-19171	SEP74-03252	Conventional	1974	SILBERHORN RD	sfr
043025230200	Septic System Known / Required Inspection NOT Current	SOM2009-19172	SEP90-00259	Conventional	1990	SILBERHORN RD	sfr
043025230225	Septic System Known / Required Inspection NOT Current	SOM2009-19173	SEP74-03986	Conventional	1975	SILBERHORN RD	sfr
043025230275	Septic System Known / Required Inspection NOT Current	SOM2009-19175	SEP77-02837	Conventional	1977	RIVERSIDE RD	sfr
043025230300	Septic System Known / Required Inspection NOT Current	SOM2009-19176	SEP76-02330	Conventional	1976	RIVERSIDE RD	sfr
043025239050	Septic System Known / Required Inspection NOT Current	SOM2009-19177	SEP92-00425	Sand Line Pressure	1992	RIVERDALE LN	sfr
043025239060	Septic System Known / Required Inspection NOT Current	SOM2009-19178	SEP92-00566	Pressure	1993	RIVERDALE LN	mh
043025239070	Septic System Known / Required Inspection NOT Current	SOM2009-19180	SEP91-00553	Sand Line Pressure	1992	RIVERDALE LN	sfr
043025239080	Septic System Known / Required Inspection NOT Current	SOM2009-19181	SEP94-00159	Sand Line Pressure	1997	RIVERSIDE RD	sfr
043025239100	Septic System Known / Required Inspection NOT Current	SOM2009-19182	SEP88-00232	Conventional	1988	RIVERSIDE RD	sfr
043025239110	Septic System Known / Required Inspection NOT Current	SOM2009-19183	SEP98-00050	Conventional	2000	RIVERSIDE RD	sfr
043025239120	Septic System Known / Required Inspection NOT Current	SOM2009-19184	sep87-00264	Conventional	0	RIVERSIDE RD	sfr
043025239130	Septic System Known / Required Inspection NOT Current	SOM2009-19185	SEP92-00183	Conventional	1994	RIVERSIDE RD	sfr
043025240000	Septic System Known / Required Inspection NOT Current	SOM2009-19186	SEP73-06761	Conventional	1973	RIVER RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025240025	Septic System Known / Required Inspection NOT Current	SOM2009-19188	SEP97-00332	Sand Line Pressure	1998	SILBERHORN RD	sfr
043025240050	Septic System Known / Required Inspection NOT Current	SOM2009-19189	SEP72-93771	Conventional	1972	RIVER RD	sfr
043025240100	Septic System Known / Required Inspection NOT Current	SOM2009-19190	SEP2004-00426	Sand Line Pressure	2004	SILBERHORN RD	sfr
043025240125	Septic System Known / Required Inspection NOT Current	SOM2009-19191	SEP79-00321	Conventional	1982	RIVER RD	sfr
043025240150	Septic System Known / Required Inspection NOT Current	SOM2009-19192	SEP90-00645	Pressure	1990	RIVER RD	mh
043025240250	Septic System Known / Required Inspection NOT Current	SOM2009-19193	SEP92-00203	Conventional	1994	ALICE PRK LN	mh
043025240275	Septic System Known / Required Inspection NOT Current	SOM2009-19194	SEP80-00121	Conventional	1980	SILBERHORN RD	mh
043025240300	Septic System Known / Required Inspection NOT Current	SOM2009-19195	SEP2001-00072	Sand Line Pressure	2001	SILBERHORN RD	mh
043025249000	Septic System Known / Required Inspection NOT Current	SOM2009-19196	SEP87-00044	Sand Line Pressure	1987	ALICE PRK LN	sfr
043025249010	Septic System Known / Required Inspection NOT Current	SOM2009-19198	SEP87-00032	Sand Line Pressure	1987	ALICE PRK LN	mh
043025249015	Septic System Known / Required Inspection NOT Current	SOM2009-19199	SEP73-07520	Conventional	1973	ALICE PRK LN	mh
043025249030	Septic System Known / Required Inspection NOT Current	SOM2009-19200	SEP80-00918	Conventional	1980	ASLAN DR	mh
043025249040	Septic System Known / Required Inspection NOT Current	SOM2009-19201	SEP90-00103	Pressure	1990	ASLAN DR	mh
043025249060	Septic System Known / Required Inspection NOT Current	SOM2009-19202	SEP95-00196	Pressure	1995	ASLAN DR	mh
043025249070	Septic System Known / Required Inspection NOT Current	SOM2009-19203	SEP99-00036	Sand Line Pressure	2000	ASLAN DR	mh
043025249080	Septic System Known / Required Inspection NOT Current	SOM2009-19204	SEP91-00156	Sand Line Pressure	1991	ASLAN DR	mh
043025249090	Septic System Known / Required Inspection NOT Current	SOM2009-19206	SEP78-05314	Conventional	1978	ASLAN DR	sfr
043025249100	Septic System Known / Required Inspection NOT Current	SOM2009-19207	SEP92-00048	Sand Line Pressure	1992	SILBERHORN RD	sfr
043025249120	Septic System Known / Required Inspection NOT Current	SOM2009-19211	SEP94-00252	Sand Line Pressure	1995	GLENDALE DR	sfr
043025249130	Septic System Known / Required Inspection NOT Current	SOM2009-19212	SEP2006-00193	Sand Line Pressure	2006	GLENDALE DR	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025249170	Septic System Known / Required Inspection NOT Current	SOM2009-19213	SEP96-00102	Sand Line Pressure	1996	GLENDALE DR	mh
043025310000	Septic System Known / Required Inspection NOT Current	SOM2009-19214	SEP72-09458	Conventional	1972	RIVER RD	sfr
043025310050	Septic System Known / Required Inspection NOT Current	SOM2009-19215	SEP71-83691	Conventional	1971	RIVER RD	mh
043025310075	Septic System Known / Required Inspection NOT Current	SOM2009-19216	SEP72-08934	Conventional	1972	RIVER RD	sfr
043025310100	Septic System Known / Required Inspection NOT Current	SOM2009-19217	SEP81-00401	Conventional	1981	RIVER RD	sfr
043025310150	Septic System Known / Required Inspection NOT Current	SOM2009-19218	SEP73-06726	Conventional	1973	RIVER RD	sfr
043025310175	Septic System Known / Required Inspection NOT Current	SOM2009-19220	SEP69-01593	Conventional	1969	RIVER RD	mh
043025310200	Septic System Known / Required Inspection NOT Current	SOM2009-19221	SEP74-03706	Conventional	1974	RIVER RD	sfr
043025310275	Septic System Known / Required Inspection NOT Current	SOM2009-19222	SEP77-02798	Conventional	1978	DEERHAVEN DR	sfr
043025310300	Septic System Known / Required Inspection NOT Current	SOM2009-19223	SEP77-02152	Conventional	1977	DEERHAVEN DR	sfr
043025310430	Septic System Known / Required Inspection NOT Current	SOM2009-19224	SEP76-02582	Conventional	1976	SECOR RD	sfr
043025310435	Septic System Known / Required Inspection NOT Current	SOM2009-19226	SEP2002-00075	Sand Line Pressure	2003	SECOR RD	sfr
043025310450	Septic System Known / Required Inspection NOT Current	SOM2009-19228	SEP75-06489	Conventional	1975	SECOR RD	sfr
043025310500	Septic System Known / Required Inspection NOT Current	SOM2009-19229	SEP70-18504	Conventional	1970	SECOR RD	sfr
043025319040	Septic System Known / Required Inspection NOT Current	SOM2009-19230	SEP94-00236	Sand Line Pressure	1994	LORRAINE DR	mh
043025319050	Septic System Known / Required Inspection NOT Current	SOM2009-19232	SEP84-00216	Conventional	1986	LORRAINE DR	mh
043025319070	Septic System Known / Required Inspection NOT Current	SOM2009-19233	SEP91-00265	Sand Line Pressure	1994	LORRAINE DR	sfr
043025319090	Septic System Known / Required Inspection NOT Current	SOM2009-19234	SEP78-03190	Conventional	1978	LORRAINE DR	sfr
043025319100	Septic System Known / Required Inspection NOT Current	SOM2009-19236	SEP78-13190	Conventional	1979	LORRAINE DR	sfr
043025319110	Septic System Known / Required Inspection NOT Current	SOM2009-19238	SEP84-00328	Conventional	1984	DEERHAVEN DR	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025319140	Septic System Known / Required Inspection NOT Current	SOM2009-19239	SEP86-00206	Sand Line Pressure	1986	LORRAINE DR	sfr
043025320050	Septic System Known / Required Inspection NOT Current	SOM2009-19242	SEP78-08237	Conventional	1979	SECOR RD	sfr
043025320100	Septic System Known / Required Inspection NOT Current	SOM2009-19243	SEP74-23170	Conventional	1974	SECOR RD	sfr
043025320250	Septic System Known / Required Inspection NOT Current	SOM2009-19244	SEP73-01010	Conventional	1973	LORRAINE DR	sfr
043025320275	Septic System Known / Required Inspection NOT Current	SOM2009-19245	SEP80-NP183	Conventional	1968	TIMBERSIDE LN	sfr
043025320325	Septic System Known / Required Inspection NOT Current	SOM2009-19246	SEP70-09403	Conventional	1970	TIMBERSIDE LN	mh
043025329000	Septic System Known / Required Inspection NOT Current	SOM2009-19248	SEP88-00305	Conventional	1988	TIMBERSIDE LN	sfr
043025329010	Septic System Known / Required Inspection NOT Current	SOM2009-19249	SEP2006-00279	Sand Line Pressure	2007	TIMBERSIDE LN	sfr
043025329030	Septic System Known / Required Inspection NOT Current	SOM2009-19251	SEP83-00307	Conventional	1983	RIVERSIDE RD	mh
043025329050	Septic System Known / Required Inspection NOT Current	SOM2009-19254	SEP98-00384	Pressure	1998	LORRAINE DR	mh
043025329100	Septic System Known / Required Inspection NOT Current	SOM2009-19255	SEP70-NP313	Conventional	1970	RIVERSIDE RD	sfr
043025330100	Septic System Known / Required Inspection NOT Current	SOM2009-19257	SEP2001-00349	Conventional	2003	KANE LN	sfr
043025330125	Septic System Known / Required Inspection NOT Current	SOM2009-19258	SEP73-02328	Conventional	1974	KANE LN	sfr
043025339020	Septic System Known / Required Inspection NOT Current	SOM2009-19260	SEP77-01866	Conventional	1977	KANE LN	sfr
043025339040	Septic System Known / Required Inspection NOT Current	SOM2009-19261	SEP76-02442	Conventional	1976	SECOR RD	sfr
043025339095	Septic System Known / Required Inspection NOT Current	SOM2009-19262	SEP78-03692	Conventional	1978	KANE LN	sfr
043025339115	Septic System Known / Required Inspection NOT Current	SOM2009-31564	SEP73-07067	Conventional	1973	KANE LN	sfr
043025339120	Septic System Known / Required Inspection NOT Current	SOM2009-19264	SEP98-00497	Sand Line Pressure	2001	KANE LN	sfr
043025339170	Septic System Known / Required Inspection NOT Current	SOM2009-19265	SEP75-09292	Conventional	1975	SECOR RD	mh
043025339180	Septic System Known / Required Inspection NOT Current	SOM2009-19266	SEP2004-00189	Sand Line Pressure	2005	WALLACE WY	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025339190	Septic System Known / Required Inspection NOT Current	SOM2009-31611	SEP99-00176	Sand Line Pressure	1999	WALLACE WY	vac
043025339200	Septic System Known / Required Inspection NOT Current	SOM2009-31482	SEP99-00177	Sand Line Pressure	1999	WALLACE WY	vac
043025339210	Septic System Known / Required Inspection NOT Current	SOM2009-31483	SEP2007-00016	Sand Filter Pressure	2007	SECOR RD	sfr
043025339220	Septic System Known / Required Inspection NOT Current	SOM2009-19270	SEP74-03904	Conventional	1974	WALLACE WY	sfr
043025339230	Septic System Known / Required Inspection NOT Current	SOM2009-19273	SEP2001-00301	Sand Line Pressure	2002	WALLACE WY	mh
043025340200	Septic System Known / Required Inspection NOT Current	SOM2009-19275	SEP90-00228	Sand Line Pressure	1993	SECOR RD	mh
043025349000	Septic System Known / Required Inspection NOT Current	SOM2009-19276	SEP77-02397	Conventional	1977	SECOR RD	sfr
043025349020	Septic System Known / Required Inspection NOT Current	SOM2009-19278	SEP87-00267	Pressure	1989	SECOR RD	sfr
043025349030	Septic System Known / Required Inspection NOT Current	SOM2009-19279	SEP76-03893	Conventional	1976	SECOR RD	sfr
043025349060	Septic System Known / Required Inspection NOT Current	SOM2009-19280	SEP81-00130	Conventional	1981	RIVER RD	mh
043025349070	Septic System Known / Required Inspection NOT Current	SOM2009-19281	SEP80-00576	Conventional	1980	RIVER RD	mh
043025349080	Septic System Known / Required Inspection NOT Current	SOM2009-19283	SEP89-00196	Pressure	1989	SECOR RD	sfr
043025349090	Septic System Known / Required Inspection NOT Current	SOM2009-19284	SEP89-00325	Pressure	1990	SECOR RD	mh
043025419020	Septic System Known / Required Inspection NOT Current	SOM2009-19285	SEP90-00241	Conventional	1990	QUAIL LN	sfr
043025419030	Septic System Known / Required Inspection NOT Current	SOM2009-19286	SEP82-00171	Conventional	1982	QUAIL LN	sfr
043025419040	Septic System Known / Required Inspection NOT Current	SOM2009-19287	SEP90-00329	Conventional	1990	QUAIL LN	sfr
043025419050	Septic System Known / Required Inspection NOT Current	SOM2009-19288	SEP2001-00155	Sand Line Pressure	2002	QUAIL LN	sfr
043025419060	Septic System Known / Required Inspection NOT Current	SOM2009-19290	SEP80-00353	Conventional	1980	QUAIL LN	sfr
043025419090	Septic System Known / Required Inspection NOT Current	SOM2009-19291	SEP83-00051	Conventional	1985	MOCKINGBIRD LN	sfr
043025419110	Septic System Known / Required Inspection NOT Current	SOM2009-19292	SEP83-00196	Conventional	1983	MOCKINGBIRD LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025419120	Septic System Known / Required Inspection NOT Current	SOM2009-19293	SEP87-00289	Conventional	1988	MOCKINGBIRD LN	sfr
043025419130	Septic System Known / Required Inspection NOT Current	SOM2009-19294	SEP81-00318	Conventional	1981	MOCKINGBIRD LN	sfr
043025419140	Septic System Known / Required Inspection NOT Current	SOM2009-19296	SEP2000-00402	Sand Line Pressure	2001	MOCKINGBIRD LN	sfr
043025419150	Septic System Known / Required Inspection NOT Current	SOM2009-19298	SEP88-00502	Conventional	1989	MOCKINGBIRD LN	sfr
043025419190	Septic System Known / Required Inspection NOT Current	SOM2009-19299	SEP2003-00019	Sand Line Pressure	2004	FALCON RD	sfr
043025419210	Septic System Known / Required Inspection NOT Current	SOM2009-19300	SEP90-00425	Conventional	1990	FALCON RD	sfr
043025419220	Septic System Known / Required Inspection NOT Current	SOM2009-19295	SEP90-00029	Conventional	1990	QUAIL LN	sfr
043025419230	Septic System Known / Required Inspection NOT Current	SOM2010-00081	SEP89-00365	Conventional	1990	QUAIL LN	sfr
043025419280	Septic System Known / Required Inspection NOT Current	SOM2009-19301	SEP89-00181	Conventional	1989	MOCKINGBIRD LN	
043025419290	Septic System Known / Required Inspection NOT Current	SOM2009-19303	SEP2007-00267	Sand Line Pressure	2009	MOCKINGBIRD LN	sfr
043025420050	Septic System Known / Required Inspection NOT Current	SOM2009-19304	SEP74-03242	Conventional	1974	RIVER RD	sfr
043025429010	Septic System Known / Required Inspection NOT Current	SOM2009-19305	SEP69-01409	Conventional	1971	AVELLANA RD	sfr
043025429020	Septic System Known / Required Inspection NOT Current	SOM2009-19306	SEP78-05402	Conventional	1979	AVELLANA RD	sfr
043025429030	Septic System Known / Required Inspection NOT Current	SOM2009-19307	SEP92-00654	Pressure	1993	AVELLANA RD	sfr
043025429040	Septic System Known / Required Inspection NOT Current	SOM2009-19309	SEP84-00075	Conventional	1984	AVELLANA RD	sfr
043025429050	Septic System Known / Required Inspection NOT Current	SOM2009-19311	SEP93-00095	Conventional	1994	AVELLANA RD	sfr
043025429080	Septic System Known / Required Inspection NOT Current	SOM2009-19312	SEP2003-00125	Sand Line Pressure	2003	AVELLANA RD	mh
043025429100	Septic System Known / Required Inspection NOT Current	SOM2009-19313	SEP2003-00158	Sand Line Pressure	2004	AVELLANA RD	mh
043025429110	Septic System Known / Required Inspection NOT Current	SOM2009-19314	SEP2009-00085	Pressure	2010	AVELLANA RD	vac
043025430000	Septic System Known / Required Inspection NOT Current	SOM2009-19315	SEP84-10035	Conventional	1984	RIVER RD	sfr_ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025500000	Septic System Known / Required Inspection NOT Current	SOM2009-19316	SEP90-00687	Pressure	1992	RIVER RD	sfr
043025500010	Septic System Known / Required Inspection NOT Current	SOM2009-19317	SEP74-03760	Conventional	1974	RIVER RD	sfr
043025500020	Septic System Known / Required Inspection NOT Current	SOM2009-19318	SEP82-00278	Conventional	1983	RIVER RD	mh
043025500030	Septic System Known / Required Inspection NOT Current	SOM2009-19319	SEP78-03039	Conventional	1978	RIVER RD	sfr
043025500040	Septic System Known / Required Inspection NOT Current	SOM2009-19320	SEP78-13039	Conventional	1978	RIVER RD	sfr
043025500050	Septic System Known / Required Inspection NOT Current	SOM2009-19321	SEP76-08028	Conventional	1976	RIVER RD	sfr
043025510000	Septic System Known / Required Inspection NOT Current	SOM2009-19322	SEP74-02374	Conventional	1974	LORRAINE DR	sfr
043025510015	Septic System Known / Required Inspection NOT Current	SOM2009-19324	SEP74-02976	Conventional	1974	LORRAINE DR	sfr
043025510030	Septic System Known / Required Inspection NOT Current	SOM2009-19325	SEP73-06997	Conventional	1973	LORRAINE DR	sfr
043025510060	Septic System Known / Required Inspection NOT Current	SOM2009-19326	SEP74-02488	Conventional	1974	LORRAINE DR	sfr
043025510075	Septic System Known / Required Inspection NOT Current	SOM2009-19327	SEP76-08425	Conventional	1976	LORRAINE DR	sfr
043025520100	Septic System Known / Required Inspection NOT Current	SOM2009-19328	SEP81-00239	Conventional	1981	VALLEY VIEW DR	sfr
043025520200	Septic System Known / Required Inspection NOT Current	SOM2009-19329	SEP77-02429	Conventional	1977	VALLEY VIEW DR	sfr
043025520300	Septic System Known / Required Inspection NOT Current	SOM2009-19331	SEP80-00217	Conventional	1980	VALLEY VIEW DR	sfr
043025520400	Septic System Known / Required Inspection NOT Current	SOM2009-19332	SEP75-00475	Conventional	1975	VALLEY VIEW DR	sfr
043025520600	Septic System Known / Required Inspection NOT Current	SOM2009-19333	SEP75-01475	Conventional	1975	VALLEY VIEW DR	sfr
043025520700	Septic System Known / Required Inspection NOT Current	SOM2009-19334	SEP75-08790	Conventional	1975	VALLEY VIEW DR	sfr
043025520800	Septic System Known / Required Inspection NOT Current	SOM2009-19335	SEP77-02240	Conventional	1977	VALLEY VIEW DR	sfr
043025520900	Septic System Known / Required Inspection NOT Current	SOM2009-19336	SEP77-12240	Conventional	1977	LOMA VISTA RD	sfr
043025521000	Septic System Known / Required Inspection NOT Current	SOM2009-19337	SEP76-03344	Conventional	1976	LOMA VISTA RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025521100	Septic System Known / Required Inspection NOT Current	SOM2009-19338	SEP77-22240	Conventional	1977	LOMA VISTA RD	sfr
043025521200	Septic System Known / Required Inspection NOT Current	SOM2009-19339	SEP77-32240	Conventional	1977	LOMA VISTA RD	sfr
043025521300	Septic System Known / Required Inspection NOT Current	SOM2009-19340	SEP79-08271	Conventional	1979	LOMA VISTA RD	sfr
043025521400	Septic System Known / Required Inspection NOT Current	SOM2009-19341	SEP75-02052	Conventional	1976	VALLEY VIEW DR	sfr
043025521500	Septic System Known / Required Inspection NOT Current	SOM2009-19342	SEP77-42240	Conventional	1977	COMET CT	sfr
043025521600	Septic System Known / Required Inspection NOT Current	SOM2009-19344	SEP74-03927	Conventional	1975	COMET CT	sfr
043025521700	Septic System Known / Required Inspection NOT Current	SOM2009-19345	SEP77-52240	Conventional	1977	COMET CT	sfr
043025521900	Septic System Known / Required Inspection NOT Current	SOM2009-19346	SEP77-72240	Conventional	1977	COMET CT	sfr
043025522000	Septic System Known / Required Inspection NOT Current	SOM2009-19347	SEP77-82240	Conventional	1977	COMET CT	sfr
043025522100	Septic System Known / Required Inspection NOT Current	SOM2009-19348	SEP77-92240	Conventional	1977	COMET CT	sfr
043025522200	Septic System Known / Required Inspection NOT Current	SOM2009-19349	SEP74-03677	Conventional	1974	COMET CT	sfr
043025522300	Septic System Known / Required Inspection NOT Current	SOM2009-19350	SEP77-2240A	Conventional	1977	COMET CT	sfr
043025522400	Septic System Known / Required Inspection NOT Current	SOM2009-19351	SEP75-08200	Conventional	1975	VALLEY VIEW DR	sfr
043025522500	Septic System Known / Required Inspection NOT Current	SOM2009-19353	SEP76-02052	Conventional	1976	BURNT MOUNTAIN PL	sfr
043025522600	Septic System Known / Required Inspection NOT Current	SOM2008-00057	SEP2002-00006	Sand Line Pressure	2004	BURNT MOUNTAIN PL	sfr
043025522800	Septic System Known / Required Inspection NOT Current	SOM2009-19355	SEP81-00289	Conventional	1981	BURNT MOUNTAIN PL	sfr
043025522900	Septic System Known / Required Inspection NOT Current	SOM2009-19356	SEP77-2240C	Conventional	1977	BURNT MOUNTAIN PL	sfr
043025523000	Septic System Known / Required Inspection NOT Current	SOM2009-19357	SEP75-09226	Conventional	1976	BURNT MOUNTAIN PL	sfr
043025523100	Septic System Known / Required Inspection NOT Current	SOM2009-19359	SEP77-2240D	Conventional	1977	BURNT MOUNTAIN PL	sfr
043025523200	Septic System Known / Required Inspection NOT Current	SOM2009-19360	SEP77-2240E	Conventional	1977	BURNT MOUNTAIN PL	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025523400	Septic System Known / Required Inspection NOT Current	SOM2009-19361	SEP79-08216	Conventional	1980	BURNT MOUNTAIN PL	sfr
043025530000	Septic System Known / Required Inspection NOT Current	SOM2009-19362	SEP76-02312	Conventional	1976	VALLEY VIEW DR	sfr
043025530100	Septic System Known / Required Inspection NOT Current	SOM2009-19363	SEP76-02325	Conventional	1976	VALLEY VIEW DR	sfr
043025530200	Septic System Known / Required Inspection NOT Current	SOM2009-19364	SEP76-12312	Conventional	1976	VALLEY VIEW DR	sfr
043025530400	Septic System Known / Required Inspection NOT Current	SOM2009-19365	SEP74-02562	Conventional	1974	SILBERHORN RD	sfr
043025530500	Septic System Known / Required Inspection NOT Current	SOM2009-19366	SEP75-06774	Conventional	1975	SILBERHORN RD	sfr
043025540010	Septic System Known / Required Inspection NOT Current	SOM2009-19367	SEP89-00141	Pressure	1992	SUMMERSET CT	sfr
043025540020	Septic System Known / Required Inspection NOT Current	SOM2009-19368	SEP90-00100	Pressure	1990	SUMMERSET CT	sfr
043025540030	Septic System Known / Required Inspection NOT Current	SOM2009-19369	SEP91-00281	Sand Line Pressure	1992	SUMMERSET CT	sfr
043025540040	Septic System Known / Required Inspection NOT Current	SOM2009-19370	SEP2004-00520	Pressure	2005	SUMMERSET CT	sfr
043025540050	Septic System Known / Required Inspection NOT Current	SOM2009-19371	SEP90-00314	Sand Line Pressure	1990	SUMMERSET CT	sfr
043025540060	Septic System Known / Required Inspection NOT Current	SOM2009-19373	SEP88-00118	Pressure	1988	SUMMERSET CT	sfr
043025540070	Septic System Known / Required Inspection NOT Current	SOM2009-19374	SEP90-00319	Sand Line Pressure	1990	SUMMERSET CT	sfr
043025540100	Septic System Known / Required Inspection NOT Current	SOM2009-19375	SEP92-00668	Sand Line Pressure	1994	SUMMERSET CT	sfr
043025540110	Septic System Known / Required Inspection NOT Current	SOM2009-19376	SEP90-00269	Sand Line Pressure	1992	SUMMERSET CT	sfr
043025540120	Septic System Known / Required Inspection NOT Current	SOM2009-19378	SEP93-00063	Sand Line Pressure	1994	SUMMERSET CT	sfr
043025550100	Septic System Known / Required Inspection NOT Current	SOM2009-19379	SEP73-02562	Conventional	1974	VALLEY VIEW DR	mfr
043025560010	Septic System Known / Required Inspection NOT Current	SOM2009-19380	SEP2004-00351	Sand Line Pressure	2005	EASTGATE PL	sfr
043025560020	Septic System Known / Required Inspection NOT Current	SOM2009-19381	SEP2000-00497	Sand Line Pressure	2001	EASTGATE PL	sfr
043025560030	Septic System Known / Required Inspection NOT Current	SOM2009-19382	SEP2001-00055	Sand Line Pressure	2001	EASTGATE PL	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025560040	Septic System Known / Required Inspection NOT Current	SOM2009-19383	SEP2002-00002	Sand Line Pressure	2002	EASTGATE PL	sfr
043025560050	Septic System Known / Required Inspection NOT Current	SOM2008-00160	SEP2003-00027	Sand Line Pressure	2003	EASTGATE PL	sfr
043025560060	Septic System Known / Required Inspection NOT Current	SOM2009-19385	SEP2003-00026	Sand Line Pressure	2003	EASTGATE PL	sfr
043025560070	Septic System Known / Required Inspection NOT Current	SOM2009-19386	SEP2003-00023	Sand Line Pressure	2004	EASTGATE PL	sfr
043025560080	Septic System Known / Required Inspection NOT Current	SOM2009-19387	SEP99-00470	Sand Line Pressure	2000	EASTGATE PL	sfr
043025560090	Septic System Known / Required Inspection NOT Current	SOM2009-19388	SEP99-00389	Sand Line Pressure	2000	EASTGATE PL	sfr
043026110200	Septic System Known / Required Inspection NOT Current	SOM2009-19389	SEP98-NP122	Conventional	1970	RONDALE DR	sfr
043026119010	Septic System Known / Required Inspection NOT Current	SOM2009-19390	SEP70-NP067	Conventional	1970	RONDALE DR	sfr
043026119020	Septic System Known / Required Inspection NOT Current	SOM2009-19391	SEP81-00059	Conventional	1981	RONDALE DR	sfr
043026119030	Septic System Known / Required Inspection NOT Current	SOM2009-19392	SEP2005-00199	Conventional	2009	RONDALE DR	vac
043026119040	Septic System Known / Required Inspection NOT Current	SOM2009-19414	SEP2003-00380	Sand Line Pressure	2009	SPRING CRK DR	sfr
043026119050	Septic System Known / Required Inspection NOT Current	SOM2009-19415	SEP99-00339	Sand Line Pressure	2000	SPRING CRK DR	mh
043026140100	Septic System Known / Required Inspection NOT Current	SOM2009-19417	SEP85-NP170	Conventional	1950	RIVERSIDE RD	sfr
043026140125	Septic System Known / Required Inspection NOT Current	SOM2009-19418	SEP78-04054	Conventional	1978	RIVERSIDE RD	mh
043026140175	Septic System Known / Required Inspection NOT Current	SOM2009-19419	SEP76-03574	Conventional	1976	RIVERSIDE RD	sfr
043026140200	Septic System Known / Required Inspection NOT Current	SOM2009-19420	SEP74-02740	Conventional	1974	RIVERSIDE RD	sfr
043026140225	Septic System Known / Required Inspection NOT Current	SOM2009-19421	SEP94-00135	Sand Line Pressure	1994	RIVERSIDE RD	sfr
043026149010	Septic System Known / Required Inspection NOT Current	SOM2009-19422	SEP2008-00030	Sand Line Pressure	2008	RIVERSIDE RD	sfr
043026149020	Septic System Known / Required Inspection NOT Current	SOM2009-19423	SEP77-01563	Conventional	1978	RIVERSIDE RD	sfr
043026149030	Septic System Known / Required Inspection NOT Current	SOM2009-19482	SEP70-NP124	Conventional	1970	RIVERSIDE RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026149040	Septic System Known / Required Inspection NOT Current	SOM2009-19483	SEP2003-00079	Sand Line Pressure	2005	RIVERSIDE RD	sfr
043026410125	Septic System Known / Required Inspection NOT Current	SOM2009-19495	SEP73-07176	Conventional	1973	RIVERSIDE RD	sfr
043026410150	Septic System Known / Required Inspection NOT Current	SOM2009-19497	SEP94-00264	Sand Line Pressure	1996	RIVERSIDE RD	sfr
043026440100	Septic System Known / Required Inspection NOT Current	SOM2009-19499	SEP76-02574	Conventional	1976	DUNGENESS MEADOWS	sfr
043026500000	Septic System Known / Required Inspection NOT Current	SOM2009-19500	SEP2001-00270	Pressure	2001	DUNGENESS MEADOWS	mh
043026500040	Septic System Known / Required Inspection NOT Current	SOM2004 00212	SEP2010-00087	Pressure	2010	DUNGENESS MEADOWS	mh
043026500060	Septic System Known / Required Inspection NOT Current	SOM2009-19502	SEP2009-00227	Sand Line Pressure	2010	DUNGENESS MEADOWS	mh
043026500080	Septic System Known / Required Inspection NOT Current	SOM2009-19503	SEP2003-00193	Sand Line Pressure	2003	DUNGENESS MEADOWS	vac
043026500100	Septic System Known / Required Inspection NOT Current	SOM2009-19507	SEP2003-00193	Sand Line Pressure	2003	DUNGENESS MEADOWS	mh
043026500120	Septic System Known / Required Inspection NOT Current	SOM2009-19511	SEP94-00132	Sand Line Pressure	1994	DUNGENESS MEADOWS	mh
043026500220	Septic System Known / Required Inspection NOT Current	SOM2009-19514	SEP82-10009	Conventional	1982	DUNGENESS MEADOWS	mh
043026500300	Septic System Known / Required Inspection NOT Current	SOM2009-19515	sep2001-np359	Conventional	1968	DUNGENESS MEADOWS	mh
043026500360	Septic System Known / Required Inspection NOT Current	SOM2009-19516	SEP2001-00256	Conventional	2001	DUNGENESS MEADOWS	mh
043026500380	Septic System Known / Required Inspection NOT Current	SOM2009-19517	SEP2001-00257	Conventional	2002	DUNGENESS MEADOWS	mh
043026500400	Septic System Known / Required Inspection NOT Current	SOM2009-19518	SEP91-00493	Conventional	1991	DUNGENESS MEADOWS	mh
043026500420	Septic System Known / Required Inspection NOT Current	SOM2009-19519	SEP88-00094	Conventional	1988	DUNGENESS MEADOWS	mh
043026500460	Septic System Known / Required Inspection NOT Current	SOM2009-19520	SEP2009-00098	Sand Line Pressure	2009	DUNGENESS MEADOWS	mh
043026510000	Septic System Known / Required Inspection NOT Current	SOM2009-19521	SEP68-00194	Conventional	1968	DUNGENESS MEADOWS	mh
043026510040	Septic System Known / Required Inspection NOT Current	SOM2009-19522	SEP71-08337	Conventional	1971	DUNGENESS MEADOWS	mh
043026510060	Septic System Known / Required Inspection NOT Current	SOM2009-19523	SEP2008-NP024	Conventional	1969	DUNGENESS MEADOWS	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026510080	Septic System Known / Required Inspection NOT Current	SOM2009-19524	SEP2008-00184	Pressurized Deep Trench	2010	DUNGENESS MEADOWS	mh
043026510100	Septic System Known / Required Inspection NOT Current	SOM2009-19525	SEP2004-NP318	Conventional	1971	DUNGENESS MEADOWS	mh
043026510120	Septic System Known / Required Inspection NOT Current	SOM2009-19526	SEP2003-NP458	Conventional	1974	DUNGENESS MEADOWS	mh
043026510140	Septic System Known / Required Inspection NOT Current	SOM2009-19527	SEP68-27711	Conventional	1968	DUNGENESS MEADOWS	mh
043026510180	Septic System Known / Required Inspection NOT Current	SOM2009-19528	SEP95-NP050	Conventional	1971	DUNGENESS MEADOWS	mh
043026510220	Septic System Known / Required Inspection NOT Current	SOM2009-19529	SEP2004-00414	Sand Line Pressure	2004	DUNGENESS MEADOWS	mh
043026510240	Septic System Known / Required Inspection NOT Current	SOM2009-19530	SEP68-07740	Conventional	1968	DUNGENESS MEADOWS	mh
043026520000	Septic System Known / Required Inspection NOT Current	SOM2009-19531	SEP71-08932	Conventional	1971	DUNGENESS MEADOWS	sfr
043026520020	Septic System Known / Required Inspection NOT Current	SOM2009-19532	SEP68-17711	Conventional	1968	DUNGENESS MEADOWS	sfr
043026520040	Septic System Known / Required Inspection NOT Current	SOM2009-19533	SEP80-00036	Conventional	1980	DUNGENESS MEADOWS	sfr
043026520060	Septic System Known / Required Inspection NOT Current	SOM2009-19534	SEP69-01245	Conventional	1969	DUNGENESS MEADOWS	sfr
043026520080	Septic System Known / Required Inspection NOT Current	SOM2009-19535	SEP79-00213	Conventional	1980	DUNGENESS MEADOWS	sfr
043026520100	Septic System Known / Required Inspection NOT Current	SOM2009-19536	SEP68-00096	Conventional	1968	DUNGENESS MEADOWS	sfr
043026520120	Septic System Known / Required Inspection NOT Current	SOM2009-19537	SEP73-07382	Conventional	1973	DUNGENESS MEADOWS	sfr
043026520140	Septic System Known / Required Inspection NOT Current	SOM2009-19538	SEP2008-00076	Sand Line Pressure	2008	DUNGENESS MEADOWS	sfr
043026520180	Septic System Known / Required Inspection NOT Current	SOM2009-19539	SEP90-00198	Conventional	1990	CEDAR CRK DR	sfr
043026520200	Septic System Known / Required Inspection NOT Current	SOM2009-19540	SEP79-08343	Conventional	1970	DUNGENESS MEADOWS	sfr
043026520220	Septic System Known / Required Inspection NOT Current	SOM2009-19541	SEP72-09874	Conventional	1972	DUNGENESS MEADOWS	sfr
043026520260	Septic System Known / Required Inspection NOT Current	SOM2009-19543	SEP89-00180	Conventional	1990	DUNGENESS MEADOWS	sfr
043026520280	Septic System Known / Required Inspection NOT Current	SOM2009-19544	SEP79-08273	Conventional	1979	DUNGENESS MEADOWS	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026520320	Septic System Known / Required Inspection NOT Current	SOM2009-19547	SEP69-01660	Conventional	1969	DUNGENESS MEADOWS	sfr
043026520340	Septic System Known / Required Inspection NOT Current	SOM2009-19548	SEP68-72268	Pump to Gravity	1968	DUNGENESS MEADOWS	sfr
043026520400	Septic System Known / Required Inspection NOT Current	SOM2009-19550	SEP72-08991	Conventional	1972	DUNGENESS MEADOWS	sfr
043026520420	Septic System Known / Required Inspection NOT Current	SOM2009-19551	SEP76-03072	Conventional	1976	DUNGENESS MEADOWS	sfr
043026520460	Septic System Known / Required Inspection NOT Current	SOM2009-19552	SEP75-06613	Conventional	1975	DUNGENESS MEADOWS	sfr
043026520480	Septic System Known / Required Inspection NOT Current	SOM2009-19553	SEP95-00456	Conventional	1996	DUNGENESS MEADOWS	sfr
043026520500	Septic System Known / Required Inspection NOT Current	SOM2009-19554	SEP71-09683	Conventional	1971	DUNGENESS MEADOWS	sfr
043026520520	Septic System Known / Required Inspection NOT Current	SOM2009-19556	SEP68-00003	Conventional	1968	DUNGENESS MEADOWS	sfr
043026520540	Septic System Known / Required Inspection NOT Current	SOM2009-19557	SEP68-07798	Conventional	1968	DUNGENESS MEADOWS	sfr
043026520580	Septic System Known / Required Inspection NOT Current	SOM2009-19558	SEP96-00292	Sand Filter Bottomless	1997	DUNGENESS MEADOWS	sfr
043026520600	Septic System Known / Required Inspection NOT Current	SOM2009-19559	SEP2003-00093	Unknown	2004	DUNGENESS MEADOWS	sfr
043026520620	Septic System Known / Required Inspection NOT Current	SOM2009-19560	SEP2007-00144	Sand Line Pressure	2008	DUNGENESS MEADOWS	sfr
043026520640	Septic System Known / Required Inspection NOT Current	SOM2009-19561	SEP2005-00065	Sand Line Pressure	2005	DUNGENESS MEADOWS	sfr
043026520660	Septic System Known / Required Inspection NOT Current	SOM2009-19562	SEP2005-00066	Sand Line Pressure	2005	DUNGENESS MEADOWS	sfr
043026520680	Septic System Known / Required Inspection NOT Current	SOM2009-19564	SEP68-72268	Pump to Gravity	1968	DUNGENESS MEADOWS	sfr
043026520700	Septic System Known / Required Inspection NOT Current	SOM2009-19566	SEP78-05969	Conventional	1979	DUNGENESS MEADOWS	sfr
043026520760	Septic System Known / Required Inspection NOT Current	SOM2009-19567	SEP2002-00277	Pressure	2002	DUNGENESS MEADOWS	sfr
043026520800	Septic System Known / Required Inspection NOT Current	SOM2009-19569	SEP68-72268	Pump to Gravity	1968	DUNGENESS MEADOWS	sfr
043026520820	Septic System Known / Required Inspection NOT Current	SOM2009-19570	SEP2003-00456	Sand Line Pressure	2004	DUNGENESS MEADOWS	sfr
043026520860	Septic System Known / Required Inspection NOT Current	SOM2009-19573	SEP80-10081	Conventional	1980	DUNGENESS MEADOWS	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026520900	Septic System Known / Required Inspection NOT Current	SOM2009-19574	SEP76-02549	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530010	Septic System Known / Required Inspection NOT Current	SOM2009-19575	SEP88-00510	Tank Only	1989	DUNGENESS MEADOWS	sfr
043026530020	Septic System Known / Required Inspection NOT Current	SOM2009-19576	SEP71-09851	Tank Only	1971	DUNGENESS MEADOWS	sfr
043026530030	Septic System Known / Required Inspection NOT Current	SOM2009-19577	SEP73-17414	Tank Only	1973	DUNGENESS MEADOWS	sfr
043026530040	Septic System Known / Required Inspection NOT Current	SOM2009-19578	SEP72-09531	Tank Only	1972	DUNGENESS MEADOWS	sfr
043026530060	Septic System Known / Required Inspection NOT Current	SOM2009-19579	SEP72-09636	Conventional	1972	DUNGENESS MEADOWS	sfr
043026530070	Septic System Known / Required Inspection NOT Current	SOM2009-19580	SEP78-03263	Conventional	1978	UPPER MEADOWS DR	sfr
043026530080	Septic System Known / Required Inspection NOT Current	SOM2009-19581	SEP95-00078	Pressure	1995	UPPER MEADOWS DR	sfr
043026530090	Septic System Known / Required Inspection NOT Current	SOM2009-19582	SEP87-00304	Conventional	1988	DUNGENESS MEADOWS	sfr
043026530100	Septic System Known / Required Inspection NOT Current	SOM2009-19583	SEP75-08805	Conventional	1975	DUNGENESS MEADOWS	sfr
043026530110	Septic System Known / Required Inspection NOT Current	SOM2009-19584	SEP76-02415	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530125	Septic System Known / Required Inspection NOT Current	SOM2009-19585	SEP78-05589	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530130	Septic System Known / Required Inspection NOT Current	SOM2009-19586	SEP73-07490	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530150	Septic System Known / Required Inspection NOT Current	SOM2009-19587	SEP93-00600	Sand Line Pressure	1997	DUNGENESS MEADOWS	sfr
043026530160	Septic System Known / Required Inspection NOT Current	SOM2009-19588	SEP76-03985	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530170	Septic System Known / Required Inspection NOT Current	SOM2009-19589	SEP74-03220	Conventional	1974	DUNGENESS MEADOWS	sfr
043026530180	Septic System Known / Required Inspection NOT Current	SOM2009-19590	SEP82-00161	Conventional	1983	DUNGENESS MEADOWS	sfr
043026530190	Septic System Known / Required Inspection NOT Current	SOM2009-19591	SEP75-08204	Conventional	1975	DUNGENESS MEADOWS	sfr
043026530210	Septic System Known / Required Inspection NOT Current	SOM2009-19592	SEP74-03896	Conventional	1975	DUNGENESS MEADOWS	sfr
043026530220	Septic System Known / Required Inspection NOT Current	SOM2009-19594	SEP76-02316	Conventional	1976	DUNGENESS MEADOWS	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026530240	Septic System Known / Required Inspection NOT Current	SOM2009-19595	SEP91-00399	Sand Line Pressure	1992	DUNGENESS MEADOWS	sfr
043026530260	Septic System Known / Required Inspection NOT Current	SOM2009-19596	SEP73-07524	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530270	Septic System Known / Required Inspection NOT Current	SOM2009-19598	SEP72-19374	Conventional	1972	DUNGENESS MEADOWS	sfr
043026530280	Septic System Known / Required Inspection NOT Current	SOM2009-19599	SEP78-04364	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530300	Septic System Known / Required Inspection NOT Current	SOM2009-19600	SEP73-07141	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530310	Septic System Known / Required Inspection NOT Current	SOM2009-19601	SEP86-00037	Conventional	1986	DUNGENESS MEADOWS	sfr
043026530320	Septic System Known / Required Inspection NOT Current	SOM2009-19602	SEP76-03846	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530330	Septic System Known / Required Inspection NOT Current	SOM2009-19603	SEP73-07412	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530340	Septic System Known / Required Inspection NOT Current	SOM2009-19604	SEP78-05775	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530350	Septic System Known / Required Inspection NOT Current	SOM2009-19608	SEP77-04195	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530360	Septic System Known / Required Inspection NOT Current	SOM2009-19609	SEP78-04521	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530400	Septic System Known / Required Inspection NOT Current	SOM2009-19610	SEP75-08221	Conventional	1975	DUNGENESS MEADOWS	sfr
043026530410	Septic System Known / Required Inspection NOT Current	SOM2009-19611	SEP70-09009	Conventional	1970	DUNGENESS MEADOWS	sfr
043026530420	Septic System Known / Required Inspection NOT Current	SOM2009-19612	SEP73-06904	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530430	Septic System Known / Required Inspection NOT Current	SOM2009-19613	SEP79-08322	Conventional	1979	DUNGENESS MEADOWS	sfr
043026530440	Septic System Known / Required Inspection NOT Current	SOM2009-19614	SEP96-00248	Conventional	1996	DUNGENESS MEADOWS	sfr
043026530460	Septic System Known / Required Inspection NOT Current	SOM2009-19615	SEP74-03409	Conventional	1974	DUNGENESS MEADOWS	sfr
043026530480	Septic System Known / Required Inspection NOT Current	SOM2009-19617	SEP2002-00093	Sand Line Pressure	2002	DUNGENESS MEADOWS	sfr
043026530490	Septic System Known / Required Inspection NOT Current	SOM2009-19618	SEP70-19009	Unknown	1970	DUNGENESS MEADOWS	sfr
043026530520	Septic System Known / Required Inspection NOT Current	SOM2009-19619	SEP90-00520	Pressure	1992	DUNGENESS MEADOWS	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026530530	Septic System Known / Required Inspection NOT Current	SOM2009-19621	SEP89-00544	Conventional	1990	DUNGENESS MEADOWS	sfr
043026530540	Septic System Known / Required Inspection NOT Current	SOM2009-19622	SEP71-18733	Conventional	1971	DUNGENESS MEADOWS	sfr
043026530560	Septic System Known / Required Inspection NOT Current	SOM2009-19623	SEP76-02469	Conventional	1976	MALLARD DR	sfr
043026530570	Septic System Known / Required Inspection NOT Current	SOM2009-19624	SEP89-00399	Conventional	1990	MALLARD DR	sfr
043026530580	Septic System Known / Required Inspection NOT Current	SOM2009-19625	SEP79-03463	Conventional	1979	DUNGENESS MEADOWS	sfr
043026530590	Septic System Known / Required Inspection NOT Current	SOM2008-00067	SEP69-01244	Conventional	1969	DUNGENESS MEADOWS	sfr
043026530600	Septic System Known / Required Inspection NOT Current	SOM2009-19627	SEP76-02693	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530610	Septic System Known / Required Inspection NOT Current	SOM2009-19628	SEP78-03443	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530620	Septic System Known / Required Inspection NOT Current	SOM2009-19629	SEP79-00502	Conventional	1979	DUNGENESS MEADOWS	sfr
043026530630	Septic System Known / Required Inspection NOT Current	SOM2009-19630	SEP2004-00450	Pressure	2006	DUNGENESS MEADOWS	sfr
043026530640	Septic System Known / Required Inspection NOT Current	SOM2008-00018	SEP73-06891	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530650	Septic System Known / Required Inspection NOT Current	SOM2009-19632	SEP77-02959	Conventional	1977	DUNGENESS MEADOWS	sfr
043026530660	Septic System Known / Required Inspection NOT Current	SOM2009-19633	SEP2005-00102	Sand Line Pressure	2005	DUNGENESS MEADOWS	sfr
043026530670	Septic System Known / Required Inspection NOT Current	SOM2009-19634	SEP77-01530	Conventional	1977	DUNGENESS MEADOWS	sfr
043026530680	Septic System Known / Required Inspection NOT Current	SOM2009-19635	SEP76-07242	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530690	Septic System Known / Required Inspection NOT Current	SOM2009-19636	SEP79-00422	Conventional	1980	DUNGENESS MEADOWS	sfr
043026530700	Septic System Known / Required Inspection NOT Current	SOM2009-19637	SEP74-03469	Conventional	1974	DUNGENESS MEADOWS	sfr
043026530740	Septic System Known / Required Inspection NOT Current	SOM2009-19638	SEP2005-NP112	Conventional	1974	DUNGENESS MEADOWS	sfr
043026530750	Septic System Known / Required Inspection NOT Current	SOM2009-19639	SEP97-00275	Pressure	1997	CEDAR CRK DR	sfr
043026530760	Septic System Known / Required Inspection NOT Current	SOM2009-19640	SEP77-02204	Conventional	1977	DUNGENESS MEADOWS	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026530785	Septic System Known / Required Inspection NOT Current	SOM2009-19641	SEP73-07298	Conventional	1973	DUNGENESS MEADOWS	sfr
043026530800	Septic System Known / Required Inspection NOT Current	SOM2009-19642	SEP75-08458	Conventional	1975	DUNGENESS MEADOWS	sfr
043026530810	Septic System Known / Required Inspection NOT Current	SOM2009-19643	SEP87-00111	Conventional	1989	DUNGENESS MEADOWS	sfr
043026530820	Septic System Known / Required Inspection NOT Current	SOM2009-19644	SEP79-08266	Conventional	1979	DUNGENESS MEADOWS	sfr
043026530830	Septic System Known / Required Inspection NOT Current	SOM2009-19645	SEP78-03609	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530840	Septic System Known / Required Inspection NOT Current	SOM2009-19646	SEP79-00393	Conventional	1979	DUNGENESS MEADOWS	sfr
043026530860	Septic System Known / Required Inspection NOT Current	SOM2009-19647	SEP78-03410	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530880	Septic System Known / Required Inspection NOT Current	SOM2009-00235	SEP78-03040	Conventional	1978	DUNGENESS MEADOWS	sfr
043026530890	Septic System Known / Required Inspection NOT Current	SOM2009-19649	SEP75-09783	Conventional	1976	DUNGENESS MEADOWS	sfr
043026530900	Septic System Known / Required Inspection NOT Current	SOM2009-19650	SEP68-32268	Conventional	1968	DUNGENESS MEADOWS	pub_os
043026540000	Septic System Known / Required Inspection NOT Current	SOM2009-19653	SEP79-00626	Conventional	1979	DUNGENESS MEADOWS	sfr
043026540015	Septic System Known / Required Inspection NOT Current	SOM2009-19655	SEP77-01230	Conventional	1977	DUNGENESS MEADOWS	sfr
043026540060	Septic System Known / Required Inspection NOT Current	SOM2009-19656	SEP78-05601	Conventional	1978	DUNGENESS MEADOWS	sfr
043026540090	Septic System Known / Required Inspection NOT Current	SOM2009-19657	SEP79-00907	Conventional	1979	DUNGENESS MEADOWS	sfr
043026540105	Septic System Known / Required Inspection NOT Current	SOM2009-19658	SEP77-01466	Conventional	1978		sfr
043026540120	Septic System Known / Required Inspection NOT Current	SOM2009-19659	SEP2002-00279	Sand Line Pressure	2003	DUNGENESS MEADOWS	sfr
043026540135	Septic System Known / Required Inspection NOT Current	SOM2009-19660	SEP77-04455	Conventional	1977	DUNGENESS MEADOWS	sfr
043026540165	Septic System Known / Required Inspection NOT Current	SOM2009-19662	SEP75-09099	Conventional	1975	DUNGENESS MEADOWS	sfr
043026540195	Septic System Known / Required Inspection NOT Current	SOM2009-00138	SEP70-08522	Conventional	1970	DUNGENESS MEADOWS	sfr
043026540225	Septic System Known / Required Inspection NOT Current	SOM2009-19664	SEP2004-00060	Pressure	2004	DUNGENESS MEADOWS	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026540240	Septic System Known / Required Inspection NOT Current	SOM2009-19665	SEP2009-00124	Sand Line Pressure	2009	DUNGENESS MEADOWS	sfr
043026540255	Septic System Known / Required Inspection NOT Current	SOM2009-19666	SEP89-00610	Conventional	1990	DUNGENESS MEADOWS	sfr
043026540270	Septic System Known / Required Inspection NOT Current	SOM2009-19667	SEP78-03209	Conventional	1977	DUNGENESS MEADOWS	sfr
043026540285	Septic System Known / Required Inspection NOT Current	SOM2009-19668	SEP74-02873	Conventional	1974	DUNGENESS MEADOWS	sfr
043026540300	Septic System Known / Required Inspection NOT Current	SOM2009-19669	SEP78-04215	Conventional	1978	DUNGENESS MEADOWS	sfr
043026540315	Septic System Known / Required Inspection NOT Current	SOM2009-19670	SEP76-03696	Conventional	1976	DUNGENESS MEADOWS	sfr
043026540330	Septic System Known / Required Inspection NOT Current	SOM2009-19672	SEP79-00274	Conventional	1980	DUNGENESS MEADOWS	sfr
043026540345	Septic System Known / Required Inspection NOT Current	SOM2009-19673	SEP77-01779	Conventional	1978	DUNGENESS MEADOWS	sfr
043026540375	Septic System Known / Required Inspection NOT Current	SOM2009-19674	SEP77-21466	Conventional	1977	DUNGENESS MEADOWS	sfr
043026540390	Septic System Known / Required Inspection NOT Current	SOM2009-19676	SEP78-04144	Conventional	1978	DUNGENESS MEADOWS	sfr
043026540405	Septic System Known / Required Inspection NOT Current	SOM2009-19679	SEP78-03413	Conventional	1978	DUNGENESS MEADOWS	sfr
043026540435	Septic System Known / Required Inspection NOT Current	SOM2009-19680	SEP90-00749	Pressure	1991	DUNGENESS MEADOWS	sfr
043026540480	Septic System Known / Required Inspection NOT Current	SOM2009-19682	SEP2006-NP137	Conventional	1974	DUNGENESS MEADOWS	mh
043026540495	Septic System Known / Required Inspection NOT Current	SOM2009-19685	SEP76-91376	Conventional	1976	DUNGENESS MEADOWS	mh
043026540525	Septic System Known / Required Inspection NOT Current	SOM2009-19688	SEP2011-00091	Sand Line Pressure	2011	DUNGENESS MEADOWS	mh
043026540585	Septic System Known / Required Inspection NOT Current	SOM2009-19689	SEP71-06471	Conventional	1971	DUNGENESS MEADOWS	mh
043026540630	Septic System Known / Required Inspection NOT Current	SOM2009-19690	SEP75-02015	Conventional	1976	DUNGENESS MEADOWS	mh
043026540645	Septic System Known / Required Inspection NOT Current	SOM2009-19691	SEP69-01662	Conventional	1969	DUNGENESS MEADOWS	mh
043026540660	Septic System Known / Required Inspection NOT Current	SOM2009-19692	SEP71-08074	Conventional	1971	DUNGENESS MEADOWS	mh
043026540675	Septic System Known / Required Inspection NOT Current	SOM2009-19693	SEP72-19608	Conventional	1972	DUNGENESS MEADOWS	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026540690	Septic System Known / Required Inspection NOT Current	SOM2009-19694	SEP96-00095	Pressure	1996	DUNGENESS MEADOWS	mh
043026540720	Septic System Known / Required Inspection NOT Current	SOM2009-19698	SEP73-27414	Conventional	1973	DUNGENESS MEADOWS	mh
043026540735	Septic System Known / Required Inspection NOT Current	SOM2009-19699	SEP78-03658	Conventional	1978	DUNGENESS MEADOWS	mh
043026540775	Septic System Known / Required Inspection NOT Current	SOM2009-19700	SEP83-52483	Unknown	1983	DUNGENESS MEADOWS	mh
043026550100	Septic System Known / Required Inspection NOT Current	SOM2004-00017	SEP76-03808	Conventional	1977	DUNGENESS MEADOWS	sfr
043026550200	Septic System Known / Required Inspection NOT Current	SOM2009-20083	SEP76-03809	Conventional	1977	DUNGENESS MEADOWS	sfr
043036110050	Septic System Known / Required Inspection NOT Current	SOM2009-20084	SEP2002-00212	Biofilter	2002	HAPPY VALLEY RD	sfr
043036110075	Septic System Known / Required Inspection NOT Current	SOM2009-20085	SEP2001-00393	Mound	2002	HAPPY VALLEY RD	mh
043036110125	Septic System Known / Required Inspection NOT Current	SOM2007-00032	SEP88-00374	Mound	1989	HAPPY VALLEY RD	sfr
043036119030	Septic System Known / Required Inspection NOT Current	SOM2009-20087	SEP2005-00335	Sand Line Pressure	2005	HAPPY VALLEY RD	sfr
043036119040	Septic System Known / Required Inspection NOT Current	SOM2009-20088	SEP81-00267	Pump to Gravity	1982	HAPPY VALLEY RD	sfr
043036120050	Septic System Known / Required Inspection NOT Current	SOM2009-20089	SEP90-00287	Conventional	1992	HAPPY VALLEY RD	sfr
043036129010	Septic System Known / Required Inspection NOT Current	SOM2009-20090	SEP90-00235	Sand Line Pressure	1990	WAGNER LN	mh
043036129020	Septic System Known / Required Inspection NOT Current	SOM2009-20091	SEP81-00326	Conventional	1981	WAGNER LN	mh
043036129030	Septic System Known / Required Inspection NOT Current	SOM2009-20092	SEP82-00020	Conventional	1982	WAGNER LN	sfr
043036129040	Septic System Known / Required Inspection NOT Current	SOM2009-20093	SEP92-00063	Sand Line Pressure	1992	MICHELLE LN	sfr
043036129050	Septic System Known / Required Inspection NOT Current	SOM2009-20095	SEP91-00298	Sand Line Pressure	1992	MICHELLE LN	sfr
043036129060	Septic System Known / Required Inspection NOT Current	SOM2009-20096	SEP94-00142	Sand Line Pressure	1994	MICHELLE LN	sfr
043036129080	Septic System Known / Required Inspection NOT Current	SOM2009-20097	SEP80-00059	Conventional	1980	WAGNER LN	sfr
043036129090	Septic System Known / Required Inspection NOT Current	SOM2009-20098	SEP2000-00417	Sand Line Pressure	2003	HAPPY VALLEY RD	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043036129120	Septic System Known / Required Inspection NOT Current	SOM2009-20099	SEP90-00179	Conventional	1991	WAGNER LN	sfr
043036129130	Septic System Known / Required Inspection NOT Current	SOM2011-00271	SEP89-00577	Pressure	1990	WAGNER LN	mh
043036129150	Septic System Known / Required Inspection NOT Current	SOM2009-12663	SEP89-00351	Pressure	1989	WAGNER LN	mh
033016219070	Septic System Suspected / No Documentation	SOM2009-12680	UNKNOWN	Unknown	0	PORT WILLIAMS ROAD	vac
033017210220	Septic System Suspected / No Documentation	SOM2009-12690	UNKNOWN	Unknown	0	PORT WILLIAMS RD	vac
033017230030	Septic System Suspected / No Documentation	SOM2009-12691	UNKNOWN	Unknown	0	PORT WILLIAMS RD	sfr
033017320020	Septic System Suspected / No Documentation	SOM2009-12692	UNKNOWN	Unknown	0	PORT WILLIAMS RD	sfr
033017320030	Septic System Suspected / No Documentation	SOM2011-00016	UNKNOWN	Unknown	0	PORT WILLIAMS RD	sfr
033017329000	Septic System Suspected / No Documentation	SOM2009-12758	UNKNOWN	Unknown	0	PORT WILLIAMS RD	sfr
033017500000	Septic System Suspected / No Documentation	SOM2009-12803	UNKNOWN	Unknown	0	SEQUIM AVE	mfr
033018119030	Septic System Suspected / No Documentation	SOM2009-12810	UNKNOWN	Unknown	0	SANFORD LN	sfr
033018149160	Septic System Suspected / No Documentation	SOM2009-12841	UNKNOWN	Unknown	0	CROWNVIEW LN	sfr
033018219050	Septic System Suspected / No Documentation	SOM2009-12851	UNKNOWN	Unknown	0	EVANS RD	sfr
033018230110	Septic System Suspected / No Documentation	SOM2009-12880	UNKNOWN	Unknown	0	HOUSE RD	mh
033018230240	Septic System Suspected / No Documentation	SOM2009-12923	UNKNOWN	Unknown	0	OLD OLYMPIC HWY	sfr
033018249080	Septic System Suspected / No Documentation	SOM2011-00345	UNKNOWN	Unknown	0	EVANS RD	sfr
033018420050	Septic System Suspected / No Documentation	SOM2009-13072	UNKNOWN	Unknown	0	OLD OLYMPIC HWY	sfr
033018610010	Septic System Suspected / No Documentation	SOM2012-00112	UNKNOWN	Unknown	0		mfr
033018610420	Septic System Suspected / No Documentation	SOM2012-00113	UNKNOWN	Unknown	0	CROWNVIEW LN	sfr
033019230000	Septic System Suspected / No Documentation	SOM2012-00114	UNKNOWN	Unknown	0	NINTH AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019230003	Septic System Suspected / No Documentation	SOM2012-00115	UNKNOWN	Unknown	0	9TH	sfr
033019320025	Septic System Suspected / No Documentation	SOM2012-00116	UNKNOWN	Unknown	0	SEVENTH AVE	sfr
033019320050	Septic System Suspected / No Documentation	SOM2009-13201	UNKNOWN	Unknown	0	SEVENTH AVE	sfr
033019330000	Septic System Suspected / No Documentation	SOM2009-13228	UNKNOWN	Unknown	0	NINTH AVE	sfr
033020220035	Septic System Suspected / No Documentation	SOM2009-13295	UNKNOWN	Unknown	0	SEQUIM AVE	sfr
033020440180	Septic System Suspected / No Documentation	SOM2009-13304	UNKNOWN	Unknown	0	FOXFIRE LN	mh
033021130010	Septic System Suspected / No Documentation	SOM2009-13320	UNKNOWN	Unknown	0	WASHINGTON HARBOR RD	sfr
033021140195	Septic System Suspected / No Documentation	SOM2009-13322	UNKNOWN	Unknown	0	WASHINGTON HARBOR RD	sfr
033021320060	Septic System Suspected / No Documentation	SOM2009-13323	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
033021320100	Septic System Suspected / No Documentation	SOM2009-13324	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
033021329010	Septic System Suspected / No Documentation	SOM2009-13325	UNKNOWN	Unknown	0	OLD COYOTE WY	sfr
033021329020	Septic System Suspected / No Documentation	SOM2009-13328	UNKNOWN	Unknown	0	RHODEFER RD	sfr
033021329060	Septic System Suspected / No Documentation	SOM2009-13334	UNKNOWN	Unknown	0	OLD COYOTE WY	mh
033021339020	Septic System Suspected / No Documentation	SOM2009-13349	UNKNOWN	Unknown	0	RHODEFER RD	sfr
033021420110	Septic System Suspected / No Documentation	SOM2009-13501	UNKNOWN	Unknown	0	WASHINGTON HARBOR RD	sfr
033021440060	Septic System Suspected / No Documentation	SOM2009-13504	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
033022330095	Septic System Suspected / No Documentation	SOM2009-13514	UNKNOWN	Unknown	0	KEELER RD	sfr
033022330160	Septic System Suspected / No Documentation	SOM2009-13651	UNKNOWN	Unknown	0	KEELER RD	sfr
033022339070	Septic System Suspected / No Documentation	SOM2009-13696	UNKNOWN	Unknown	0	SEQUIM BAY RD	cml
033027219070	Septic System Suspected / No Documentation	SOM2009-13702	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027500061	Septic System Suspected / No Documentation	SOM2009-13723	UNKNOWN	Unknown	0	FORREST RD	sfr
033027510206	Septic System Suspected / No Documentation	SOM2009-13736	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
033028110250	Septic System Suspected / No Documentation	SOM2009-13751	UNKNOWN	Unknown	0	LOFGRIN RD	sfr
033028220030	Septic System Suspected / No Documentation	SOM2012-00117	UNKNOWN	Unknown	0	WASHINGTON ST	sfr_ag
033028440425	Septic System Suspected / No Documentation	SOM2009-13800	UNKNOWN	Unknown	0	HAPPY VALLEY RD	mh
033029130240	Septic System Suspected / No Documentation	SOM2012-00123	UNKNOWN	Unknown	0	CLARA CREST LN	sfr
033029210100	Septic System Suspected / No Documentation	SOM2009-13950	UNKNOWN	Unknown	0	BROWNFIELD RD	sfr_ag
033029330000	Septic System Suspected / No Documentation	SOM2009-13957	UNKNOWN	Unknown	0	HAPPY VALLEY RD	sfr_tmbr
033030220100	Septic System Suspected / No Documentation	SOM2009-13972	UNKNOWN	Unknown	0	SILBERHORN RD	sfr
033030220195	Septic System Suspected / No Documentation	SOM2009-14004	UNKNOWN	Unknown	0	SILBERHORN RD	mh
033030229160	Septic System Suspected / No Documentation	SOM2009-14007	UNKNOWN	Unknown	0	KETTY LN	mh
033030410150	Septic System Suspected / No Documentation	SOM2009-14010	UNKNOWN	Unknown	0	THIRD AVE	sfr
033030419030	Septic System Suspected / No Documentation	SOM2009-14014	UNKNOWN	Unknown	0	STEPHENS PL	sfr
033030420090	Septic System Suspected / No Documentation	SOM2009-14016	UNKNOWN	Unknown	0	THIRD AVE	sfr
033030420110	Septic System Suspected / No Documentation	SOM2009-14018	UNKNOWN	Unknown	0	RESERVOIR RD	sfr
033030420130	Septic System Suspected / No Documentation	SOM2009-14033	UNKNOWN	Unknown	0	THIRD AVE	mh
033030440060	Septic System Suspected / No Documentation	SOM2009-14035	UNKNOWN	Unknown	0	THIRD AVE	sfr
033030440080	Septic System Suspected / No Documentation	SOM2009-14122	UNKNOWN	Unknown	0	THIRD AVE	
033031500320	Septic System Suspected / No Documentation	SOM2009-14143	UNKNOWN	Unknown	0	HAPPY VALLEY RD	mh
033031501600	Septic System Suspected / No Documentation	SOM2009-14229	UNKNOWN	Unknown	0	BELLWAY RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032230060	Septic System Suspected / No Documentation	SOM2009-14322	UNKNOWN	Unknown	0	BELL CREEK LN	vac
033033110300	Septic System Suspected / No Documentation	SOM2009-14324	UNKNOWN	Unknown	0	HAPPY VALLEY RD	sfr
033033119000	Septic System Suspected / No Documentation	SOM2009-14333	UNKNOWN	Unknown	0	HAPPY VALLEY RD	sfr
033033130140	Septic System Suspected / No Documentation	SOM2009-14448	UNKNOWN	Unknown	0	HAPPY VALLEY RD	sfr
033035239010	Septic System Suspected / No Documentation	SOM2009-14451	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
033035239040	Septic System Suspected / No Documentation	SOM2009-16914	UNKNOWN	Unknown	0	SEQUIM BAY RD	sfr
043012430275	Septic System Suspected / No Documentation	SOM2009-16918	UNKNOWN	Unknown	0	ROBBINS RD	mh
043012430375	Septic System Suspected / No Documentation	SOM2009-16971	UNKNOWN	Unknown	0	ROBBINS RD	sfr
043013110250	Septic System Suspected / No Documentation	SOM2009-17019	UNKNOWN	Unknown	0	OLD OLYMPIC HWY	sfr
043013140150	Septic System Suspected / No Documentation	SOM2009-17191	UNKNOWN	Unknown	0	OLD OLYMPIC HWY	mh
043013430400	Septic System Suspected / No Documentation	SOM2009-17229	UNKNOWN	Unknown	0	HENDRICKSON RD	mh
043013500050	Septic System Suspected / No Documentation	SOM2009-18692	UNKNOWN	Unknown	0	SCOTT DR	sfr
043023110125	Septic System Suspected / No Documentation	SOM2009-18857	UNKNOWN	Unknown	0	HENDRICKSON RD	sfr
043023449085	Septic System Suspected / No Documentation	SOM2009-18899	UNKNOWN	Unknown	0	TURNSTONE LN	mh
043024310050	Septic System Suspected / No Documentation	SOM2009-18945	UNKNOWN	Unknown	0	WASHINGTON ST	pub
043024310175	Septic System Suspected / No Documentation	SOM2009-18949	UNKNOWN	Unknown	0	RIVER RD	cml
043024439120	Septic System Suspected / No Documentation	SOM2009-18986	UNKNOWN	Unknown	0	RIVER RD	sfr
043024439140	Septic System Suspected / No Documentation	SOM2009-18987	UNKNOWN	Unknown	0	RIVER RD	sfr
043024440020	Septic System Suspected / No Documentation	SOM2009-18992	UNKNOWN	Unknown	0	NINTH AVE	sfr
043024440050	Septic System Suspected / No Documentation	SOM2009-18993	UNKNOWN	Unknown	0	NINTH AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024440075	Septic System Suspected / No Documentation	SOM2009-18994	UNKNOWN	Unknown	0	NINTH AVE	sfr
043024510150	Septic System Suspected / No Documentation	SOM2009-19024	UNKNOWN	Unknown	0	ALDER CT	
043025120000	Septic System Suspected / No Documentation	SOM2009-19054	UNKNOWN	Unknown	0	EL RIO LN	sfr
043025130015	Septic System Suspected / No Documentation	SOM2009-19066	UNKNOWN	Unknown	0	RIVER RD	sfr
043025130175	Septic System Suspected / No Documentation	SOM2009-19068	UNKNOWN	Unknown	0	RIVER RD	sfr
043025219120	Septic System Suspected / No Documentation	SOM2009-19134	UNKNOWN	Unknown	0	RIVER RD	sfr
043025220175	Septic System Suspected / No Documentation	SOM2009-19142	UNKNOWN	Unknown	0	SILBERHORN RD	sfr
043025220275	Septic System Suspected / No Documentation	SOM2009-19145	UNKNOWN	Unknown	0	SILBERHORN RD	sfr
043025229170	Septic System Suspected / No Documentation	SOM2009-19160	UNKNOWN	Unknown	0	RONDALE DR	sfr
043025230010	Septic System Suspected / No Documentation	SOM2012-00072	UNKNOWN	Unknown	0	SILBERHORN RD	mh
043025239040	Septic System Suspected / No Documentation	SOM2009-19174	UNKNOWN	Unknown	0	RIVERDALE LN	vac
043025239090	Septic System Suspected / No Documentation	SOM2009-19179	UNKNOWN	Unknown	0	RIVERSIDE RD	sfr
043025249020	Septic System Suspected / No Documentation	SOM2009-19197	UNKNOWN	Unknown	0	SILBERHORN RD	sfr
043025319010	Septic System Suspected / No Documentation	SOM2009-19227	UNKNOWN	Unknown	0	RIVER RD	sfr
043025320125	Septic System Suspected / No Documentation	SOM2009-19240	UNKNOWN	Unknown	0	SECOR RD	sfr
043025329020	Septic System Suspected / No Documentation	SOM2009-19247	UNKNOWN	Unknown	0		sfr
043025340050	Septic System Suspected / No Documentation	SOM2009-19267	UNKNOWN	Unknown	0	SECOR RD	sfr
043025340125	Septic System Suspected / No Documentation	SOM2009-19268	UNKNOWN	Unknown	0	SECOR RD	sfr
043025340250	Septic System Suspected / No Documentation	SOM2009-19271	UNKNOWN	Unknown	0	RIVER RD	sfr
043025340325	Septic System Suspected / No Documentation	SOM2009-19272	UNKNOWN	Unknown	0	RIVER RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025349050	Septic System Suspected / No Documentation	SOM2009-19277	UNKNOWN	Unknown	0	RIVER RD	sfr
043025510045	Septic System Suspected / No Documentation	SOM2009-19323	UNKNOWN	Unknown	0	LORRAINE DR	sfr
043026440125	Septic System Suspected / No Documentation	SOM2009-19496	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026500320	Septic System Suspected / No Documentation	SOM2009-19512	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	mh
043026500340	Septic System Suspected / No Documentation	SOM2009-19513	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	mh
043026520300	Septic System Suspected / No Documentation	SOM2009-19542	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026520840	Septic System Suspected / No Documentation	SOM2009-19568	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026520920	Septic System Suspected / No Documentation	SOM2009-19571	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026530390	Septic System Suspected / No Documentation	SOM2009-19607	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026540450	Septic System Suspected / No Documentation	SOM2009-19677	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	sfr
043026540615	Septic System Suspected / No Documentation	SOM2009-19687	UNKNOWN	Unknown	0	DUNGENESS MEADOWS	mh
043036110000	Septic System Suspected / No Documentation	SOM2009-20081	UNKNOWN	Unknown	0	HAPPY VALLEY RD	sfr
043036129140	Septic System Suspected / No Documentation	SOM2012-00005	UNKNOWN	Unknown	0	WAGNER LN	vac
033017210210	Sewer				0	PORT WILLIAMS RD	pub
033017520130	Sewer				0	VALLEY FARM CT	sfr
033017520140	Sewer				0	VALLEY FARM CT	sfr
033017520150	Sewer				0	VALLEY FARM CT	sfr
033017540090	Sewer				0	ROYAL LP	sfr
033017540110	Sewer				0	ROYAL LP	sfr
033017540120	Sewer				0	ROYAL LP	sfr
033017540130	Sewer				0	ROYAL LP	sfr
033017540150	Sewer				0	ROYAL LP	
033017540220	Sewer				0	ROYAL LP	sfr
033018100000	Sewer				0		pub
033018149320	Sewer				0	OLD OLYMPIC HWY	sfr
033018310000	Sewer				0	EVERGREEN FARM WY	mfr
033018330010	Sewer				0	HENDRICKSON RD	ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018419260	Sewer				0	OLD OLYMPIC HWY	cml
033018420070	Sewer				0	OLD OLYMPIC HWY	pub_q
033018430110	Sewer				0	FIFTH AVE	cml
033018440050	Sewer	SOM2009-12940	SEP89-00197	Pressure	1990	SEQUIM AVE	sfr
033018590000	Sewer				0	LITTLEJOHN WY	mfr
033018620000	Sewer				0	FIFTH AVE	cml
033018620100	Sewer				0	HENDRICKSON RD	mfr
033018620200	Sewer				0	HENDRICKSON RD	mfr
033018620300	Sewer				0	HENDRICKSON RD	mfr
033018620400	Sewer				0	FIFTH AVE	cml
033018620500	Sewer				0	FIFTH AVE	cml
033018620600	Sewer				0	FIFTH AVE	cml
033018620610	Sewer				0	FIFTH AVE	cml
033018620620	Sewer				0	FIFTH AVE	cml
033018620630	Sewer				0	FIFTH AVE	cml
033018620640	Sewer				0	FIFTH AVE	cml
033018620670	Sewer				0	FIFTH AVE	cml
033018620680	Sewer				0	FIFTH AVE	cml
033018620690	Sewer				0	FIFTH AVE	cml
033018640000	Sewer				0	OXFORD WY	mfr
033018660010	Sewer				0	SPENCER FARM PL	sfr
033018660020	Sewer				0	SPENCER FARM PL	sfr
033018660030	Sewer				0	SPENCER FARM CT	sfr
033018660040	Sewer				0	SPENCER FARM PL	sfr
033018660050	Sewer				0	SPENCER FARM PL	sfr
033018660060	Sewer				0	SPENCER FARM	sfr
033018660070	Sewer				0	SPENCER FARM CT	sfr
033018660080	Sewer				0	SPENCER FARM PL	sfr
033018660090	Sewer				0	SPENCER FARM PL	sfr
033018660100	Sewer				0	SPENCER FARM PL	sfr
033018660110	Sewer				0	SPENCER FARM CT	sfr
033018660120	Sewer				0	SPENCER FARM PL	sfr
033018660130	Sewer				0	SPENCER FARM PL	sfr
033018660140	Sewer				0	SPENCER FARM PL	sfr
033018660150	Sewer				0	SPENCER FARM PL	sfr
033018660160	Sewer				0	SPENCER FARM PL	sfr
033018660170	Sewer				0	SPENCER FARM PL	sfr
033018660180	Sewer				0	HENDRICKSON RD	sfr
033018690000	Sewer				0	STRATFORD WY	mfr
033018760000	Sewer				0	PORTSIDE WAY	mhp
033018780000	Sewer				0	WOOLSEY CT	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018780005	Sewer				0		rd
033018790010	Sewer				0	NEW MEADOW LP	sfr
033018790020	Sewer				0	NEW MEADOW LP	sfr
033018790030	Sewer				0	NEW MEADOW LP	sfr
033018790040	Sewer				0	NEW MEADOW LP	sfr
033018790050	Sewer				0	NEW MEADOW LP	sfr
033018790060	Sewer				0	NEW MEADOW LP	sfr
033018790070	Sewer				0	NEW MEADOW LP	sfr
033018790080	Sewer				0	NEW MEADOW LP	sfr
033018790090	Sewer				0	NEW MEADOW LP	sfr
033018790100	Sewer				0	NEW MEADOW LP	sfr
033018790110	Sewer				0	NEW MEADOW LP	sfr
033018790120	Sewer				0	NEW MEADOW LP	sfr
033018790130	Sewer				0	NEW MEADOW LP	sfr
033018790140	Sewer				0	NEW MEADOW LP	sfr
033018790150	Sewer				0	NEW MEADOW LP	sfr
033018790160	Sewer				0	NEW MEADOW LP	sfr
033018790170	Sewer				0	NEW MEADOW LP	sfr
033018790180	Sewer				0	NEW MEADOW LP	sfr
033018790190	Sewer				0	LINDSAY LN	sfr
033018790230	Sewer				0	LINDSAY LN	sfr
033018790240	Sewer				0	LINDSAY LN	sfr
033018790250	Sewer				0	LINDSAY LN	sfr
033018790260	Sewer				0	LINDSAY LN	sfr
033018790270	Sewer				0	LINDSAY LN	sfr
033018790280	Sewer				0	NEW MEADOW LP	sfr
033018790330	Sewer				0	LINDSAY LN	sfr
033018790340	Sewer				0	LINDSAY LN	sfr
033018790350	Sewer				0	LINDSAY LN	sfr
033018790370	Sewer				0	LINDSAY LN	sfr
033018790380	Sewer				0	NEW MEADOW LP	sfr
033018790390	Sewer				0	NEW MEADOW LP	sfr
033018790400	Sewer				0	NEW MEADOW LP	sfr
033018790420	Sewer				0	LINDSAY LN	sfr
033018790430	Sewer				0	OLD OLYMPIC HWY	
033018810005	Sewer				0		pub_os
033018810020	Sewer				0	CHOICE LP	sfr
033018810040	Sewer				0	CHOICE LP	sfr
033018810050	Sewer				0	CHOICE LP	sfr
033018810060	Sewer				0	CHOICE LP	sfr
033018810150	Sewer				0	CHOICE LP	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018810170	Sewer				0	CHOICE LP	sfr
033018810180	Sewer				0	CHOICE LP	sfr
033018810190	Sewer				0	CHOICE LP	sfr
033018810200	Sewer				0	CHOICE LP	sfr
033018810220	Sewer				0	CHOICE LP	sfr
033018810270	Sewer				0	CHOICE LP	sfr
033018810280	Sewer				0	CHOICE LP	sfr
033018810290	Sewer				0	CHOICE LP	sfr
033018810300	Sewer				0	CHOICE LP	sfr
033018810310	Sewer				0	CHOICE LP	sfr
033018810320	Sewer				0	CHOICE LP	sfr
033018810330	Sewer				0	CHOICE LP	sfr
033018810360	Sewer				0	CHOICE LP	sfr
033018810370	Sewer				0	CHOICE LP	sfr
033018810380	Sewer				0	CHOICE LP	sfr
033018810390	Sewer				0	NESTING PL	sfr
033018810400	Sewer				0	NESTING PL	sfr
033018810420	Sewer				0	NESTING PL	sfr
033018810430	Sewer				0	NESTING PL	sfr
033018810440	Sewer				0	NESTING PL	sfr
033018810460	Sewer				0	NESTING PL	sfr
033018810470	Sewer				0	CHOICE LP	sfr
033018810480	Sewer				0	PERCH DR	sfr
033018810490	Sewer				0	PERCH DR	sfr
033018810510	Sewer				0	PERCH DR	sfr
033018810520	Sewer				0	PERCH DR	sfr
033018810540	Sewer				0	PERCH DR	sfr
033018810560	Sewer				0	CHOICE LP	sfr
033018820030	Sewer				0	TALUS DR	sfr
033018820040	Sewer				0	TALUS DR	sfr
033018820050	Sewer				0	TALUS DR	sfr
033018820070	Sewer				0	TALUS DR	sfr
033018820080	Sewer				0	TALUS DR	sfr
033018820090	Sewer				0	TALUS DR	sfr
033018820100	Sewer				0	TALUS DR	sfr
033018820110	Sewer				0	TALUS DR	sfr
033018820120	Sewer				0	MARIOTT AVE	sfr
033018820130	Sewer				0	MARIOTT AVE	sfr
033018820140	Sewer				0	MARIOTT AVE	sfr
033018820150	Sewer				0		pub_os
033019110005	Sewer				0	HENDRICKSON	pub

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019110050	Sewer				0	SEQUIM AVE	pub
033019110080	Sewer				0	FIR ST	pub
033019110090	Sewer				0	FIR ST	pub
033019110100	Sewer				0	SEQUIM AVE	pub
033019120020	Sewer				0	FIFTH AVE	sfr
033019120050	Sewer				0	FIFTH AVE	pub
033019129025	Sewer				0	HENDRICKSON RD	cml
033019129035	Sewer				0	HENDRICKSON RD	cml
033019129050	Sewer				0	FIR	pub
033019140000	Sewer				0	SPRUCE	cml
033019140010	Sewer				0	SEQUIM AVE	sfr
033019140020	Sewer				0	ALDER ST	res_u
033019140030	Sewer				0	SEQUIM AVE	sfr
033019140040	Sewer				0	ALDER ST	pub_q
033019140050	Sewer				0	ALDER ST	cml
033019140100	Sewer				0	SEQUIM AVE	cml
033019210070	Sewer				0	FIFTH AVE	pub_q
033019219050	Sewer				0	FIFTH AVE	cml
033019219080	Sewer				0	FIFTH AVE	cml
033019219140	Sewer				0	FIFTH AVE	cml
033019219220	Sewer				0	FIR ST	cml
033019219230	Sewer				0	FIR ST	cml
033019220010	Sewer				0	HENDRICKSON RD	mhp
033019220020	Sewer				0	HERITAGE LP	mh
033019229000	Sewer				0	FIR ST	mh
033019229010	Sewer				0	FIR ST	mh
033019229020	Sewer				0	FIR ST	mh
033019229030	Sewer				0	FIR ST	mh
033019229040	Sewer				0	FIR ST	mh
033019229050	Sewer				0	FIR ST	mh
033019229060	Sewer				0	FIR ST	mh
033019230040	Sewer				0	WASHINGTON ST	ldg
033019230050	Sewer				0	BRACKETT RD	cml
033019230080	Sewer				0	WASHINGTON ST	ldg
033019239020	Sewer				0	BRACKETT RD	ldg
033019239040	Sewer				0	WASHINGTON ST	cml
033019239060	Sewer				0	SEVENTH AVE	cml
033019239070	Sewer				0	SEVENTH AVE	cml
033019239080	Sewer				0	TOMMY COURT	mh
033019239090	Sewer				0	TOMMY COURT	mh
033019239100	Sewer				0	TOMMY COURT	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019239110	Sewer				0	TOMMY COURT	mh
033019239120	Sewer				0	TOMMY COURT	mh
033019239130	Sewer				0	TOMMY COURT	mh
033019239140	Sewer				0	TOMMY COURT	mh
033019239150	Sewer				0	TOMMY COURT	mh
033019240000	Sewer				0	SEVENTH AVE	mhp
033019240001	Sewer				0	SPRUCE ST	mhp
033019240002	Sewer				0	N 5TH AVE	mhp
033019240010	Sewer				0	WASHINGTON ST	cml
033019240020	Sewer				0	WASHINGTON ST	cml
033019240070	Sewer				0	FIFTH AVE	sfr
033019249010	Sewer				0	5TH AVE	mhp
033019310040	Sewer				0	PRAIRIE ST	res_u
033019310090	Sewer				0	5TH AVE	mfr
033019310120	Sewer				0	FIFTH AVE	sfr
033019310150	Sewer				0	WASHINGTON ST	cml
033019319010	Sewer				0	WASHINGTON ST	cml
033019319020	Sewer				0	WASHINGTON ST	cml
033019319030	Sewer				0	WASHINGTON ST	cml
033019319040	Sewer				0	WASHINGTON ST	cml
033019319050	Sewer				0	WASHINGTON ST	cml
033019319060	Sewer				0	WASHINGTON ST	cml
033019319070	Sewer				0	WASHINGTON ST	cml
033019319080	Sewer				0	FIFTH AVE	cml
033019319090	Sewer				0	FIFTH AVE	sfr
033019319100	Sewer				0	FIFTH AVE	sfr
033019319120	Sewer				0	FIFTH AVE	sfr
033019319130	Sewer				0	FIFTH AVE	sfr
033019319140	Sewer				0	FIFTH AVE	mfr
033019320000	Sewer				0	WASHINGTON ST	cml
033019320009	Sewer				0	SEVENTH AVE	cml
033019320010	Sewer				0	WASHINGTON ST	cml
033019320020	Sewer				0	WASHINGTON ST	ldg
033019320040	Sewer				0	SEVENTH AVE	cml
033019320090	Sewer				0	WASHINGTON ST	cml
033019320095	Sewer				0	SEVENTH AVE	cml
033019320140	Sewer				0	NINTH AVE	sfr
033019320160	Sewer				0	WASHINGTON ST	pub_q
033019329000	Sewer				0	WASHINGTON ST	cml
033019329020	Sewer				0	WASHINGTON ST	cml
033019329040	Sewer				0	WASHINGTON ST	cml

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019329050	Sewer				0	WASHINGTON ST	cml
033019349040	Sewer				0	FIFTH AVE	mfr
033019349050	Sewer				0	FIFTH AVE	mfr
033019349080	Sewer				0	HEMLOCK ST	sfr
033019349090	Sewer				0	HEMLOCK ST	sfr
033019349100	Sewer				0	HEMLOCK ST	sfr
033019349110	Sewer				0	HEMLOCK ST	sfr
033019349120	Sewer				0	OLALLEE LN	mh
033019349140	Sewer				0	OLALLEE LN	sfr
033019349150	Sewer				0	OLALLEE LN	sfr
033019349160	Sewer				0	OLALLEE LN	sfr
033019349190	Sewer				0	HEMLOCK ST	mfr
033019420000	Sewer				0	FIFTH AVE	sfr
033019420010	Sewer				0	HAMMOND ST	sfr
033019420030	Sewer				0	HAMMOND ST	sfr
033019420035	Sewer				0	FOURTH AVE	sfr
033019420040	Sewer				0	HAMMOND ST	sfr
033019420050	Sewer				0	HAMMOND ST	sfr
033019420060	Sewer				0	HAMMOND ST	sfr
033019420070	Sewer				0	HAMMOND ST	sfr
033019420080	Sewer				0	FIFTH AVE	sfr
033019420090	Sewer				0	GARLAND PL	mfr
033019420100	Sewer				0	GARLAND PL	mfr
033019420120	Sewer				0	HAMMOND ST	sfr
033019420140	Sewer				0	THIRD AVE	sfr
033019420150	Sewer				0	THIRD AVE	cml
033019420160	Sewer				0	FOURTH AVE	sfr
033019430000	Sewer				0	THIRD AVE	cml
033019430085	Sewer				0	FIFTH AVE	pub_q
033019430120	Sewer				0	THIRD AVE	cml
033019430150	Sewer				0	THIRD AVE	cml
033019430160	Sewer				0	THIRD AVE	cml
033019439000	Sewer				0	PINE ST	cml
033019439030	Sewer				0	PINE ST	sfr
033019439040	Sewer				0	PINE ST	sfr
033019439050	Sewer				0	PINE ST	sfr
033019439090	Sewer				0	PINE ST	mh
033019440020	Sewer				0	SEQUIM AVE	cml
033019440040	Sewer				0	HEMLOCK ST	pub
033019440060	Sewer				0	SEQUIM AVE	vac
033019440070	Sewer				0	HEMLOCK ST	mfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019440075	Sewer				0	SEQUIM AVE	mfr
033019440092	Sewer				0	SECOND AVE	cml
033019440120	Sewer				0	HAMMOND ST	sfr
033019440130	Sewer				0	HAMMOND ST	sfr
033019440140	Sewer				0	HAMMOND ST	sfr
033019440210	Sewer				0	THIRD AVE	sfr
033019440295	Sewer				0	SEQUIM AVE	res_u
033019449000	Sewer				0	HAMMOND ST	sfr
033019449010	Sewer				0	HAMMOND ST	sfr
033019449050	Sewer				0	HAMMOND ST	sfr
033019449060	Sewer				0	HAMMOND ST	sfr
033019490000	Sewer				0	KLAHN PL	mfr
033019500100	Sewer				0	WASHINGTON ST	cml
033019500102	Sewer				0	WASHINGTON ST	cml
033019500103	Sewer				0	WASHINGTON ST	cml
033019500108	Sewer				0	WASHINGTON ST	cml
033019500110	Sewer				0	WASHINGTON ST	cml
033019500112	Sewer				0	WASHINGTON ST	cml
033019500116	Sewer				0	SECOND AVE	cml
033019500122	Sewer				0	BELL ST	cml
033019500124	Sewer				0	BELL ST	mfr
033019500126	Sewer				0	BELL ST	cml
033019500128	Sewer				0	SEQUIM AVE	cml
033019500130	Sewer				0	WASHINGTON ST	cml
033019500134	Sewer				0	WASHINGTON ST	cml
033019500137	Sewer				0	WASHINGTON STREET	cml
033019500200	Sewer				0	WASHINGTON ST	cml
033019500202	Sewer				0	WASHINGTON ST	cml
033019500204	Sewer				0	WASHINGTON ST	cml
033019500205	Sewer				0	WASHINGTON ST	cml
033019500206	Sewer				0	WASHINGTON ST	cml
033019500210	Sewer				0	BELL ST	cml
033019500212	Sewer				0	BELL ST	cml
033019500213	Sewer				0	BELL ST	cml
033019500214	Sewer				0	BELL ST	cml
033019500216	Sewer				0	BELL ST	cml
033019500218	Sewer				0	BELL ST	sfr
033019500220	Sewer				0	BELL ST	cml
033019500222	Sewer				0	BELL ST	sfr
033019500224	Sewer				0	SECOND AVE	cml
033019500226	Sewer				0	BELL ST	pub_q

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019500300	Sewer				0	SECOND AVE	sfr
033019500302	Sewer				0	BELL ST	mfr
033019500304	Sewer				0	BELL ST	sfr
033019500306	Sewer				0	BELL ST	sfr
033019500308	Sewer				0	BELL ST	sfr
033019500310	Sewer				0	BELL ST	cml
033019500312	Sewer				0	BELL ST	sfr
033019500314	Sewer				0	BELL ST	cml
033019500316	Sewer				0	MAPLE ST	sfr
033019500318	Sewer				0	MAPLE ST	sfr
033019500320	Sewer				0	MAPLE ST	sfr
033019500322	Sewer				0	MAPLE ST	sfr
033019500324	Sewer				0	MAPLE ST	mh
033019500325	Sewer				0	MAPLE ST	mh
033019500326	Sewer				0	MAPLE ST	sfr
033019500328	Sewer				0	MAPLE ST	sfr
033019500330	Sewer				0	MAPLE ST	sfr
033019500332	Sewer				0	MAPLE ST	sfr
033019500404	Sewer				0	SEQUIM AVE	cml
033019500406	Sewer				0	BELL ST	cml
033019500408	Sewer				0	BELL ST	pub_q
033019500410	Sewer				0	BELL ST	cml
033019500412	Sewer				0	BELL ST	cml
033019500414	Sewer				0	BELL ST	sfr
033019500416	Sewer				0	BELL ST	sfr
033019500418	Sewer				0	BELL ST	cml
033019500424	Sewer				0	MAPLE ST	sfr
033019500426	Sewer				0	MAPLE ST	sfr
033019500428	Sewer				0	MAPLE ST	sfr
033019500430	Sewer				0	MAPLE ST	sfr
033019500432	Sewer				0	MAPLE ST	sfr
033019500434	Sewer				0	MAPLE ST	sfr
033019500435	Sewer				0	MAPLE ST	sfr
033019500436	Sewer				0	MAPLE ST	sfr
033019500450	Sewer				0	MAPLE ST	sfr
033019500455	Sewer				0	SEQUIM AVE	cml
033019500460	Sewer				0	MAPLE ST	cml
033019500500	Sewer				0	SEQUIM AVE	cml
033019500502	Sewer				0	MAPLE ST	sfr
033019500504	Sewer				0	MAPLE ST	sfr
033019500506	Sewer				0	MAPLE ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019500508	Sewer				0	MAPLE ST	sfr
033019500510	Sewer				0	MAPLE ST	sfr
033019500512	Sewer				0	MAPLE ST	sfr
033019500513	Sewer				0	MAPLE ST	sfr
033019500514	Sewer				0	MAPLE ST	sfr
033019500516	Sewer				0	PRAIRIE ST	sfr
033019500517	Sewer				0	PRAIRIE ST	sfr
033019500520	Sewer				0	PRAIRIE ST	sfr
033019500522	Sewer				0	PRAIRIE ST	sfr
033019500524	Sewer				0	PRAIRIE ST	sfr
033019500526	Sewer				0	PRAIRIE ST	sfr
033019500528	Sewer				0	SEQUIM AVE	sfr
033019500600	Sewer				0	MAPLE ST	sfr
033019500602	Sewer				0	MAPLE ST	sfr
033019500604	Sewer				0	MAPLE ST	sfr
033019500606	Sewer				0	MAPLE ST	sfr
033019500608	Sewer				0	MAPLE ST	sfr
033019500609	Sewer				0	MAPLE ST	sfr
033019500610	Sewer				0	MAPLE ST	sfr
033019500612	Sewer				0	MAPLE ST	sfr
033019500614	Sewer				0	THIRD AVE	sfr
033019500616	Sewer				0	PRAIRIE ST	sfr
033019500618	Sewer				0	PRAIRIE ST	sfr
033019500620	Sewer				0	PRAIRIE ST	sfr
033019500622	Sewer				0	PRAIRIE ST	sfr
033019500624	Sewer				0	PRAIRIE ST	sfr
033019500626	Sewer				0	PRAIRIE ST	sfr
033019500628	Sewer				0	PRAIRIE ST	sfr
033019500629	Sewer				0	PRAIRIE ST	sfr
033019500630	Sewer				0	SECOND AVE	sfr
033019500700	Sewer				0	SECOND AVE	sfr
033019500702	Sewer				0	PRAIRIE ST	sfr
033019500704	Sewer				0	PRAIRIE ST	sfr
033019500706	Sewer				0	PRAIRIE ST	sfr
033019500708	Sewer				0	PRAIRIE	sfr
033019500710	Sewer				0	PRAIRIE ST	sfr
033019500712	Sewer				0	PRAIRIE ST	sfr
033019500713	Sewer				0	PRAIRIE ST	mfr
033019500714	Sewer				0	PRAIRIE ST	mfr
033019500716	Sewer				0	HAMMOND ST	sfr
033019500718	Sewer				0	THIRD AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019500720	Sewer				0	HAMMOND ST	sfr
033019500721	Sewer				0	HAMMOND ST	sfr
033019500722	Sewer				0	HAMMOND ST	sfr
033019500723	Sewer				0	HAMMOND ST	sfr
033019500724	Sewer				0	HAMMOND ST	sfr
033019500800	Sewer				0	SEQUIM AVE	sfr
033019500802	Sewer				0	SEQUIM AVE	sfr
033019500804	Sewer				0	PRAIRIE ST	sfr
033019500806	Sewer				0	PRAIRIE ST	sfr
033019500808	Sewer				0	PRAIRIE ST	sfr
033019500810	Sewer				0	PRAIRIE ST	sfr
033019500812	Sewer				0	PRAIRIE ST	sfr
033019500816	Sewer				0	SECOND AVE	sfr
033019500818	Sewer				0	HAMMOND ST	sfr
033019500820	Sewer				0	HAMMOND ST	sfr
033019500822	Sewer				0	HAMMOND ST	sfr
033019500824	Sewer				0	HAMMOND ST	sfr
033019500826	Sewer				0	HAMMOND ST	sfr
033019500828	Sewer				0	HAMMOND ST	sfr
033019500830	Sewer				0	SEQUIM AVE	sfr
033019500832	Sewer				0	SEQUIM AVE	sfr
033019500834	Sewer				0	PRAIRIE ST	sfr
033019509000	Sewer				0	SECOND AVE	sfr
033019509010	Sewer				0	SECOND AVE	sfr
033019510100	Sewer				0	ALDER ST	pub
033019510200	Sewer				0	FIR ST	sfr
033019510202	Sewer				0	FIR ST	sfr
033019510204	Sewer				0	FIR ST	sfr
033019510206	Sewer				0	THIRD AVE	sfr
033019510210	Sewer				0	THIRD AVE	mfr
033019510212	Sewer				0	FIR ST	mh
033019510214	Sewer				0	ALDER ST	sfr
033019510216	Sewer				0	ALDER ST	sfr
033019510218	Sewer				0	ALDER ST	sfr
033019510220	Sewer				0	THIRD AVE	sfr
033019510222	Sewer				0	ALDER ST	sfr
033019510232	Sewer				0	ALDER ST	sfr
033019510300	Sewer				0	ALDER ST	sfr
033019510302	Sewer				0	ALDER ST	sfr
033019510304	Sewer				0	FIR ST	sfr
033019510306	Sewer				0	ALDER ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019510308	Sewer				0	ALDER ST	sfr
033019510310	Sewer				0	ALDER ST	mfr
033019510312	Sewer				0	FIFTH AVE	sfr
033019510314	Sewer				0	FIR ST	sfr
033019510316	Sewer				0	ALDER ST	sfr
033019510318	Sewer				0	ALDER ST	sfr
033019510320	Sewer				0	ALDER ST	sfr
033019510324	Sewer				0	FIR ST	sfr
033019510328	Sewer				0	ALDER ST	sfr
033019510330	Sewer				0	ALDER ST	mh
033019510332	Sewer				0	FIR ST	sfr
033019510334	Sewer				0	FOURTH AVE	sfr
033019510700	Sewer				0	SPRUCE ST	sfr
033019510702	Sewer				0	SPRUCE ST	pub_q
033019510704	Sewer				0	SPRUCE ST	sfr
033019510706	Sewer				0	SPRUCE ST	sfr
033019510708	Sewer				0	SPRUCE ST	sfr
033019510710	Sewer				0	CEDAR ST	pub_q
033019510712	Sewer				0	CEDAR ST	sfr
033019510714	Sewer				0	CEDAR ST	sfr
033019510716	Sewer				0	CEDAR ST	sfr
033019510718	Sewer				0	CEDAR ST	sfr
033019510720	Sewer				0	CEDAR ST	sfr
033019510722	Sewer				0	CEDAR ST	pub_q
033019510724	Sewer				0	SPRUCE ST	sfr
033019510726	Sewer				0	SPRUCE ST	pub_q
033019510728	Sewer				0	SPRUCE ST	sfr
033019510732	Sewer				0	SPRUCE ST	mfr
033019510804	Sewer				0	SPRUCE ST	sfr
033019510806	Sewer				0	CEDAR ST	cml
033019510810	Sewer				0	CEDAR ST	sfr
033019510812	Sewer				0	CEDAR ST	sfr
033019510814	Sewer				0	SPRUCE ST	sfr
033019510816	Sewer				0	CEDAR ST	mfr
033019510818	Sewer				0	CEDAR ST	sfr
033019510820	Sewer				0	CEDAR ST	pub_q
033019510822	Sewer				0	CEDAR ST	sfr
033019510824	Sewer				0	CEDAR ST	sfr
033019511001	Sewer				0	WASHINGTON ST	cml
033019511002	Sewer				0	WASHINGTON ST	cml
033019511004	Sewer				0	CEDAR ST	mhp

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019511005	Sewer				0	WASHINGTON ST	cml
033019511100	Sewer				0	SEQUIM AVE	cml
033019511102	Sewer				0	SEQUIM AVE	cml
033019511106	Sewer				0	SEQUIM AVE	mfr
033019511112	Sewer				0	SPRUCE ST	mfr
033019511114	Sewer				0	SPRUCE ST	sfr
033019511116	Sewer				0	SPRUCE ST	sfr
033019511118	Sewer				0	SPRUCE ST	sfr
033019511120	Sewer				0	SPRUCE ST	sfr
033019511121	Sewer				0	SPRUCE ST	sfr
033019511123	Sewer				0	CEDAR ST	pub
033019511124	Sewer				0	CEDAR ST	pub
033019511200	Sewer				0	SPRUCE ST	sfr
033019511201	Sewer				0	SPRUCE ST	sfr
033019511202	Sewer				0	SPRUCE ST	sfr
033019511204	Sewer				0	SPRUCE ST	sfr
033019511206	Sewer				0	SPRUCE ST	sfr
033019511208	Sewer				0	SPRUCE ST	sfr
033019511210	Sewer				0	SPRUCE ST	sfr
033019511212	Sewer				0	SPRUCE ST	sfr
033019511214	Sewer				0	THIRD AVE	sfr
033019511216	Sewer				0	THIRD AVE	sfr
033019511218	Sewer				0	CEDAR ST	sfr
033019511220	Sewer				0	CEDAR ST	sfr
033019511222	Sewer				0	CEDAR ST	sfr
033019511224	Sewer				0	CEDAR ST	cml
033019511226	Sewer				0	CEDAR ST	cml
033019511228	Sewer				0	CEDAR ST	sfr
033019511230	Sewer				0	CEDAR ST	cml
033019511240	Sewer				0	CEDAR ST	cml
033019511300	Sewer				0	CEDAR ST	cml
033019511304	Sewer				0	CEDAR ST	sfr
033019511308	Sewer				0	CEDAR ST	sfr
033019511310	Sewer				0	CEDAR ST	sfr
033019511312	Sewer				0	CEDAR ST	sfr
033019511314	Sewer				0	CEDAR ST	sfr
033019511316	Sewer				0	WASHINGTON ST	cml
033019511322	Sewer				0	WASHINGTON ST	cml
033019511324	Sewer				0	WASHINGTON ST	cml
033019511326	Sewer				0	WASHINGTON ST	cml
033019511328	Sewer				0	WASHINGTON ST	cml

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019511402	Sewer				0	CEDAR ST	cml
033019511404	Sewer				0	CEDAR ST	cml
033019511406	Sewer				0	WASHINGTON ST	cml
033019511408	Sewer				0	WASHINGTON ST	cml
033019511412	Sewer				0	CEDAR ST	mfr
033019511416	Sewer				0	CEDAR ST	cml
033019511418	Sewer				0	CEDAR ST	cml
033019511420	Sewer				0	CEDAR ST	sfr
033019511422	Sewer				0	CEDAR ST	cml
033019511424	Sewer				0	WASHINGTON ST	cml
033019511426	Sewer				0	WASHINGTON ST	cml
033019511428	Sewer				0	WASHINGTON ST	cml
033019511432	Sewer				0	WASHINGTON ST	cml
033019519010	Sewer				0	FIFTH AVE	cml
033019519020	Sewer				0	FIR ST	sfr
033019519030	Sewer				0	SPRUCE ST	sfr
033019519040	Sewer				0	SPRUCE ST	sfr
033019519050	Sewer				0	SPRUCE ST	cml
033019519060	Sewer				0	SPRUCE ST	cml
033019519070	Sewer				0	SPRUCE ST	cml
033019519090	Sewer				0	FOURTH AVE	sfr
033019519100	Sewer				0	FIR ST	sfr
033019519120	Sewer				0	FIR ST	mh
033019519140	Sewer				0	CEDAR ST	mhp
033019519150	Sewer				0	SECOND AVE	sfr
033019519160	Sewer				0	SECOND AVE	sfr
033019520100	Sewer				0	SEQUIM AVE	cml
033019520204	Sewer				0	SEQUIM AVE	cml
033019520208	Sewer				0	SEQUIM AVE	cml
033019520212	Sewer				0	SEQUIM AVE	cml
033019520216	Sewer				0	ALDER ST	cml
033019520224	Sewer				0	ALDER ST	sfr
033019520230	Sewer				0	ALDER ST	sfr
033019520232	Sewer				0	ALDER ST	sfr
033019520238	Sewer				0	ALDER ST	sfr
033019520242	Sewer				0	SECOND AVE	sfr
033019520246	Sewer				0	SECOND AVE	sfr
033019520254	Sewer				0	SPRUCE ST	sfr
033019520260	Sewer				0	SPRUCE ST	sfr
033019520264	Sewer				0	SPRUCE ST	sfr
033019520270	Sewer				0	SPRUCE ST	cml

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019520278	Sewer				0	SPRUCE ST	cml
033019530100	Sewer				0	MAPLE ST	sfr
033019530104	Sewer				0	MAPLE ST	sfr
033019530108	Sewer				0	MAPLE ST	sfr
033019530112	Sewer				0	MAPLE ST	sfr
033019530120	Sewer				0	MAPLE ST	sfr
033019530124	Sewer				0	MAPLE ST	sfr
033019530128	Sewer				0	MAPLE ST	sfr
033019530132	Sewer				0	MAPLE ST	sfr
033019530140	Sewer				0	MAPLE ST	sfr
033019530144	Sewer				0	PRAIRIE ST	mhp
033019530176	Sewer				0	PRAIRIE ST	sfr
033019530180	Sewer				0	PRAIRIE ST	sfr
033019540010	Sewer				0	ALDER ST	pub
033019540030	Sewer				0	ALDER ST	sfr
033019550300	Sewer				0	CEDAR ST	sfr
033019550304	Sewer				0	CEDAR ST	sfr
033019550308	Sewer				0	CEDAR ST	mfr
033019550320	Sewer				0	WASHINGTON ST	cml
033019550356	Sewer				0	WASHINGTON ST	mfr
033019560100	Sewer				0	SECOND AVE	sfr
033019560105	Sewer				0	SECOND AVE	sfr
033019560108	Sewer				0	ALDER ST	sfr
033019560112	Sewer				0	ALDER ST	sfr
033019560116	Sewer				0	ALDER ST	sfr
033019560120	Sewer				0	ALDER ST	sfr
033019560124	Sewer				0	ALDER ST	sfr
033019560130	Sewer				0	ALDER ST	sfr
033019560138	Sewer				0	ALDER ST	sfr
033019560142	Sewer				0	ALDER ST	sfr
033019560146	Sewer				0	SPRUCE ST	sfr
033019560150	Sewer				0	SPRUCE ST	sfr
033019560154	Sewer				0	SPRUCE ST	sfr
033019560158	Sewer				0	SPRUCE ST	sfr
033019560162	Sewer				0	SPRUCE ST	sfr
033019560166	Sewer				0	SPRUCE ST	sfr
033019560170	Sewer				0	SPRUCE ST	sfr
033019560174	Sewer				0	SPRUCE ST	sfr
033019560182	Sewer				0	SPRUCE ST	sfr
033019570101	Sewer				0	N 3RD AVE	sfr
033019570102	Sewer				0	3RD AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019570105	Sewer				0	ALDER ST	sfr
033019570115	Sewer				0	ALDER ST	sfr
033019570120	Sewer				0	ALDER ST	sfr
033019570125	Sewer				0	ALDER ST	sfr
033019570130	Sewer				0	ALDER ST	sfr
033019570135	Sewer				0	ALDER ST	sfr
033019570140	Sewer				0	FOURTH AVE	sfr
033019570145	Sewer				0	SPRUCE ST	sfr
033019570150	Sewer				0	SPRUCE ST	sfr
033019570155	Sewer				0	SPRUCE ST	mfr
033019570165	Sewer				0	SPRUCE ST	sfr
033019570170	Sewer				0	SPRUCE ST	sfr
033019570175	Sewer				0	SPRUCE ST	sfr
033019570180	Sewer				0	SPRUCE ST	sfr
033019570185	Sewer				0	SPRUCE ST	sfr
033019570190	Sewer				0	SPRUCE ST	sfr
033019580100	Sewer				0	ALDER ST	sfr
033019580105	Sewer				0	ALDER ST	sfr
033019580110	Sewer				0	ALDER ST	sfr
033019580112	Sewer				0	ALDER ST	sfr
033019580115	Sewer				0	ALDER ST	sfr
033019580120	Sewer				0	ALDER ST	sfr
033019580125	Sewer				0	ALDER ST	sfr
033019580130	Sewer				0	ALDER ST	sfr
033019580135	Sewer				0	ALDER ST	sfr
033019580140	Sewer				0	ALDER ST	cml
033019580145	Sewer				0	SPRUCE ST	sfr
033019580147	Sewer				0	SPRUCE ST	sfr
033019580150	Sewer				0	SPRUCE ST	sfr
033019580155	Sewer				0	SPRUCE ST	sfr
033019580160	Sewer				0	SPRUCE ST	sfr
033019580165	Sewer				0	SPRUCE ST	sfr
033019580170	Sewer				0	SPRUCE ST	sfr
033019580175	Sewer				0	SPRUCE ST	sfr
033019580180	Sewer				0	SPRUCE ST	sfr
033019580185	Sewer				0	SPRUCE ST	sfr
033019590100	Sewer				0	WASHINGTON ST	cml
033019590102	Sewer				0	WASHINGTON ST	cml
033019590104	Sewer				0	WASHINGTON ST	cml
033019590106	Sewer				0	WASHINGTON ST	cml
033019590108	Sewer				0	WASHINGTON ST	cml

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019590110	Sewer				0	WASHINGTON ST	cml
033019590112	Sewer				0	WASHINGTON ST	cml
033019590114	Sewer				0	WASHINGTON ST	cml
033019590116	Sewer				0	BELL ST	sfr
033019590118	Sewer				0	BELL ST	cml
033019590119	Sewer				0	BELL ST	sfr
033019590120	Sewer				0	BELL ST	cml
033019590124	Sewer				0	BELL ST	cml
033019590126	Sewer				0	BELL ST	cml
033019590200	Sewer				0	BELL ST	sfr
033019590202	Sewer				0	BELL ST	sfr
033019590204	Sewer				0	BELL ST	sfr
033019590206	Sewer				0	BELL ST	sfr
033019590208	Sewer				0	BELL ST	sfr
033019590210	Sewer				0	BELL ST	sfr
033019590212	Sewer				0	BELL ST	cml
033019590214	Sewer				0	BELL ST	sfr
033019590216	Sewer				0	BELL ST	cml
033019590218	Sewer				0	BELL ST	sfr
033019590220	Sewer				0	MAPLE ST	sfr
033019590222	Sewer				0	MAPLE ST	sfr
033019590224	Sewer				0	MAPLE ST	sfr
033019590226	Sewer				0	MAPLE ST	sfr
033019590228	Sewer				0	MAPLE ST	sfr
033019590230	Sewer				0	MAPLE ST	sfr
033019590232	Sewer				0	MAPLE ST	sfr
033019590234	Sewer				0	MAPLE ST	sfr
033019600100	Sewer				0	WASHINGTON ST	cml
033019600105	Sewer				0	WASHINGTON ST	cml
033019600110	Sewer				0	WASHINGTON ST	cml
033019600115	Sewer				0	WASHINGTON ST	cml
033019600120	Sewer				0	WASHINGTON ST	cml
033019600125	Sewer				0	WASHINGTON ST	cml
033019600130	Sewer				0	WASHINGTON ST	cml
033019600135	Sewer				0	FIFTH AVE	cml
033019600145	Sewer				0	BELL ST	mfr
033019600150	Sewer				0	BELL ST	mfr
033019600155	Sewer				0	BELL ST	mfr
033019600160	Sewer				0	BELL ST	sfr
033019600165	Sewer				0	BELL ST	sfr
033019600168	Sewer				0	BELL ST	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019600170	Sewer				0	BELL ST	mfr
033019600200	Sewer				0	FOURTH AVE	cml
033019600210	Sewer				0	BELL ST	sfr
033019600215	Sewer				0	BELL ST	sfr
033019600220	Sewer				0	BELL ST	cml
033019600225	Sewer				0	BELL ST	sfr
033019600230	Sewer				0	BELL ST	sfr
033019600235	Sewer				0	BELL ST	sfr
033019600240	Sewer				0	BELL ST	sfr
033019600265	Sewer				0	MAPLE ST	sfr
033019600270	Sewer				0	MAPLE ST	sfr
033019600275	Sewer				0	MAPLE ST	sfr
033019609010	Sewer				0	MAPLE ST	sfr
033019609020	Sewer				0	MAPLE ST	sfr
033019610100	Sewer				0	FIFTH AVE	sfr
033019610108	Sewer				0	PRAIRIE ST	sfr
033019610116	Sewer				0	PRAIRIE ST	sfr
033019610132	Sewer				0	PRAIRIE ST	sfr
033019610148	Sewer				0	PRAIRIE ST	sfr
033019610164	Sewer				0	PRAIRIE ST	sfr
033019610172	Sewer				0	PRAIRIE ST	sfr
033019610180	Sewer				0	GARLAND PL	sfr
033019620100	Sewer				0	SEQUIM AVE	sfr
033019620102	Sewer				0	HAMMOND ST	sfr
033019620104	Sewer				0	HAMMOND ST	sfr
033019620106	Sewer				0	HAMMOND ST	sfr
033019620108	Sewer				0	HAMMOND ST	sfr
033019620110	Sewer				0	HAMMOND ST	mfr
033019620115	Sewer				0	HAMMOND ST	sfr
033019630100	Sewer				0	FIFTH AVE	sfr
033019630116	Sewer				0	PRAIRIE ST	sfr
033019630132	Sewer				0	PRAIRIE ST	sfr
033019630148	Sewer				0	PRAIRIE ST	sfr
033019630164	Sewer				0	PRAIRIE ST	sfr
033019630180	Sewer				0	FOURTH AVE	sfr
033019640100	Sewer				0	HAMMOND ST	sfr
033019640103	Sewer				0	HAMMOND ST	sfr
033019640106	Sewer				0	HAMMOND ST	sfr
033019640109	Sewer				0	HAMMOND ST	sfr
033019640112	Sewer				0	HAMMOND ST	sfr
033019640115	Sewer				0	HAMMOND ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019640118	Sewer				0	HAMMOND ST	sfr
033019640121	Sewer				0	HAMMOND ST	sfr
033019640124	Sewer				0	HEMLOCK ST	sfr
033019640127	Sewer				0	HEMLOCK ST	sfr
033019640130	Sewer				0	HEMLOCK ST	sfr
033019640133	Sewer				0	HEMLOCK ST	sfr
033019640136	Sewer				0	HEMLOCK ST	sfr
033019640139	Sewer				0	HEMLOCK ST	sfr
033019640142	Sewer				0	HEMLOCK ST	sfr
033019640145	Sewer				0	HEMLOCK ST	sfr
033019640148	Sewer				0	HEMLOCK ST	sfr
033019640151	Sewer				0	HEMLOCK ST	sfr
033019640154	Sewer				0	HEMLOCK ST	sfr
033019640157	Sewer				0	HEMLOCK ST	sfr
033019640160	Sewer				0	HEMLOCK ST	sfr
033019640163	Sewer				0	HEMLOCK ST	sfr
033019640166	Sewer				0	HEMLOCK ST	sfr
033019640169	Sewer				0	HEMLOCK ST	sfr
033019640172	Sewer				0	PINE ST	pub
033019640175	Sewer				0	PINE ST	sfr
033019649010	Sewer				0	PINE ST	sfr
033019649020	Sewer				0	PINE ST	mh
033019650010	Sewer				0	FIFTH AVE	cml
033019650020	Sewer				0	FIFTH AVE	cml
033019650030	Sewer				0	FIFTH AVENUE	cml
033019650040	Sewer				0	FIFTH AVENUE	cml
033019650050	Sewer				0	FIFTH ST	cml
033019650060	Sewer				0	FIFTH AVE	cml
033019650148	Sewer				0	FIR ST	sfr
033019660103	Sewer				0	HAMMOND ST	sfr
033019660106	Sewer				0	HAMMOND ST	sfr
033019660109	Sewer				0	HAMMOND ST	sfr
033019660112	Sewer				0	HAMMOND ST	sfr
033019660115	Sewer				0	HAMMOND ST	sfr
033019660118	Sewer				0	HAMMOND ST	sfr
033019660121	Sewer				0	HAMMOND ST	sfr
033019660124	Sewer				0	HAMMOND ST	sfr
033019669010	Sewer				0	FOURTH AVE	sfr
033019669030	Sewer				0	PRAIRIE ST	sfr
033019669040	Sewer				0	PRAIRIE ST	sfr
033019669050	Sewer				0	PRAIRIE ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019670127	Sewer				0	HEMLOCK ST	sfr
033019670130	Sewer				0	HEMLOCK ST	sfr
033019670133	Sewer				0	HEMLOCK ST	sfr
033019670136	Sewer				0	HEMLOCK ST	sfr
033019680139	Sewer				0	THIRD AVE	mfr
033019680145	Sewer				0	HEMLOCK ST	sfr
033019680148	Sewer				0	HEMLOCK ST	sfr
033019680151	Sewer				0	HEMLOCK ST	sfr
033019680154	Sewer				0	HEMLOCK ST	sfr
033019680157	Sewer				0	HEMLOCK ST	sfr
033019680160	Sewer				0	HEMLOCK ST	sfr
033019690163	Sewer				0	PINE ST	sfr
033019690166	Sewer				0	PINE ST	sfr
033019690169	Sewer				0	PINE ST	sfr
033019690172	Sewer				0	PINE ST	sfr
033019690175	Sewer				0	PINE ST	sfr
033019690178	Sewer				0	PINE ST	sfr
033019690181	Sewer				0	PINE ST	sfr
033019690183	Sewer				0	PINE ST	sfr
033019700000	Sewer				0	DEMMING RD	mhp
033019710200	Sewer				0	FIR ST	sfr
033019710300	Sewer				0	FIR ST	sfr
033019710400	Sewer				0	FIR ST	sfr
033019710600	Sewer				0	FIR ST	sfr
033019710700	Sewer				0	FIR ST	sfr
033019710800	Sewer				0	FIR ST	sfr
033019711000	Sewer				0	FIR ST	sfr
033019711100	Sewer				0	FIR ST	mfr
033019711200	Sewer				0	FIR ST	sfr
033019711300	Sewer				0	FIR ST	sfr
033019721400	Sewer				0	FIR ST	sfr
033019721500	Sewer				0	FIR ST	sfr
033019721600	Sewer				0	FIR ST	sfr
033019721700	Sewer				0	FIR ST	sfr
033019721800	Sewer				0	FIR ST	sfr
033019721900	Sewer				0	FIR ST	sfr
033019722000	Sewer				0	FIR ST	sfr
033019722100	Sewer				0	FIR ST	sfr
033019722200	Sewer				0	FIR ST	sfr
033019722300	Sewer				0	FIR ST	sfr
033019722400	Sewer				0	KLAHN PL	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019722500	Sewer				0	KLAHN PL	sfr
033019722800	Sewer				0	FIR ST	mh
033019722900	Sewer				0	FIR ST	sfr
033019723000	Sewer				0	FIR ST	sfr
033019723100	Sewer				0	FIR ST	sfr
033019723200	Sewer				0	FIR ST	sfr
033019723300	Sewer				0	FIR ST	sfr
033019730035	Sewer				0	SALAL PL	sfr
033019730040	Sewer				0	SALAL PL	sfr
033019730050	Sewer				0	SALAL PL	sfr
033019730060	Sewer				0	SALAL PL	sfr
033019730110	Sewer				0	SALAL PL	sfr
033019730120	Sewer				0	SALAL PL	sfr
033019730140	Sewer				0	SALAL PL	sfr
033019730155	Sewer				0	SALAL PL	sfr
033019740100	Sewer				0	SEVENTH AVE	mhp
033019740360	Sewer				0	SEVENTH AVE	cml
033019750100	Sewer				0	KLAHN PL	mfr
033019760100	Sewer				0	FIR ST	mfr
033019770000	Sewer				0	FIR ST	mfr
033019780000	Sewer				0	FIFTH AVE	mhp
033019780100	Sewer				0	FIFTH AVE	pub
033019790010	Sewer				0	FIFTH PLACE	sfr
033019790020	Sewer				0	FIFTH PL	sfr
033019790070	Sewer				0	FIFTH PL	sfr
033019790080	Sewer				0	FIFTH PL	sfr
033019790140	Sewer				0	SALAL PL	sfr
033019790150	Sewer				0	SALAL PL	sfr
033019790160	Sewer				0	SALAL PL	sfr
033019790170	Sewer				0	SALAL PL	sfr
033019800100	Sewer				0	PINE CT	sfr
033019800110	Sewer				0	PINE CT	sfr
033019800130	Sewer				0	PINE CT	sfr
033019800140	Sewer				0	PINE CT	sfr
033019800150	Sewer				0	PINE CT	sfr
033019800160	Sewer				0	PINE CT	sfr
033019800170	Sewer				0	PINE CT	sfr
033019800180	Sewer				0	PINE CT	sfr
033019810000	Sewer				0	SUMMER BREEZE LN	rd
033019810010	Sewer				0	SUMMER BREEZE LN	sfr
033019810020	Sewer				0	SUMMER BREEZE LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019810030	Sewer				0	SUMMER BREEZE LN	sfr
033019810040	Sewer				0	SUMMER BREEZE LN	sfr
033019810050	Sewer				0	SUMMER BREEZE LN	sfr
033019810060	Sewer				0	SUMMER BREEZE LN	sfr
033019810070	Sewer				0	SUMMER BREEZE LN	sfr
033019810080	Sewer				0	SUMMER BREEZE LN	sfr
033019810090	Sewer				0	SUMMER BREEZE LN	sfr
033019810100	Sewer				0	SUMMER BREEZE LN	sfr
033019810110	Sewer				0	SUMMER BREEZE LN	sfr
033019810120	Sewer				0	SUMMER BREEZE LN	sfr
033019810130	Sewer				0	SUMMER BREEZE LN	sfr
033019810140	Sewer				0	SUMMER BREEZE LN	sfr
033019810150	Sewer				0	SUMMER BREEZE LN	sfr
033019810160	Sewer				0	SUMMER BREEZE LN	sfr
033019820550	Sewer				0	SEVENTH AVE	cml
033019830010	Sewer				0	FIR ST	sfr
033019830020	Sewer				0	FIR ST	sfr
033019830030	Sewer				0	FIR ST	sfr
033019830050	Sewer				0	FIR ST	mh
033019840010	Sewer				0	FIFTH AVE	cml
033019840020	Sewer				0	FIFTH AVE	cml
033019840030	Sewer				0	FIFTH AVE	cml
033019850010	Sewer				0	MAIZIE CT	sfr
033019850020	Sewer				0	MAIZIE CT	sfr
033019850030	Sewer				0	MAIZIE CT	sfr
033019850160	Sewer				0	MAIZIE CT	sfr
033019850170	Sewer				0	MAIZIE CT	sfr
033019850180	Sewer				0	MAIZIE CT	sfr
033019860010	Sewer				0	SEVENTH AVE	cml
033019860020	Sewer				0	WASHINGTON ST	cml
033019860030	Sewer				0	WASHINGTON ST	cml
033019860040	Sewer				0	WASHINGTON ST	cml
033019860050	Sewer				0	WASHINGTON ST	cml
033019860060	Sewer				0	WASHINGTON ST	cml
033019860070	Sewer				0	WASHINGTON ST	cml
033019860080	Sewer				0	WASHINGTON ST	cml
033019860090	Sewer				0	SPRUCE ST	pub_os
033019880000	Sewer				0	SUMMER BREEZE LN	pub_os
033019880170	Sewer				0	SUMMER BREEZE LN	sfr
033019880180	Sewer				0	SUMMER BREEZE LN	sfr
033019880190	Sewer				0	SUMMER BREEZE LN	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019880200	Sewer				0	SUMMER BREEZE LN	sfr
033019880210	Sewer				0	SUMMER BREEZE LN	sfr
033019880220	Sewer				0	SUMMER BREEZE LN	sfr
033019880230	Sewer				0	SUMMER BREEZE LN	sfr
033019880240	Sewer				0	SUMMER BREEZE LN	sfr
033019880250	Sewer				0	SUMMER BREEZE LN	sfr
033019880270	Sewer				0	SUMMER BREEZE LN	sfr
033019880300	Sewer				0	SUMMER BREEZE LN	sfr
033019880310	Sewer				0	SUMMER BREEZE LN	sfr
033019880330	Sewer				0	SUMMER BREEZE	sfr
033019880345	Sewer				0	SUMMER BREEZE LN	sfr
033019880370	Sewer				0	SUMMER BREEZE LN	sfr
033019880380	Sewer				0	SUMMER BREEZE LN	sfr
033019880390	Sewer				0	SUMMER BREEZE LN	sfr
033019880400	Sewer				0	SUMMER BREEZE LN	sfr
033019880420	Sewer				0	SUMMER BREEZE LN	sfr
033019880430	Sewer				0	SUMMER BREEZE LN	sfr
033019880460	Sewer				0	SUMMER BREEZE LN	sfr
033019880470	Sewer				0	SUMMER BREEZE LN	sfr
033019880480	Sewer				0	SUMMER BREEZE LN	sfr
033019890110	Sewer				0	HAMMOND ST	mh
033019890120	Sewer				0	HAMMOND ST	mh
033019890130	Sewer				0	HAMMOND ST	sfr
033019890140	Sewer				0	HEMLOCK ST	sfr
033019890150	Sewer				0	HEMLOCK ST	sfr
033019890160	Sewer				0	HEMLOCK ST	sfr
033019890210	Sewer				0	PINE CONE CT	sfr
033019890220	Sewer				0	PINE CONE CT	sfr
033019890310	Sewer				0	PINE CONE CT	sfr
033019890320	Sewer				0	PINE CONE CT	sfr
033019900010	Sewer				0	EUREKA WY	cml
033019900050	Sewer				0	EUREKA WY	cml
033019900060	Sewer				0	EUREKA WY	cml
033019910000	Sewer				0	FIR ST	mfr
033020110200	Sewer				0	BLAKE AVE	sfr
033020129010	Sewer				0	BROWN RD	sfr
033020140075	Sewer				0	BLAKE AVE	pub_os
033020220030	Sewer				0	FIR ST	sfr
033020220050	Sewer				0	SEQUIM AVE	cml
033020220060	Sewer				0	FIR ST	sfr
033020220070	Sewer				0	FIR ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020220080	Sewer				0	FIR ST	sfr
033020220090	Sewer				0	FIR ST	sfr
033020220095	Sewer				0	SEQUIM AVE	cml
033020220100	Sewer				0	FIR ST	sfr
033020220110	Sewer				0	FIR ST	sfr
033020220120	Sewer				0	FIR ST	sfr
033020220140	Sewer				0	SEQUIM AVE	cml
033020220150	Sewer				0	SEQUIM AVE	cml
033020229010	Sewer				0	FIR ST	mfr
033020229030	Sewer				0	KNAPMAN AVE	sfr
033020229040	Sewer				0	KNAPMAN AVE	sfr
033020229050	Sewer				0	KNAPMAN AVE	sfr
033020229060	Sewer				0	KNAPMAN AVE	sfr
033020229070	Sewer				0	FIR ST	sfr
033020229080	Sewer				0	SEQUIM AVE	sfr
033020229090	Sewer				0	SEQUIM AVE	mfr
033020229130	Sewer				0	FIR ST	sfr
033020229140	Sewer				0	FIR ST	sfr
033020230010	Sewer				0	WASHINGTON ST	cml
033020230015	Sewer				0	CEDAR ST	cml
033020230040	Sewer				0	WASHINGTON ST	cml
033020230060	Sewer				0	FIR ST	sfr
033020230070	Sewer				0	FIR ST	sfr
033020230080	Sewer				0	FIR ST	mfr
033020230090	Sewer				0	SUNNYSIDE AVE	sfr
033020230100	Sewer				0	SUNNYSIDE AVE	sfr
033020230130	Sewer				0	SUNNYSIDE AVE	sfr
033020230140	Sewer				0	SUNNYSIDE AVE	sfr
033020230170	Sewer				0	SUNNYSIDE AVE	sfr
033020230180	Sewer				0	SUNNYSIDE AVE	res_u
033020230190	Sewer				0	SUNNYSIDE AVE	res_u
033020230200	Sewer				0	SUNNYSIDE AVE	res_u
033020230220	Sewer				0	SUNNYSIDE AVE	sfr
033020230230	Sewer				0	Sunnyside	mfr
033020230240	Sewer				0	WASHINGTON ST	cml
033020230250	Sewer				0	WASHINGTON ST	cml
033020230260	Sewer				0	SEQUIM AVE	cml
033020310000	Sewer				0	WASHINGTON ST	cml
033020310040	Sewer				0	WASHINGTON ST	cml
033020310050	Sewer				0	WASHINGTON ST	cml
033020310150	Sewer				0	WASHINGTON ST	cml

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020319040	Sewer				0	WASHINGTON ST	cml
033020319050	Sewer				0	WASHINGTON ST	cml
033020319060	Sewer				0	WASHINGTON ST	ldg
033020320120	Sewer				0	SUNNYSIDE AVE	mfr
033020320140	Sewer				0	WASHINGTON ST	cml
033020320150	Sewer				0	SUNNYSIDE AVE	pub
033020322130	Sewer				0	WASHINGTON ST	pub_os
033020329010	Sewer				0	PRAIRIE ST	mfr
033020329030	Sewer				0	PRAIRIE ST	mfr
033020329040	Sewer				0	PRAIRIE ST	mfr
033020330020	Sewer				0	SEQUIM AVE	sfr
033020410050	Sewer				0	BLAKE AVE	pub_q
033020429000	Sewer				0	WASHINGTON ST	cml
033020429010	Sewer				0	WASHINGTON ST	cml
033020429020	Sewer				0	WASHINGTON ST	cml
033020429040	Sewer				0	WASHINGTON ST	cml
033020429050	Sewer				0	BROWN RD	ldg
033020429080	Sewer				0	LEE CHATFIELD AVE	cml
033020429085	Sewer				0	WASHINGTON ST	cml
033020430080	Sewer				0	HAMMOND ST	sfr
033020439010	Sewer				0	HAMMOND ST	cml
033020439020	Sewer				0	HAMMOND ST	exempt
033020440050	Sewer				0	STILL RD	cml
033020440060	Sewer				0	WASHINGTON ST	cml
033020440130	Sewer				0	WASHINGTON ST	cml
033020440140	Sewer				0	WASHINGTON ST	ldg
033020447020	Sewer				0	WASHINGTON ST	cml
033020447030	Sewer				0	SEQUIM BAY RD	cml
033020447040	Sewer				0	SEQUIM BAY RD	cml
033020447060	Sewer				0	RHODEFER RD	mfr
033020500100	Sewer				0	WASHINGTON ST	cml
033020500104	Sewer				0	WASHINGTON ST	cml
033020500108	Sewer				0	WASHINGTON ST	cml
033020500112	Sewer				0	WASHINGTON ST	cml
033020500116	Sewer				0	WASHINGTON ST	cml
033020500120	Sewer				0	SEQUIM AVE	cml
033020500124	Sewer				0	SEQUIM AVE	cml
033020500132	Sewer				0	SEQUIM AVE	cml
033020500136	Sewer				0	SEQUIM AVE	cml
033020500140	Sewer				0	SEQUIM AVE	cml
033020500144	Sewer				0	SEQUIM AVE	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020500148	Sewer				0	SEQUIM AVE	pub_q
033020500160	Sewer				0	SEQUIM AVE	pub_q
033020510100	Sewer				0	SEQUIM AVE	pub_os
033020510120	Sewer				0	WASHINGTON ST	cml
033020510130	Sewer				0	WASHINGTON ST	cml
033020510140	Sewer				0	WASHINGTON ST	cml
033020510150	Sewer				0	WASHINGTON ST	cml
033020510160	Sewer				0	WASHINGTON ST	pub_q
033020510207	Sewer				0	S SEQUIM AVE	cml
033020510210	Sewer				0	ETTA ST	cml
033020510215	Sewer				0	ETTA ST	cml
033020510220	Sewer				0	ETTA ST	cml
033020510260	Sewer				0	BELL ST	cml
033020510285	Sewer				0	BELL ST	mfr
033020520100	Sewer				0	SUNNYSIDE AVE	cml
033020520105	Sewer				0	BELL ST	cml
033020520200	Sewer				0	SUNNYSIDE AVE	cml
033020520210	Sewer				0	MAPLE ST	sfr
033020520215	Sewer				0	MAPLE ST	sfr
033020520220	Sewer				0	MAPLE ST	sfr
033020520225	Sewer				0	MAPLE ST	pub_q
033020520230	Sewer				0	MAPLE ST	pub_q
033020520235	Sewer				0	MAPLE ST	pub_q
033020520240	Sewer				0	MAPLE ST	pub_q
033020520245	Sewer				0	MAPLE ST	pub_q
033020520250	Sewer				0	SEQUIM AVE	cml
033020520255	Sewer				0	SEQUIM AVE	sfr
033020520260	Sewer				0	PRAIRIE ST	sfr
033020520262	Sewer				0	PRAIRIE ST	sfr
033020520265	Sewer				0	PRAIRIE ST	sfr
033020520266	Sewer				0	PRAIRIE ST	sfr
033020520267	Sewer				0	PRAIRIE ST	sfr
033020520270	Sewer				0	PRAIRIE ST	sfr
033020520400	Sewer				0	PRAIRIE ST	mfr
033020520405	Sewer				0	PRAIRIE ST	
033020520407	Sewer				0	PRAIRIE ST	sfr
033020520408	Sewer				0	PRAIRIE ST	sfr
033020520410	Sewer				0	PRAIRIE ST	mfr
033020520415	Sewer				0	PRAIRIE ST	pub_q
033020520418	Sewer				0	SEQUIM AVE	sfr
033020520422	Sewer				0	HAMMOND ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020520425	Sewer				0	HAMMOND ST	sfr
033020520430	Sewer				0	SOUTH SUNNYSIDE AVE	sfr
033020530100	Sewer				0	WASHINGTON ST	cml
033020530110	Sewer				0	WASHINGTON ST	cml
033020530117	Sewer				0	SUNNYSIDE AVE	cml
033020530125	Sewer				0	SUNNYSIDE AVE	pub
033020540100	Sewer				0	WASHINGTON ST	cml
033020540110	Sewer				0	SUNNYSIDE AVE	cml
033020540112	Sewer				0	SUNNYSIDE AVE	sfr
033020540114	Sewer				0	SUNNYSIDE AVE	sfr
033020540116	Sewer				0	SUNNYSIDE AVE	sfr
033020540120	Sewer				0	SUNNYSIDE AVE	sfr
033020540122	Sewer				0	SPRUCE ST	mfr
033020540124	Sewer				0	SUNNYSIDE AVE	sfr
033020540126	Sewer				0	SUNNYSIDE AVE	sfr
033020540128	Sewer				0	SUNNYSIDE AVE	sfr
033020540134	Sewer				0	SUNNYSIDE AVE	sfr
033020540136	Sewer				0	SUNNYSIDE AVE	sfr
033020549010	Sewer				0	SUNNYSIDE AVE	sfr
033020549020	Sewer				0	FIR ST	sfr
033020550110	Sewer				0	KNAPMAN AVE	mfr
033020550120	Sewer				0	KNAPMAN AVE	sfr
033020550130	Sewer				0	KNAPMAN AVE	sfr
033020550140	Sewer				0	KNAPMAN AVE	sfr
033020550200	Sewer				0	CEDAR ST	sfr
033020550216	Sewer				0	KNAPMAN AVE	sfr
033020550232	Sewer				0	KNAPMAN AVE	sfr
033020550248	Sewer				0	SPRUCE ST	sfr
033020550250	Sewer				0	GOVAN AVE	sfr
033020550260	Sewer				0	SPRUCE ST	sfr
033020550270	Sewer				0	GOVAN AVE	mfr
033020550280	Sewer				0	CEDAR ST	cml
033020550310	Sewer				0	GOVAN AVE	sfr
033020550320	Sewer				0	GOVAN AVE	sfr
033020550330	Sewer				0	GOVAN AVE	sfr
033020550340	Sewer				0	SPRUCE ST	sfr
033020550400	Sewer				0	SPRUCE ST	sfr
033020550407	Sewer				0	KNAPMAN AVE	mfr
033020550414	Sewer				0	KNAPMAN AVE	sfr
033020550421	Sewer				0	KNAPMAN AVE	sfr
033020550428	Sewer				0	KNAPMAN AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020550430	Sewer				0	KNAPMAN AVE	sfr
033020550435	Sewer				0	KNAPMAN AVE	sfr
033020550500	Sewer				0	SPRUCE ST	sfr
033020550505	Sewer				0	KNAPMAN AVE	sfr
033020550510	Sewer				0	KNAPMAN AVE	sfr
033020550515	Sewer				0	KNAPMAN AVE	sfr
033020550520	Sewer				0	KNAPMAN AVE	sfr
033020550525	Sewer				0	KNAPMAN AVE	sfr
033020550530	Sewer				0	KNAPMAN AVE	sfr
033020550535	Sewer				0	KNAPMAN AVE	sfr
033020550540	Sewer				0	FIR ST	sfr
033020550545	Sewer				0	FIR ST	sfr
033020550550	Sewer				0	GOVAN AVE	sfr
033020550555	Sewer				0	GOVAN AVE	sfr
033020550560	Sewer				0	GOVAN AVE	sfr
033020550565	Sewer				0	GOVAN AVE	sfr
033020550570	Sewer				0	GOVAN AVE	sfr
033020550575	Sewer				0	GOVAN AVE	sfr
033020550580	Sewer				0	GOVAN AVE	sfr
033020550585	Sewer				0	SPRUCE ST	sfr
033020550600	Sewer				0	SPRUCE ST	sfr
033020550611	Sewer				0	GOVAN AVE	sfr
033020550622	Sewer				0	GOVAN AVE	sfr
033020550633	Sewer				0	GOVAN AVE	sfr
033020550644	Sewer				0	GOVAN AVE	sfr
033020550655	Sewer				0	GOVAN AVE	sfr
033020550666	Sewer				0	GOVAN AVE	sfr
033020550677	Sewer				0	GOVAN AVE	sfr
033020550688	Sewer				0	GOVAN AVE	sfr
033020560120	Sewer				0	WASHINGTON ST	cml
033020560125	Sewer				0	WASHINGTON ST	cml
033020560140	Sewer				0	WASHINGTON ST	cml
033020560150	Sewer				0	WASHINGTON ST	cml
033020560200	Sewer				0	MATRIOTTI AVE	mfr
033020560220	Sewer				0	MATRIOTTI AVE	mfr
033020560260	Sewer				0	MATRIOTTI AVE	sfr
033020560280	Sewer				0	SPRUCE ST	sfr
033020560300	Sewer				0	MATRIOTTI AVE	sfr
033020560312	Sewer				0	MATRIOTTI AVE	sfr
033020560324	Sewer				0	MATRIOTTI AVE	sfr
033020560336	Sewer				0	SPRUCE ST	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020560348	Sewer				0	SPRUCE ST	sfr
033020560372	Sewer				0	DUNLAP AVE	sfr
033020560384	Sewer				0	DUNLAP AVE	sfr
033020560390	Sewer				0	DUNLAP AVE	sfr
033020560400	Sewer				0	SPRUCE ST	sfr
033020560412	Sewer				0	MATRIOTTI AVE	sfr
033020560424	Sewer				0	MATRIOTTI AVE	mfr
033020560436	Sewer				0	MATRIOTTI AVE	sfr
033020560448	Sewer				0	MATRIOTTI AVE	sfr
033020560450	Sewer				0	MATRIOTTI AVE	sfr
033020560470	Sewer				0	MATRIOTTI AVE	sfr
033020560484	Sewer				0	FIR ST	sfr
033020560500	Sewer				0	MATRIOTTI AVE	sfr
033020560506	Sewer				0	MATRIOTTI AVE	sfr
033020560512	Sewer				0	MATRIOTTI AVE	sfr
033020560518	Sewer				0	MATRIOTTI AVE	sfr
033020560524	Sewer				0	MATRIOTTI AVE	sfr
033020560530	Sewer				0	MATRIOTTI AVE	sfr
033020560536	Sewer				0	MATRIOTTI AVE	sfr
033020560542	Sewer				0	FIR ST	sfr
033020560548	Sewer				0	FIR ST	sfr
033020560551	Sewer				0	DUNLAP AVE	sfr
033020560557	Sewer				0	DUNLAP AVE	sfr
033020560563	Sewer				0	DUNLAP AVE	sfr
033020560569	Sewer				0	DUNLAP AVE	sfr
033020560675	Sewer				0	DUNLAP AVE	sfr
033020560681	Sewer				0	DUNLAP AVE	sfr
033020560687	Sewer				0	SPRUCE ST	mfr
033020570100	Sewer				0	DUNLAP AVE	cml
033020570120	Sewer				0	WASHINGTON PL	cml
033020570140	Sewer				0	CEDAR ST	mfr
033020570200	Sewer				0	CEDAR ST	sfr
033020570211	Sewer				0	DUNLAP AVE	sfr
033020570222	Sewer				0	DUNLAP AVE	sfr
033020570233	Sewer				0	DUNLAP AVE	mfr
033020570244	Sewer				0	SPRUCE	
033020570255	Sewer				0	RYSER AVE	sfr
033020570266	Sewer				0	RYSER AVE	sfr
033020570277	Sewer				0	CEDAR ST	sfr
033020570400	Sewer				0	SPRUCE ST	sfr
033020570406	Sewer				0	DUNLAP AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020570412	Sewer				0	DUNLAP AVE	sfr
033020570418	Sewer				0	DUNLAP AVE	sfr
033020570424	Sewer				0	DUNLAP AVE	sfr
033020570430	Sewer				0	DUNLAP AVE	sfr
033020570436	Sewer				0	DUNLAP AVE	sfr
033020570442	Sewer				0	DUNLAP AVE	sfr
033020570448	Sewer				0	FIR ST	sfr
033020570454	Sewer				0	RYSER AVE	sfr
033020570460	Sewer				0	RYSER AVE	sfr
033020570466	Sewer				0	RYSER AVE	sfr
033020570472	Sewer				0	RYSER AVE	sfr
033020570478	Sewer				0	RYSER AVE	mfr
033020570484	Sewer				0	RYSER AVE	sfr
033020570490	Sewer				0	SPRUCE ST	mfr
033020590100	Sewer				0	WASHINGTON PL	mfr
033020590130	Sewer				0	CEDAR ST	mfr
033020590140	Sewer				0	CEDAR ST	mfr
033020590150	Sewer				0	CEDAR ST	mfr
033020590160	Sewer				0	BROWN RD	cml
033020590200	Sewer				0	CEDAR ST	sfr
033020590210	Sewer				0	CEDAR ST	sfr
033020590220	Sewer				0	CEDAR ST	sfr
033020590230	Sewer				0	BROWN RD	sfr
033020590240	Sewer				0	BROWN RD	sfr
033020590250	Sewer				0	SPRUCE ST	sfr
033020590260	Sewer				0	SPRUCE ST	sfr
033020590270	Sewer				0	SPRUCE ST	sfr
033020590300	Sewer				0	SPRUCE ST	sfr
033020590305	Sewer				0	SPRUCE ST	sfr
033020590310	Sewer				0	SPRUCE ST	sfr
033020590320	Sewer				0	SPRUCE ST	sfr
033020590330	Sewer				0	BROWN RD	sfr
033020590340	Sewer				0	ALDER ST	sfr
033020590350	Sewer				0	ALDER ST	sfr
033020590360	Sewer				0	ALDER ST	sfr
033020590400	Sewer				0	ALDER ST	sfr
033020590410	Sewer				0	ALDER ST	sfr
033020590420	Sewer				0	ALDER ST	sfr
033020590430	Sewer				0	BROWN RD	sfr
033020590440	Sewer				0	BROWN RD	sfr
033020590450	Sewer				0	FIR ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020590460	Sewer				0	FIR ST	sfr
033020590470	Sewer				0	FIR ST	sfr
033020600100	Sewer				0	RYSER AVE	sfr
033020600130	Sewer				0	CEDAR ST	sfr
033020600160	Sewer				0	SPRUCE ST	sfr
033020600190	Sewer				0	RYSER AVE	mfr
033020600200	Sewer				0	RYSER AVE	sfr
033020600225	Sewer				0	SPRUCE ST	sfr
033020600250	Sewer				0	ALDER ST	sfr
033020600275	Sewer				0	RYSER AVE	sfr
033020600300	Sewer				0	ALDER ST	sfr
033020600320	Sewer				0	ALDER ST	sfr
033020600360	Sewer				0	FIR ST	sfr
033020600380	Sewer				0	RYSER AVE	mfr
033020620100	Sewer				0	DUNLAP AVE	sfr
033020620108	Sewer				0	WILLOW ST	sfr
033020620116	Sewer				0	WILLOW ST	sfr
033020620124	Sewer				0	WILLOW ST	sfr
033020620132	Sewer				0	WILLOW ST	sfr
033020620140	Sewer				0	WILLOW ST	sfr
033020620148	Sewer				0	WILLOW ST	sfr
033020620156	Sewer				0	FIR ST	sfr
033020620164	Sewer				0	FIR ST	sfr
033020620172	Sewer				0	FIR ST	sfr
033020620180	Sewer				0	FIR ST	sfr
033020620188	Sewer				0	FIR ST	sfr
033020620193	Sewer				0	FIR ST	sfr
033020620198	Sewer				0	DUNLAP AVE	sfr
033020620248	Sewer				0	WILLOW ST	sfr
033020620255	Sewer				0	WILLOW ST	sfr
033020620269	Sewer				0	WILLOW ST	sfr
033020620276	Sewer				0	WILLOW ST	sfr
033020620283	Sewer				0	WILLOW ST	sfr
033020630100	Sewer				0	FIR ST	sfr
033020630106	Sewer				0	FIR ST	sfr
033020630112	Sewer				0	FIR ST	sfr
033020630118	Sewer				0	FIR ST	sfr
033020630124	Sewer				0	FIR ST	sfr
033020630130	Sewer				0	FIR ST	sfr
033020630136	Sewer				0	FIR ST	sfr
033020630142	Sewer				0	HALLER AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020630148	Sewer				0	HALLER AVE	sfr
033020630154	Sewer				0	ALDER ST	sfr
033020630160	Sewer				0	ALDER ST	sfr
033020630166	Sewer				0	ALDER ST	sfr
033020630172	Sewer				0	ALDER ST	sfr
033020630178	Sewer				0	ALDER ST	sfr
033020630184	Sewer				0	ALDER ST	sfr
033020630190	Sewer				0	ALDER ST	sfr
033020630200	Sewer				0	HALLER AVE	sfr
033020630206	Sewer				0	FIR ST	sfr
033020630212	Sewer				0	FIR ST	sfr
033020630216	Sewer				0	FIR ST	sfr
033020630224	Sewer				0	FIR ST	sfr
033020630230	Sewer				0	FIR ST	sfr
033020630236	Sewer				0	FIR ST	sfr
033020630242	Sewer				0	BLAKE AVE	sfr
033020630248	Sewer				0	BLAKE AVE	sfr
033020630254	Sewer				0	ALDER ST	sfr
033020630260	Sewer				0	ALDER ST	sfr
033020630266	Sewer				0	ALDER ST	sfr
033020630272	Sewer				0	ALDER ST	sfr
033020630284	Sewer				0	ALDER ST	sfr
033020630290	Sewer				0	HALLER AVE	sfr
033020640100	Sewer				0	WASHINGTON ST	ldg
033020650102	Sewer				0	ALDER ST	sfr
033020650104	Sewer				0	ALDER ST	sfr
033020650106	Sewer				0	ALDER ST	sfr
033020650108	Sewer				0	ALDER ST	sfr
033020650110	Sewer				0	ALDER ST	sfr
033020650112	Sewer				0	ALDER ST	sfr
033020650114	Sewer				0	ALDER ST	sfr
033020650116	Sewer				0	ALDER ST	sfr
033020650118	Sewer				0	SPRUCE ST	sfr
033020650120	Sewer				0	SPRUCE ST	sfr
033020650122	Sewer				0	SPRUCE ST	sfr
033020650124	Sewer				0	SPRUCE ST	sfr
033020650126	Sewer				0	SPRUCE ST	sfr
033020650128	Sewer				0	SPRUCE ST	sfr
033020650130	Sewer				0	SPRUCE ST	sfr
033020650132	Sewer				0	SPRUCE ST	sfr
033020650202	Sewer				0	HALLER AVE	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020650204	Sewer				0	ALDER ST	sfr
033020650208	Sewer				0	ALDER ST	sfr
033020650210	Sewer				0	ALDER ST	sfr
033020650212	Sewer				0	ALDER ST	sfr
033020650214	Sewer				0	ALDER ST	sfr
033020650216	Sewer				0	BLAKE AVE	sfr
033020650218	Sewer				0	SPRUCE ST	sfr
033020650220	Sewer				0	SPRUCE ST	sfr
033020650222	Sewer				0	SPRUCE ST	sfr
033020650224	Sewer				0	SPRUCE ST	sfr
033020650226	Sewer				0	SPRUCE ST	sfr
033020650228	Sewer				0	SPRUCE ST	sfr
033020650230	Sewer				0	SPRUCE ST	sfr
033020650232	Sewer				0	SPRUCE ST	sfr
033020670000	Sewer				0	SEQUIM AVE	mfr
033020680010	Sewer				0	SPRUCE ST	sfr
033020680020	Sewer				0	SPRUCE ST	sfr
033020680030	Sewer				0	SPRUCE ST	sfr
033020680050	Sewer				0	SPRUCE ST	sfr
033020680060	Sewer				0	SPRUCE ST	sfr
033020680070	Sewer				0	SPRUCE ST	sfr
033020680080	Sewer				0	SPRUCE ST	sfr
033020680090	Sewer				0	SPRUCE ST	sfr
033020680100	Sewer				0	SPRUCE ST	sfr
033020680110	Sewer				0	SPRUCE ST	sfr
033020680120	Sewer				0	SPRUCE ST	sfr
033020680130	Sewer				0	SPRUCE ST	sfr
033020680140	Sewer				0	SPRUCE ST	sfr
033020680150	Sewer				0	SPRUCE ST	sfr
033020680160	Sewer				0	SPRUCE ST	sfr
033020690010	Sewer				0	CEDAR ST	sfr
033020690020	Sewer				0	CEDAR ST	sfr
033020690030	Sewer				0	CEDAR ST	sfr
033020690040	Sewer				0	E CEDAR ST	sfr
033020690050	Sewer				0	CEDAR ST	sfr
033020690060	Sewer				0	CEDAR ST	sfr
033020690070	Sewer				0	CEDAR ST	sfr
033020690080	Sewer				0	CEDAR ST	sfr
033020700090	Sewer				0	CEDAR ST	sfr
033020700100	Sewer				0	CEDAR ST	sfr
033020700110	Sewer				0	CEDAR ST	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020700120	Sewer				0	CEDAR ST	sfr
033020700130	Sewer				0	CEDAR ST	sfr
033020700140	Sewer				0	CEDAR ST	sfr
033020700160	Sewer				0	CEDAR ST	sfr
033020710010	Sewer				0	CEDAR ST	mfr
033020710020	Sewer				0	CEDAR ST	mfr
033020710050	Sewer				0	CEDAR ST	mfr
033020710070	Sewer				0	CEDAR ST	mfr
033020710080	Sewer				0	CEDAR ST	mfr
033020710100	Sewer				0	CEDAR ST	mfr
033020710110	Sewer				0	CEDAR ST	mfr
033020719010	Sewer				0	CEDAR ST	mfr
033020719020	Sewer				0	CEDAR ST	mfr
033020719030	Sewer				0	CEDAR ST	mfr
033020720010	Sewer				0	HALLER AVE	mfr
033020720050	Sewer				0	WASHINGTON PLACE	mfr
033020730010	Sewer				0	FIR ST	sfr
033020730020	Sewer				0	FIR ST	sfr
033020730030	Sewer				0	FIR ST	sfr
033020730040	Sewer				0	FIR ST	sfr
033020730050	Sewer				0	FIR ST	sfr
033020730060	Sewer				0	FIR ST	sfr
033020730070	Sewer				0	FIR ST	sfr
033020730080	Sewer				0	FIR ST	sfr
033020730090	Sewer				0	FIR ST	sfr
033020730100	Sewer				0	FIR ST	sfr
033020730110	Sewer				0	FIR ST	sfr
033020730130	Sewer				0	FIR ST	sfr
033020730160	Sewer				0	FIR ST	sfr
033020730170	Sewer				0	WILLOW ST	sfr
033020730180	Sewer				0	WILLOW ST	sfr
033020730190	Sewer				0	WILLOW ST	sfr
033020730200	Sewer				0	WILLOW ST	sfr
033020730210	Sewer				0	WILLOW ST	sfr
033020730220	Sewer				0	WILLOW ST	sfr
033020730230	Sewer				0	WILLOW ST	sfr
033020730240	Sewer				0	WILLOW ST	sfr
033020730250	Sewer				0	WILLOW ST	sfr
033020730260	Sewer				0	WILLOW ST	sfr
033020730270	Sewer				0	WILLOW ST	sfr
033020730280	Sewer				0	WILLOW ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020730290	Sewer				0	WILLOW ST	sfr
033020730300	Sewer				0	WILLOW ST	sfr
033020730310	Sewer				0	WILLOW ST	sfr
033020730320	Sewer				0	WILLOW ST	sfr
033020740010	Sewer				0	WASHINGTON ST STE E	cml
033020740020	Sewer				0	WASHINGTON ST	cml
033020740030	Sewer				0	WASHINGTON ST	cml
033020740040	Sewer				0	WASHINGTON ST	cml
033020740050	Sewer				0	WASHINGTON ST	cml
033020740060	Sewer				0	WASHINGTON ST	cml
033020750330	Sewer				0	WILLOW ST	sfr
033020750350	Sewer				0	WILLOW ST	sfr
033020750360	Sewer				0	WILLOW ST	sfr
033020750370	Sewer				0	WILLOW ST	sfr
033020750380	Sewer				0	WILLOW ST	sfr
033020750390	Sewer				0	WILLOW ST	sfr
033020750400	Sewer				0	WILLOW ST	sfr
033020750410	Sewer				0	WILLOW ST	sfr
033020750420	Sewer				0	WILLOW ST	sfr
033020750430	Sewer				0	WILLOW ST	sfr
033020750440	Sewer				0	WILLOW ST	sfr
033020750450	Sewer				0	WILLOW ST	sfr
033020750460	Sewer				0	WILLOW ST	sfr
033020750470	Sewer				0	WILLOW ST	sfr
033020750480	Sewer				0	OAK ST	sfr
033020750490	Sewer				0	OAK ST	sfr
033020750500	Sewer				0	OAK ST	sfr
033020750510	Sewer				0	OAK ST	sfr
033020750520	Sewer				0	OAK ST	sfr
033020750530	Sewer				0	OAK ST	sfr
033020750550	Sewer				0	OAK ST	sfr
033020750560	Sewer				0	OAK ST	sfr
033020750570	Sewer				0	OAK ST	sfr
033020750580	Sewer				0	OAK ST	sfr
033020750590	Sewer				0	OAK ST	sfr
033020750610	Sewer				0	OAK ST	sfr
033020750620	Sewer				0	OAK ST	sfr
033020750630	Sewer				0	OAK ST	sfr
033020750640	Sewer				0	OAK ST	sfr
033020750650	Sewer				0	OAK ST	sfr
033020750660	Sewer				0	OAK ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020750670	Sewer				0	OAK ST	sfr
033020750680	Sewer				0	OAK ST	sfr
033020750697	Sewer				0	E OAK ST	sfr
033020750710	Sewer				0	OAK TREE CIR	sfr
033020750730	Sewer				0	OAK TREE CIR	sfr
033020750740	Sewer				0	OAK TREE CIR	sfr
033020750750	Sewer				0	OAK TREE CIR	sfr
033020750760	Sewer				0	OAK TREE CIR	sfr
033020770000	Sewer				0	OAK TREE RIDGE	rd
033020770770	Sewer				0	OAK TREE RIDGE	sfr
033020770780	Sewer				0	OAK TREE RIDGE	sfr
033020770790	Sewer				0	OAK TREE RIDGE	sfr
033020770800	Sewer				0	OAK TREE RIDGE	sfr
033020770810	Sewer				0	OAK TREE RIDGE	sfr
033020770820	Sewer				0	OAK TREE RIDGE	sfr
033020770830	Sewer				0	OAK TREE RIDGE	sfr
033020770840	Sewer				0	OAK TREE RIDGE	sfr
033020770850	Sewer				0	OAK TREE RIDGE	sfr
033020770860	Sewer				0	OAK TREE RIDGE	sfr
033020770870	Sewer				0	OAK TREE RIDGE	sfr
033020770880	Sewer				0	OAK TREE RIDGE	sfr
033020770890	Sewer				0	OAK TREE RIDGE	sfr
033020770900	Sewer				0	OAK TREE RIDGE	sfr
033020770910	Sewer				0	OAK TREE RIDGE	sfr
033020770920	Sewer				0	OAK TREE RIDGE	sfr
033020770930	Sewer				0	OAK TREE RIDGE	sfr
033020770940	Sewer				0	OAK TREE RIDGE	sfr
033020770950	Sewer				0	OAK WOOD DR	sfr
033020770960	Sewer				0	OAK WOOD DR	sfr
033020770970	Sewer				0	OAK WOOD DR	sfr
033020770990	Sewer				0	OAK WOOD DR	sfr
033020771000	Sewer				0	OAK WOOD DR	sfr
033020771010	Sewer				0	OAK VIEW PL	sfr
033020771020	Sewer				0	OAK VIEW PL	sfr
033020771030	Sewer				0	OAK VIEW PL	sfr
033020771040	Sewer				0	OAK VIEW PL	sfr
033020771050	Sewer				0	OAK VIEW PL	sfr
033020787000	Sewer				0	WASHINGTON PL	mfr
033020790030	Sewer				0	CENTER PARK WAY	cml
033020790040	Sewer				0	CENTER PARK WAY	cml
033020790050	Sewer				0	CENTER PARK WAY	cml

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020810010	Sewer				0	ELK HORN LP	sfr
033020810050	Sewer				0	ELK HORN LP	sfr
033020810060	Sewer				0	ELK HORN LP	sfr
033020810070	Sewer				0	ELK HORN LP	sfr
033020810080	Sewer				0	ELK HORN LP	sfr
033020810110	Sewer				0	ELK HORN LP	sfr
033020810120	Sewer				0	ELK HORN LP	sfr
033020810130	Sewer				0	ELK HORN LP	sfr
033020810150	Sewer				0	ELK HORN LP	sfr
033020810180	Sewer				0	ELK HORN LP	sfr
033020810190	Sewer				0	ELK HORN LP	sfr
033020810200	Sewer				0	ELK HORN LP	sfr
033020810210	Sewer				0	ELK HORN LP	sfr
033020810220	Sewer				0	ELK HORN LP	sfr
033020810230	Sewer				0	ELK HORN LP	sfr
033020820010	Sewer				0	KNAPMAN AVE	sfr
033020820020	Sewer				0	KNAPMAN AVE	sfr
033020820030	Sewer				0	KNAPMAN AVE	sfr
033020820070	Sewer				0	WILLOW ST	sfr
033020820090	Sewer				0	WILLOW ST	sfr
033020820160	Sewer				0	WILLOW ST	sfr
033020820170	Sewer				0	WILLOW ST	sfr
033020820200	Sewer				0	KNAPMAN AVE	sfr
033020820220	Sewer				0	WILLOW ST	sfr
033020830000	Sewer				0	CEDAR ST	mfr
033020840010	Sewer				0	MAPLE ST	mfr
033020840020	Sewer				0	MAPLE ST	mfr
033020840030	Sewer				0	MAPLE ST	mfr
033020840040	Sewer				0	MAPLE ST	mfr
033020840050	Sewer				0	MAPLE ST	mfr
033020840060	Sewer				0	MAPLE ST	mfr
033020840070	Sewer				0	MAPLE ST	mfr
033020840080	Sewer				0	MAPLE ST	mfr
033020840090	Sewer				0	MAPLE ST	mfr
033020840100	Sewer				0	MAPLE ST	mfr
033020840110	Sewer				0	MAPLE ST	mfr
033020840120	Sewer				0	MAPLE ST	mfr
033020840130	Sewer				0	MAPLE ST	mfr
033020840140	Sewer				0	MAPLE ST	mfr
033020840150	Sewer				0	MAPLE ST	mfr
033021229050	Sewer				0	RHODEFER RD	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021229070	Sewer				0	RHODEFER RD	sfr
033021229080	Sewer				0	BELL MEADOW LN	sfr
033021229090	Sewer				0	RHODEFER RD	mfr
033021229110	Sewer				0	RHODEFER RD	sfr
033021229130	Sewer				0	RHODEFER RD	mfr
033021229150	Sewer				0	RHODEFER RD	sfr
033021329050	Sewer				0	OLD COYOTE WY	res_u
033021329080	Sewer				0	TORRES CRT	sfr
033021329090	Sewer				0	TORRES CRT	sfr
033021329100	Sewer				0	TORRES CRT	sfr
033021329110	Sewer				0	TORRES CRT	sfr
033021329120	Sewer				0	TORRES CRT	sfr
033021329130	Sewer				0	TORRES CRT	sfr
033021329140	Sewer				0	TORRES CRT	sfr
033021330012	Sewer				0	SEQUIM BAY RD	sfr
033021330018	Sewer				0	WASHINGTON STREET	cml
033021430000	Sewer				0	SEQUIM BAY RD	mh_ag
033021510010	Sewer				0	ELK LOOP	sfr
033021510020	Sewer				0	ELK LOOP	mh
033021510030	Sewer				0	ELK LOOP	sfr
033021510040	Sewer				0	ELK LOOP	mh
033021510050	Sewer				0	ELK LOOP	sfr
033021510070	Sewer				0	ELK LOOP	sfr
033021510090	Sewer				0	ELK LOOP	sfr
033021510100	Sewer				0	ELK LOOP	mh
033021510110	Sewer				0	ELK LOOP	sfr
033021510120	Sewer				0	ELK LOOP	mh
033021510130	Sewer				0	ELK LOOP	sfr
033021510140	Sewer				0	ELK LOOP	mh
033021510160	Sewer				0	ELK LOOP	sfr
033021510170	Sewer				0	ELK LOOP	mh
033021510180	Sewer				0	ELK LOOP	mh
033021510190	Sewer				0	ELK LOOP	mh
033021510200	Sewer				0	ELK LOOP	mh
033021510210	Sewer				0	ELK LOOP	mh
033021510220	Sewer				0	ELK LOOP	mh
033021510230	Sewer				0	ELK LOOP	mh
033021510240	Sewer				0	ELK LOOP	mh
033021510250	Sewer				0	ELK LOOP	mh
033021510260	Sewer				0	ELK LOOP	mh
033021510270	Sewer				0	ELK LOOP	mh

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021510290	Sewer				0	ELK LOOP	mh
033021510310	Sewer				0	ELK LOOP	mh
033021510320	Sewer				0	ELK LOOP	sfr
033021510330	Sewer				0	ELK LOOP	mh
033021510340	Sewer				0	ELK LOOP	mh
033021510350	Sewer				0	ELK LOOP	mh
033021510360	Sewer				0	ELK LOOP	mh
033021520020	Sewer				0	MORGISON LP	sfr
033021520060	Sewer				0	MORGISON LP	sfr
033021520240	Sewer				0	MORGISON LP	sfr
033021520310	Sewer				0	MORGISON LP	sfr
033021520510	Sewer				0	MORGISON LP	sfr
033021530010	Sewer				0	FAIR WEATHER DR	sfr
033021530020	Sewer				0	FAIR WEATHER DR	sfr
033021530410	Sewer				0	STRATUS LP	mfr
033021530420	Sewer				0	STRATUS LP	mfr
033021530470	Sewer				0	STRATUS LP	sfr
033021530480	Sewer				0	STRATUS LP	sfr
033021530490	Sewer				0	STRATUS LP	sfr
033021530500	Sewer				0	STRATUS LP	sfr
033021530510	Sewer				0	STRATUS LP	sfr
033021530520	Sewer				0	STRATUS LP	sfr
033021530530	Sewer				0	STRATUS LP	sfr
033021530540	Sewer				0	STRATUS LP	sfr
033021530590	Sewer				0	STRATUS LP	mfr
033021530600	Sewer				0	STRATUS LP	mfr
033021530610	Sewer				0	NIMBUS LN	mfr
033021530620	Sewer				0	NIMBUS LP	mfr
033021540440	Sewer				0	BLUE GLACIER LP	sfr
033021540450	Sewer				0	BLUE GLACIER LP	sfr
033021550100	Sewer				0	BROADMOOR ST	sfr
033021550210	Sewer				0	BROADMOOR ST	sfr
033027219080	Sewer				0	SEQUIM BAY RD	sfr
033027420000	Sewer				0	SEQUIM BAY RD	pub
033027420100	Sewer				0	SEQUIM BAY RD	cml
033027541220	Sewer				0	WATER VIEW DR	sfr
033027541370	Sewer				0	KEELER RD	sfr
033027541390	Sewer				0	RIDGEFIELD RD	sfr
033028129050	Sewer				0	BELL BOTTOM RD	sfr
033028129060	Sewer				0	BELL BOTTOM RD	sfr
033028220500	Sewer				0	WASHINGTON ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028338030	Sewer				0	ELK PASS RD	sfr
033028500010	Sewer				0	ELK PASS RD	sfr
033028500180	Sewer				0	ELK PASS RD	sfr
033028510120	Sewer				0	SOLANA PKWY	sfr
033028510200	Sewer				0	FLYING CLOUD ST	sfr
033028510310	Sewer				0	TAMERLANE LP	sfr
033028510400	Sewer				0	TAMERLANE LP	sfr
033028510470	Sewer				0	SOLANA PKWY	pub_q
033028520000	Sewer				0		vac
033028520030	Sewer				0	HAWTHORN CT	sfr
033028520040	Sewer				0	HAWTHORN CT	sfr
033028520050	Sewer				0	HAWTHORN CT	sfr
033028520060	Sewer				0	HAWTHORN CT	sfr
033028520090	Sewer				0	REDBUD CT	sfr
033028520100	Sewer				0	REDBUD CT	sfr
033028520110	Sewer				0	REDBUD CT	sfr
033028520120	Sewer				0	REDBUD CT	sfr
033028520130	Sewer				0	REDBUD CT	sfr
033028520140	Sewer				0	REDBUD CT	sfr
033028520150	Sewer				0	REDBUD CT	sfr
033028520160	Sewer				0	REDBUD CT	sfr
033028520170	Sewer				0	TANOAK CT	sfr
033028520180	Sewer				0	TANOAK CT	sfr
033028520190	Sewer				0	TANOAK CT	sfr
033028520200	Sewer				0	TANOAK CT	sfr
033028520210	Sewer				0	TANOAK CT	sfr
033028520220	Sewer				0	TANOAK CT	sfr
033028520240	Sewer				0	TANOAK CT	sfr
033028520250	Sewer				0	TANOAK CT	
033028520260	Sewer				0	TANOAK CT	sfr
033028530720	Sewer				0	LOFGRIN RD	sfr
033028530750	Sewer				0	LOFGRIN RD	sfr
033028530760	Sewer				0	LOFGRIN RD	sfr
033028530780	Sewer				0	PINEHURST LP	sfr
033028530790	Sewer				0	PINEHURST LP	sfr
033028530800	Sewer				0	PINEHURST LP	sfr
033028530810	Sewer				0	PINEHURST LP	sfr
033028530830	Sewer				0	PINEHURST LP	sfr
033028530840	Sewer				0	PINEHURST LP	sfr
033028530850	Sewer				0	PINEHURST LP	sfr
033028530860	Sewer				0	PINEHURST LP	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028530870	Sewer				0	PINEHURST LP	sfr
033028530880	Sewer				0	KEELER RD	
033029120000	Sewer				0	MILLER RD	sfr
033029120350	Sewer				0	MILLER RD	sfr
033029120400	Sewer				0	MILLER RD	sfr
033029120450	Sewer				0	MILLER RD	sfr
033029120550	Sewer				0	MILLER RD	sfr
033029130000	Sewer				0	CLARA CREST LN	sfr
033029130200	Sewer				0	CLARA CREST LN	sfr
033029130250	Sewer				0	MILLER RD	sfr
033029130260	Sewer				0	MILLER RD	sfr
033029130270	Sewer				0	MILLER RD	sfr
033029130290	Sewer				0	CLARA CREST LN	sfr
033029139010	Sewer				0	FOX HOLLOW RD	sfr
033029139020	Sewer				0	FOX HOLLOW RD	sfr
033029139030	Sewer				0	FOX HOLLOW RD	sfr
033029139050	Sewer				0	FOX HOLLOW RD	sfr
033029139060	Sewer				0	FOX HOLLOW RD	sfr
033029139070	Sewer				0	FOX HOLLOW RD	sfr
033029139100	Sewer				0	OWLS NEST RD	sfr
033029139110	Sewer				0	FOX HOLLOW RD	sfr
033029139140	Sewer				0	OWLS NEST RD	sfr
033029139190	Sewer				0	MILLER RD	sfr
033029139200	Sewer				0	MILLER RD	sfr
033029139210	Sewer				0	FOX HOLLOW RD	sfr
033029139260	Sewer				0	FOX HOLLOW RD	sfr
033029139270	Sewer				0	DOE RUN RD	sfr
033029149010	Sewer				0	FOX HOLLOW RD	sfr
033029149030	Sewer				0	OWLS NEST RD	sfr
033029149040	Sewer				0	OWLS NEST RD	sfr
033029149045	Sewer				0	OWLS NEST RD	sfr
033029149055	Sewer				0	FOX HOLLOW RD	sfr
033029149065	Sewer				0	FOX HOLLOW RD	sfr
033029149085	Sewer				0	OWLS NEST RD	sfr
033029149090	Sewer				0	FOX HOLLOW RD	sfr
033029149130	Sewer				0	OWLS NEST RD	sfr
033029149140	Sewer				0	RAVENS RIDGE RD	sfr
033029149150	Sewer				0	OWLS NEST RD	sfr
033029149170	Sewer				0	RAVENS RIDGE RD	sfr
033029149190	Sewer				0	DOE RUN RD	sfr
033029149200	Sewer				0	DOE RUN RD	sfr

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029149210	Sewer				0	DOE RUN RD	sfr
033029149230	Sewer				0	DOE RUN RD	sfr
033029149240	Sewer				0	DOE RUN RD	sfr
033029149250	Sewer				0	FOX HOLLOW RD	sfr
033029149270	Sewer				0	FOX HOLLOW RD	sfr
033029149280	Sewer				0	OWLS NEST RD	sfr
033029149290	Sewer				0	OWLS NEST RD	sfr
033029149300	Sewer				0	DOE RUN RD	sfr
033029149320	Sewer				0	DOE RUN RD	sfr
033029149330	Sewer				0	OWLS NEST RD	sfr
033029210000	Sewer				0	MILLER RD	sfr
033029240050	Sewer				0	MILLER RD	sfr
033029249040	Sewer				0	MILLER RD	sfr
033029249060	Sewer				0	FOX HOLLOW RD	sfr
033029249090	Sewer				0	FOX HOLLOW RD	sfr
033029249100	Sewer				0	FOX HOLLOW RD	sfr
033029249130	Sewer				0	FOX HOLLOW RD	sfr
033029249140	Sewer				0	FOX HOLLOW RD	sfr
033029319010	Sewer				0	OWLS NEST RD	sfr
033029319020	Sewer				0	OWLS NEST RD	sfr
033029319050	Sewer				0	FOX HOLLOW RD	sfr
033029319060	Sewer				0	FOX HOLLOW RD	sfr
033029319090	Sewer				0	OWLS NEST RD	sfr
033029319100	Sewer				0	OWLS NEST RD	sfr
033029319120	Sewer				0	RAVENS RIDGE RD	sfr
033029319130	Sewer				0	FOX HOLLOW RD	sfr
033029319160	Sewer				0	OWLS NEST RD	sfr
033029319180	Sewer				0	FOX HOLLOW RD	sfr
033029319200	Sewer				0	FOX HOLLOW RD	sfr
033029319210	Sewer				0	FOX HOLLOW RD	sfr
033029319230	Sewer				0	RAVENS RIDGE RD	sfr
033029319250	Sewer				0	FOX HOLLOW RD	sfr
033029319270	Sewer				0	FOX HOLLOW RD	sfr
033029319310	Sewer				0	FOX HOLLOW RD	sfr
033029320100	Sewer				0	SEQUIM AVE	sfr
033029320400	Sewer				0	HOLLEMAN WY	sfr
033029329030	Sewer				0	HOLLEMAN WY	sfr
033029339010	Sewer				0	HAPPY VALLEY RD	sfr
033029349010	Sewer				0	QUAILS ROOST RD	sfr
033029349020	Sewer				0	QUAILS ROOST RD	sfr
033029349050	Sewer				0	RAVENS RIDGE RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029349090	Sewer				0	RAVENS RIDGE RD	sfr
033029349100	Sewer				0	RAVENS RIDGE RD	sfr
033029349130	Sewer				0	FOX HOLLOW RD	sfr
033029349140	Sewer				0	FOX HOLLOW RD	sfr
033029349150	Sewer				0	FOX HOLLOW RD	sfr
033029349180	Sewer				0	FOX HOLLOW RD	sfr
033029349190	Sewer				0	FOX HOLLOW RD	sfr
033029349220	Sewer				0	FOX HOLLOW RD	sfr
033029349250	Sewer				0	RAVENS RIDGE RD	sfr
033029349260	Sewer				0	RAVENS RIDGE RD	sfr
033029349270	Sewer				0	QUAILS ROOST RD	sfr
033029349280	Sewer				0	FOX HOLLOW RD	sfr
033029349320	Sewer				0	RAVENS RIDGE RD	sfr
033029349330	Sewer				0	RAVENS RIDGE RD	sfr
033029349340	Sewer				0	RAVENS RIDGE RD	sfr
033029349360	Sewer				0	FOX HOLLOW RD	sfr
033029349390	Sewer				0	DOE RUN RD	sfr
033029349410	Sewer				0	RAVENS RIDGE RD	sfr
033029419010	Sewer				0	QUAILS ROOST RD	sfr
033029419020	Sewer				0	QUAILS ROOST RD	sfr
033029419030	Sewer				0	QUAILS ROOST RD	sfr
033029419090	Sewer				0	FAWN LN	sfr
033029419100	Sewer				0	QUAILS ROOST RD	sfr
033029419130	Sewer				0	DOE RUN RD	sfr
033029419160	Sewer				0	QUAILS ROOST RD	sfr
033029419180	Sewer				0	FAWN LN	sfr
033029419190	Sewer				0	RAVENS RIDGE RD	sfr
033029419200	Sewer				0	RAVENS RIDGE RD	sfr
033029419210	Sewer				0	FAWN LN	sfr
033029419220	Sewer				0	FAWN LN	sfr
033029419240	Sewer				0	DOE RUN RD	sfr
033029419250	Sewer				0	ELK PASS RD	sfr
033029419260	Sewer				0	ELK PASS RD	sfr
033029419310	Sewer				0	RAVENS RIDGE RD	sfr
033029419330	Sewer				0	FAWN LN	sfr
033029419340	Sewer				0	FAWN LN	sfr
033029419350	Sewer				0	DOE RUN RD	sfr
033029419360	Sewer				0	DOE RUN RD	sfr
033029419370	Sewer				0	DOE RUN RD	sfr
033029419380	Sewer				0	DOE RUN RD	sfr
033029419400	Sewer				0	QUAILS ROOST RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029419410	Sewer				0	HAWKS WY	sfr
033029419420	Sewer				0	DOE RUN RD	sfr
033029419430	Sewer				0	QUAILS ROOST RD	sfr
033029419440	Sewer				0	HAWKS WY	sfr
033029419460	Sewer				0	DOE RUN RD	sfr
033029429010	Sewer				0	QUAILS ROOST RD	sfr
033029429020	Sewer				0	QUAILS ROOST RD	sfr
033029429030	Sewer				0	QUAILS ROOST RD	sfr
033029429050	Sewer				0	FAWN LN	sfr
033029429060	Sewer				0	FAWN LN	sfr
033029429080	Sewer				0	RAVENS RIDGE RD	sfr
033029429090	Sewer				0	RAVENS RIDGE RD	sfr
033029429100	Sewer				0	FAWN LN	sfr
033029429120	Sewer				0	RAVENS RIDGE RD	sfr
033029429130	Sewer				0	RAVENS RIDGE RD	sfr
033029429150	Sewer				0	FAWN LN	sfr
033029429160	Sewer				0	OWLS NEST RD	sfr
033029429230	Sewer				0	RAVENS RIDGE RD	sfr
033029429240	Sewer				0	FAWN LN	sfr
033029429250	Sewer				0	OWLS NEST RD	sfr
033029429260	Sewer				0	OWLS NEST RD	sfr
033029429270	Sewer				0	RAVENS RIDGE RD	sfr
033029429280	Sewer				0	RAVENS RIDGE RD	sfr
033029429290	Sewer				0	OWLS NEST RD	sfr
033029429300	Sewer				0	OWLS NEST RD	sfr
033029429310	Sewer				0	RAVENS RIDGE RD	sfr
033029429320	Sewer				0	RAVENS RIDGE RD	sfr
033029429330	Sewer				0	FAWN LN	sfr
033029429360	Sewer				0	QUAILS ROOST RD	sfr
033029429370	Sewer				0	QUAILS ROOST RD	sfr
033029429380	Sewer				0	RAVENS RIDGE RD	sfr
033029429390	Sewer				0	FAWN LN	sfr
033029429400	Sewer				0	OWLS NEST RD	sfr
033029429410	Sewer				0	OWLS NEST RD	sfr
033029439010	Sewer				0	COVEY RUN LN	sfr
033029439020	Sewer				0	COVEY RUN LN	sfr
033029439030	Sewer				0	HAWKS WY	sfr
033029439050	Sewer				0	DOE RUN RD	sfr
033029439060	Sewer				0	QUAILS ROOST RD	sfr
033029439070	Sewer				0	QUAILS ROOST RD	sfr
033029439090	Sewer				0	QUAILS ROOST RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029439100	Sewer				0	QUAILS ROOST RD	sfr
033029439110	Sewer				0	DOE RUN RD	sfr
033029439130	Sewer				0	DOE RUN RD	sfr
033029439140	Sewer				0	DOE RUN RD	sfr
033029439150	Sewer				0	QUAILS ROOST RD	sfr
033029439160	Sewer				0	COVEY RUN LN	sfr
033029439180	Sewer				0	DOE RUN RD	sfr
033029439190	Sewer				0	DOE RUN RD	sfr
033029439200	Sewer				0	DOE RUN RD	sfr
033029439210	Sewer				0	DOE RUN RD	sfr
033029439220	Sewer				0	DOE RUN RD	sfr
033029439230	Sewer				0	DOE RUN RD	sfr
033029439250	Sewer				0	DOE RUN RD	sfr
033029439260	Sewer				0	DOE RUN RD	sfr
033029439280	Sewer				0	DOE RUN RD	sfr
033029439330	Sewer				0	DOE RUN RD	sfr
033029439370	Sewer				0	COVEY RUN LN	sfr
033029439410	Sewer				0	COVEY RUN LN	sfr
033029449030	Sewer				0	COVEY RUN LN	sfr
033029449050	Sewer				0	DOE RUN RD	sfr
033029449060	Sewer				0	DOE RUN RD	sfr
033029449070	Sewer				0	DOE RUN RD	sfr
033029449090	Sewer				0	DOE RUN RD	sfr
033029449100	Sewer				0	DOE RUN RD	sfr
033029449150	Sewer				0	HAWKS WY	sfr
033029449170	Sewer				0	COVEY RUN LN	sfr
033029449190	Sewer				0	COVEY RUN LN	sfr
033029449200	Sewer				0	DOE RUN RD	sfr
033029449210	Sewer				0	STAG LN	sfr
033029449230	Sewer				0	STAG LN	sfr
033029449240	Sewer				0	DOE RUN RD	sfr
033029449260	Sewer				0	DOE RUN RD	sfr
033029449280	Sewer				0	DOE RUN RD	sfr
033029449290	Sewer				0	DOE RUN RD	sfr
033029449300	Sewer				0	HAWKS WY	sfr
033029449310	Sewer				0	DOE RUN RD	sfr
033029449320	Sewer				0	ELK PASS RD	sfr
033029449350	Sewer				0	DOE RUN RD	sfr
033029449380	Sewer				0	HAWKS WY	sfr
033029449390	Sewer				0	COVEY RUN LN	sfr
033029449400	Sewer				0	COVEY RUN LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029500000	Sewer				0	MILLER RD	pub_os
033029500010	Sewer				0	CORAL DR	sfr
033029500020	Sewer				0	CORAL DR	sfr
033029500030	Sewer				0	CORAL DR	sfr
033029500040	Sewer				0	CORAL DR	sfr
033029500050	Sewer				0	CORAL DR	sfr
033029500060	Sewer				0	CORAL DR	sfr
033029500070	Sewer				0	CORAL DR	sfr
033029500080	Sewer				0	CORAL DR	sfr
033029500090	Sewer				0	CORAL DR	sfr
033029500100	Sewer				0	CORAL DR	sfr
033029500110	Sewer				0	CORAL DR	sfr
033029500120	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500130	Sewer				0	TOPAZ WY	sfr
033029500140	Sewer				0	TOPAZ WY	sfr
033029500150	Sewer				0	TOPAZ WY	sfr
033029500160	Sewer				0	TOPAZ WY	sfr
033029500170	Sewer				0	TOPAZ WY	sfr
033029500180	Sewer				0	TOPAZ WY	sfr
033029500190	Sewer				0	TOPAZ WY	sfr
033029500200	Sewer				0	TOPAZ WY	sfr
033029500210	Sewer				0	TOPAZ WY	sfr
033029500220	Sewer				0	TOPAZ WY	sfr
033029500230	Sewer				0	TOPAZ WY	sfr
033029500240	Sewer				0	TOPAZ WY	sfr
033029500250	Sewer				0	OPAL LN	sfr
033029500260	Sewer				0	OPAL LN	sfr
033029500270	Sewer				0	OPAL LN	sfr
033029500280	Sewer				0	OPAL LN	sfr
033029500290	Sewer				0	OPAL LN	sfr
033029500300	Sewer				0	OPAL LN	sfr
033029500310	Sewer				0	OPAL LN	sfr
033029500320	Sewer				0	OPAL LN	sfr
033029500335	Sewer				0	OPAL LN	sfr
033029500350	Sewer				0	OPAL LN	sfr
033029500360	Sewer				0	OPAL LN	sfr
033029500370	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500380	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500390	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500400	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500420	Sewer				0	EMERALD HIGHLANDS WY	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029500430	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500440	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500450	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500460	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500470	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500480	Sewer				0	ONYX LN	sfr
033029500490	Sewer				0	ONYX LN	sfr
033029500500	Sewer				0	ONYX LN	sfr
033029500510	Sewer				0	ONYX LN	sfr
033029500520	Sewer				0	ONYX LN	sfr
033029500530	Sewer				0	ONYX LN	sfr
033029500540	Sewer				0	ONYX LN	sfr
033029500550	Sewer				0	ONYX LN	sfr
033029500560	Sewer				0	ONYX LN	sfr
033029500570	Sewer				0	ONYX LN	sfr
033029500580	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500590	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500600	Sewer				0	EMERALD HIGHLANDS WY	sfr
033029500610	Sewer				0	CORAL DR	sfr
033029500620	Sewer				0	CORAL DR	sfr
033029500640	Sewer				0	CORAL DR	sfr
033029500650	Sewer				0	CORAL DR	sfr
033029500660	Sewer				0	CORAL DR	sfr
033029500670	Sewer				0	CORAL DR	sfr
033029500690	Sewer				0	CORAL DR	sfr
033029500700	Sewer				0	CORAL DR	sfr
033029500710	Sewer				0	CORAL DR	sfr
033029500720	Sewer				0	CORAL DR	sfr
033029500750	Sewer				0	CORAL DR	sfr
033029500770	Sewer				0	CORAL DR	sfr
033029500780	Sewer				0	CORAL DR	sfr
033029500790	Sewer				0	CORAL DR	sfr
033029500805	Sewer				0	CORAL DR	sfr
033029500815	Sewer				0	CORAL DR	sfr
033029500820	Sewer				0	JADE CIR	sfr
033029500830	Sewer				0	JADE CIR	sfr
033029500840	Sewer				0	JADE CIR	sfr
033029500850	Sewer				0	JADE CIR	sfr
033029500860	Sewer				0	JADE CIR	sfr
033029500870	Sewer				0	JADE CIR	sfr
033029500890	Sewer				0	AMETHYST DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029500900	Sewer				0	AMETHYST DR	sfr
033029500920	Sewer				0	AMETHYST DR	sfr
033029500930	Sewer				0	AMETHYST DR	sfr
033029500940	Sewer				0	AMETHYST DR	sfr
033029500960	Sewer				0	AMETHYST DR	sfr
033029500970	Sewer				0	AMETHYST DR	sfr
033029500980	Sewer				0	AMETHYST DR	sfr
033029501000	Sewer				0	AMETHYST DR	sfr
033029501020	Sewer				0	AMETHYST DR	sfr
033029501030	Sewer				0	AMETHYST DR	sfr
033029501040	Sewer				0	AMETHYST DR	sfr
033029501050	Sewer				0	AMETHYST DR	sfr
033029501070	Sewer				0	SAPPHIRE PL	sfr
033029501080	Sewer				0	SAPPHIRE PL	sfr
033029501090	Sewer				0	SAPPHIRE PL	sfr
033029501100	Sewer				0	SAPPHIRE PL	sfr
033029501110	Sewer				0	SAPPHIRE PL	sfr
033029501120	Sewer				0	SAPPHIRE PL	sfr
033029501130	Sewer				0	SAPPHIRE PL	sfr
033029501140	Sewer				0	SAPPHIRE PL	sfr
033029501150	Sewer				0	SAPPHIRE PL	sfr
033029501160	Sewer				0	SAPPHIRE PL	sfr
033029501200	Sewer				0	SAPPHIRE PL	sfr
033029501210	Sewer				0	AMETHYST DR	sfr
033029501220	Sewer				0	AMETHYST DR	sfr
033029501250	Sewer				0	AMETHYST DR	sfr
033029501260	Sewer				0	AMETHYST DR	sfr
033029501270	Sewer				0	AMETHYST DR	sfr
033029501280	Sewer				0	AMETHYST DR	sfr
033029501290	Sewer				0	AMETHYST DR	sfr
033029501300	Sewer				0	AMETHYST DR	sfr
033029501310	Sewer				0	AMETHYST DR	sfr
033029501335	Sewer				0	AMETHYST DR	sfr
033029501345	Sewer				0	AMETHYST DR	sfr
033029501350	Sewer				0	AMETHYST DR	sfr
033029501360	Sewer				0	AMETHYST DR	sfr
033029501370	Sewer				0	AMETHYST DR	sfr
033029501380	Sewer				0	AMETHYST DR	sfr
033029501390	Sewer				0	AMETHYST DR	sfr
033029501400	Sewer				0	AMETHYST DR	sfr
033029501410	Sewer				0	AMETHYST DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029501420	Sewer				0	AMETHYST DR	sfr
033029501430	Sewer				0	AMETHYST DR	sfr
033029501470	Sewer				0	AMETHYST DR	sfr
033029501480	Sewer				0	CORAL DR	sfr
033029501490	Sewer				0	CORAL DR	sfr
033029501500	Sewer				0	CORAL DR	sfr
033029501510	Sewer				0	CORAL DR	sfr
033029501520	Sewer				0	CORAL DR	sfr
033029510010	Sewer				0	AMETHYST DR	sfr
033029510020	Sewer				0	AMETHYST DR	sfr
033029520010	Sewer				0	ALPINE LP	sfr
033029520020	Sewer				0	ALPINE LP	sfr
033029520030	Sewer				0	ALPINE LP	sfr
033029520040	Sewer				0	ALPINE LP	sfr
033029520050	Sewer				0	ALPINE LP	sfr
033029520060	Sewer				0	ALPINE LP	sfr
033029520070	Sewer				0	ALPINE LP	sfr
033029520080	Sewer				0	ALPINE LP	sfr
033029520090	Sewer				0	ALPINE LP	sfr
033029520100	Sewer				0	ALPINE LP	sfr
033029520110	Sewer				0	ALPINE LP	sfr
033029520120	Sewer				0	ALPINE LP	sfr
033029520130	Sewer				0	ALPINE LP	sfr
033029520140	Sewer				0	ALPINE LP	sfr
033029520150	Sewer				0	ALPINE LP	sfr
033029520160	Sewer				0	ALPINE LP	sfr
033029520170	Sewer				0	ALPINE LP	sfr
033029520180	Sewer				0	ALPINE LP	sfr
033029520190	Sewer				0	ALPINE LP	sfr
033029520200	Sewer				0	ALPINE LP	sfr
033029520210	Sewer				0	ALPINE LP	sfr
033029520220	Sewer				0	ALPINE LP	sfr
033029530030	Sewer				0	CRAFTSMAN CT	sfr
033029530040	Sewer				0	CRAFTSMAN CT	sfr
033029530050	Sewer				0	CRAFTSMAN CT	sfr
033029530060	Sewer				0	CRAFTSMAN CT	sfr
033029530070	Sewer				0	CRAFTSMAN CT	sfr
033029530080	Sewer				0	CRAFTSMAN CT	sfr
033029530090	Sewer				0	CRAFTSMAN CT	sfr
033029530100	Sewer				0	CRAFTSMAN CT	sfr
033029530110	Sewer				0	CRAFTSMAN CT	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029530120	Sewer				0	CRAFTSMAN CT	sfr
033029530160	Sewer				0	CRAFTSMAN CT	sfr
033029530170	Sewer				0	CRAFTSMAN CT	sfr
033029530180	Sewer				0	CRAFTSMAN CT	sfr
033029530190	Sewer				0	CRAFTSMAN CT	sfr
033029530200	Sewer				0	CRAFTSMAN CT	sfr
033029530210	Sewer				0	CRAFTSMAN CT	sfr
033029530220	Sewer				0	CRAFTSMAN CT	sfr
033029530230	Sewer				0	CRAFTSMAN CT	sfr
033029530240	Sewer				0	CRAFTSMAN CT	sfr
033029530250	Sewer				0	CRAFTSMAN CT	sfr
033029530260	Sewer				0	CRAFTSMAN CT	sfr
033029530270	Sewer				0	CRAFTSMAN CT	sfr
033029530280	Sewer				0	CRAFTSMAN CT	pub_os
033029530290	Sewer				0	CRAFTSMAN CT	exempt
033029530300	Sewer				0	CRAFTSMAN CT	pub_os
033029530310	Sewer				0	CRAFTSMAN CT	pub_os
033029530320	Sewer				0		pub_os
033029530370	Sewer				0		rd
033029540020	Sewer				0	OWLS NEST RD	sfr
033029550110	Sewer				0	AMERICAN EAGLE DR	sfr
033030110100	Sewer				0	SEQUIM AVE	res_u
033030110200	Sewer				0	THIRD AVE	sfr
033030110300	Sewer				0	THIRD AVE	sfr
033030120005	Sewer				0	THIRD AVE	mh
033030120010	Sewer				0	FIFTH AVE	mfr
033030120030	Sewer				0	FIFTH AVE	mfr
033030120035	Sewer				0	THIRD AVE	mhp
033030120070	Sewer				0	THIRD AVE	mhp
033030120130	Sewer				0	THIRD AVE	mhp
033030120140	Sewer				0	THIRD AVE	cml
033030130050	Sewer				0	RESERVOIR RD	sfr
033030130070	Sewer				0	RESERVOIR RD	sfr
033030130100	Sewer				0	RESERVOIR RD	sfr
033030130120	Sewer				0	RESERVOIR RD	sfr
033030130130	Sewer				0	RESERVOIR RD	sfr
033030139040	Sewer				0	RESERVOIR RD	sfr
033030139060	Sewer				0	RESERVOIR RD	sfr
033030139070	Sewer				0	RESERVOIR RD	sfr
033030139080	Sewer				0	RESERVOIR RD	sfr
033030139090	Sewer				0	RESERVOIR RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030139100	Sewer				0	RESERVOIR RD	sfr
033030139110	Sewer				0	RESERVOIR RD	sfr
033030140010	Sewer				0	SEQUIM AVE	sfr
033030149010	Sewer				0	SEQUIM AVE	ag
033030149020	Sewer				0	SEQUIM AVE	ag
033030240020	Sewer				0	RESERVOIR RD	sfr
033030240030	Sewer				0	EUNICE ST	sfr
033030240040	Sewer				0	EUNICE ST	sfr
033030240050	Sewer				0	EUNICE ST	sfr
033030240060	Sewer				0	EUNICE ST	sfr
033030249000	Sewer				0	EUNICE ST	mh
033030249010	Sewer				0	RESERVOIR RD	mh
033030249020	Sewer				0	EUNICE ST	sfr
033030249030	Sewer				0	RESERVOIR RD	sfr
033030310000	Sewer				0	RESERVOIR RD	sfr
033030310030	Sewer				0	SEVENTH AVE	sfr
033030319020	Sewer				0	HAPPY VIEW LN	sfr
033030319040	Sewer				0	HAPPY VIEW LN	res_u
033030319060	Sewer				0	SEVENTH AVE	sfr
033030320020	Sewer				0	S SEVENTH AVE	sfr_ag
033030410052	Sewer				0	THIRD AVE	mh
033030410070	Sewer				0	THIRD AVE	sfr
033030410160	Sewer				0	THIRD AVE	sfr
033030419010	Sewer				0	STEPHENS PL	mh
033030419020	Sewer				0	STEPHENS PL	sfr
033030419040	Sewer				0	STEPHENS PL	mh
033030420100	Sewer				0	THIRD AVE	sfr
033030420120	Sewer				0	RESERVOIR RD	sfr
033030420160	Sewer				0	RESERVOIR RD	sfr
033030500100	Sewer				0	EUNICE ST	sfr
033030500102	Sewer				0	EUNICE ST	sfr
033030500104	Sewer				0	EUNICE ST	sfr
033030500106	Sewer				0	EUNICE ST	mh
033030500108	Sewer				0	EUNICE ST	sfr
033030500110	Sewer				0	EUNICE ST	sfr
033030500112	Sewer				0	EUNICE ST	sfr
033030500114	Sewer				0	EUNICE ST	sfr
033030500116	Sewer				0	EUNICE ST	sfr
033030500118	Sewer				0	EUNICE ST	sfr
033030500120	Sewer				0	EUNICE ST	sfr
033030500122	Sewer				0	EUNICE ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030500124	Sewer				0	EUNICE ST	sfr
033030500126	Sewer				0	EUNICE ST	sfr
033030500128	Sewer				0	EUNICE ST	sfr
033030500130	Sewer				0	EUNICE ST	sfr
033030500132	Sewer				0	EUNICE ST	sfr
033030500134	Sewer				0	EUNICE ST	sfr
033030500136	Sewer				0	EUNICE ST	sfr
033030500138	Sewer				0	EUNICE ST	sfr
033030500140	Sewer				0	EUNICE ST	sfr
033030500142	Sewer				0	EUNICE ST	sfr
033030500144	Sewer				0	EUNICE ST	sfr
033030500146	Sewer				0	EUNICE ST	sfr
033030500148	Sewer				0	EUNICE ST	sfr
033030500150	Sewer				0	EUNICE ST	sfr
033030500152	Sewer				0	NORMAN ST	sfr
033030500154	Sewer				0	NORMAN ST	sfr
033030500156	Sewer				0	NORMAN ST	sfr
033030500158	Sewer				0	NORMAN ST	sfr
033030500160	Sewer				0	NORMAN ST	sfr
033030500162	Sewer				0	NORMAN ST	sfr
033030500164	Sewer				0	NORMAN ST	sfr
033030500166	Sewer				0	NORMAN ST	sfr
033030500168	Sewer				0	NORMAN ST	sfr
033030500172	Sewer				0	NORMAN ST	sfr
033030500174	Sewer				0	NORMAN ST	sfr
033030500176	Sewer				0	NORMAN ST	sfr
033030510110	Sewer				0	RESERVOIR RD	mfr
033030510115	Sewer				0	EUNICE ST	mfr
033030510130	Sewer				0	EUNICE ST	sfr
033030510135	Sewer				0	RESERVOIR RD	sfr
033030510140	Sewer				0	EUNICE ST	sfr
033030510145	Sewer				0	EUNICE ST	sfr
033030510150	Sewer				0	EUNICE ST	sfr
033030510155	Sewer				0	EUNICE ST	sfr
033030510160	Sewer				0	EUNICE ST	sfr
033030510162	Sewer				0		sfr
033030510165	Sewer				0	EUNICE ST	sfr
033030519000	Sewer				0	EUNICE ST	sfr
033030519010	Sewer				0	RESERVOIR RD	sfr
033030519020	Sewer				0	RESERVOIR RD	sfr
033030519030	Sewer				0	EUNICE ST	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030519040	Sewer				0	EUNICE ST	sfr
033030519050	Sewer				0	RESERVOIR RD	sfr
033030519070	Sewer				0	RESERVOIR RD	sfr
033030520000	Sewer				0	THIRD AVE	mfr
033030531035	Sewer				0	THIRD AVE	mfr
033030540010	Sewer				0	PETAL LN	sfr
033030540020	Sewer				0	PETAL LN	sfr
033030540030	Sewer				0	PETAL LN	sfr
033030540060	Sewer				0	PETAL LN	sfr
033030540070	Sewer				0	PETAL LN	sfr
033030540090	Sewer				0	PETAL LN	sfr
033030540110	Sewer				0	PETAL LN	sfr
033030540120	Sewer				0	PETAL LN	sfr
033030540130	Sewer				0	PETAL LN	sfr
033030540140	Sewer				0	PETAL LN	sfr
033030540150	Sewer				0	PETAL LN	sfr
033030540160	Sewer				0	PETAL LN	sfr
033030540220	Sewer				0	PETAL LN	sfr
033030540230	Sewer				0	ROLLING HILLS WY	sfr
033030540240	Sewer				0	ROLLING HILLS WY	sfr
033030540260	Sewer				0	PETAL LN	sfr
033030540270	Sewer				0	PETAL LN	sfr
033030540280	Sewer				0	PETAL LN	sfr
033030540290	Sewer				0	PETAL LN	sfr
033030540300	Sewer				0	PETAL LN	sfr
033030540310	Sewer				0	PETAL LN	sfr
033030540320	Sewer				0	PETAL LN	sfr
033030540340	Sewer				0	PETAL LN	sfr
033030540350	Sewer				0	PETAL LN	sfr
033030540360	Sewer				0	PETAL LN	sfr
033030540370	Sewer				0	PETAL LN	sfr
033030540380	Sewer				0	PETAL LN	sfr
033030550010	Sewer				0	MALIANDRA DR	mfr
033030550020	Sewer				0	MALIANDRA DR	mfr
033030550030	Sewer				0	MALIANDRA DR	mfr
033030560010	Sewer				0	ASPEN CREEK CT	sfr
033030560020	Sewer				0	ASPEN CREEK CT	sfr
033030560040	Sewer				0	ASPEN CREEK CT	sfr
033030560050	Sewer				0	ASPEN CREEK CT	sfr
033030560070	Sewer				0	ASPEN CREEK CT	sfr
033030560080	Sewer				0	ASPEN CREEK CT	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030560090	Sewer				0	ASPEN CREEK CT	sfr
033030560100	Sewer				0	ASPEN CREEK CT	sfr
033030560110	Sewer				0	ASPEN CREEK CT	sfr
033030560140	Sewer				0	ASPEN CREEK CT	sfr
033030570150	Sewer				0	SYCAMORE ST	mfr
033030570160	Sewer				0	SYCAMORE ST	mfr
033030570190	Sewer				0	SYCAMORE ST	mfr
033030570200	Sewer				0	SYCAMORE ST	mfr
033030570210	Sewer				0	SYCAMORE ST	mfr
033030570220	Sewer				0	SYCAMORE ST	mfr
033030570230	Sewer				0	SYCAMORE ST	mfr
033030570240	Sewer				0	SYCAMORE ST	mfr
033030570250	Sewer				0	SYCAMORE ST	mfr
033030570260	Sewer				0	SYCAMORE ST	mfr
033030570270	Sewer				0	SYCAMORE ST	sfr
033030570280	Sewer				0	SYCAMORE ST	sfr
033030570290	Sewer				0	SYCAMORE ST	sfr
033030570300	Sewer				0	SYCAMORE ST	mfr
033030570310	Sewer				0	SYCAMORE ST	mfr
033030570320	Sewer				0	SYCAMORE ST	mfr
033030570330	Sewer				0	SYCAMORE ST	mfr
033030570340	Sewer				0	SYCAMORE ST	mfr
033030570350	Sewer				0	BIGLEAF CT	mfr
033030570360	Sewer				0	BIGLEAF CT	mfr
033030570370	Sewer				0	BIGLEAF CT	mfr
033030570380	Sewer				0	BIGLEAF CT	mfr
033030570390	Sewer				0	BIGLEAF CT	mfr
033030570400	Sewer				0	BIGLEAF CT	mfr
033030580005	Sewer				0	RUE LAVANDE	rd
033030580040	Sewer				0	RUE LAVANDE	sfr
033030580050	Sewer				0	RUE LAVANDE	sfr
033030580080	Sewer				0	RUE LAVANDE	sfr
033030580110	Sewer				0	RUE LAVENDE	sfr
033030590150	Sewer				0	ROLLING HILLS WY	sfr
033030590200	Sewer				0	ROLLING HILLS WY	sfr
033032110010	Sewer				0	CARRIAGE DR	sfr
033032119000	Sewer				0	CARRIAGE DR	sfr
033032119020	Sewer				0	CARRIAGE DR	sfr
033032119050	Sewer				0	OVERLOOK TRL	sfr
033032119070	Sewer				0	STAMPEDE DR	sfr
033032119080	Sewer				0	CARRIAGE DR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032129020	Sewer				0	STAMPEDE DR	sfr
033032129030	Sewer				0	PALOMINO LN	sfr
033032129040	Sewer				0	CARRIAGE DR	sfr
033032129050	Sewer				0	CARRIAGE DR	sfr
033032129060	Sewer				0	CARRIAGE DR	sfr
033032129080	Sewer				0	CARRIAGE DR	sfr
033032129090	Sewer				0	STAMPEDE DR	sfr
033032129110	Sewer				0	CARRIAGE DR	sfr
033032129130	Sewer				0	CARRIAGE DR	sfr
033032129142	Sewer				0	CARRIAGE DR	sfr
033032129150	Sewer				0		sfr
033032140180	Sewer				0	QUARTER HORSE LN	sfr
033032140210	Sewer				0	STAMPEDE DR	sfr
033032149000	Sewer				0	CARRIAGE DR	sfr
033032149050	Sewer				0	QUARTER HORSE LN	sfr
033032149070	Sewer				0	QUARTER HORSE LN	sfr
033032200490	Sewer				0	DOE RUN RD	sfr
033032219020	Sewer				0	FOX HOLLOW RD	sfr
033032219070	Sewer				0	FOX HOLLOW RD	sfr
033032219080	Sewer				0	FOX HOLLOW RD	sfr
033032219090	Sewer				0	FOX HOLLOW RD	sfr
033032219100	Sewer				0	FOX HOLLOW RD	sfr
033032219120	Sewer				0	RAVENS RIDGE RD	sfr
033032219140	Sewer				0	DOE RUN RD	sfr
033032219150	Sewer				0	DOE RUN RD	sfr
033032219162	Sewer				0	DOE RUN RD	sfr
033032219230	Sewer				0	RAVENS RIDGE RD	sfr
033032219250	Sewer				0	RAVENS RIDGE RD	sfr
033032219260	Sewer				0	DOE RUN RD	sfr
033032229100	Sewer				0	SPRINGWATER LN	sfr
033032249010	Sewer				0	DOE RUN RD	sfr
033032249020	Sewer				0	DOE RUN RD	sfr
033032249030	Sewer				0	DOE RUN RD	sfr
033032249040	Sewer				0	DOE RUN RD	sfr
033032249050	Sewer				0	DOE RUN RD	sfr
033032249060	Sewer				0	DOE RUN RD	sfr
033032249070	Sewer				0	DOE RUN RD	sfr
033032249090	Sewer				0	FOX HOLLOW RD	sfr
033032249100	Sewer				0	FOX HOLLOW RD	sfr
033032249110	Sewer				0	FOX HOLLOW RD	sfr
033032249150	Sewer				0	FOX HOLLOW RD	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032249160	Sewer				0	FOX HOLLOW RD	sfr
033032249170	Sewer				0	FOX HOLLOW RD	sfr
033032249200	Sewer				0	FOX HOLLOW RD	sfr
033032249210	Sewer				0	FOX HOLLOW RD	sfr
033032249220	Sewer				0	FOX HOLLOW RD	sfr
033032249230	Sewer				0	FOX HOLLOW RD	sfr
033032249240	Sewer				0	DOE RUN RD	sfr
033032249250	Sewer				0	DOE RUN RD	sfr
033032249260	Sewer				0	DOE RUN RD	sfr
033032249280	Sewer				0	DOE RUN RD	sfr
033032249290	Sewer				0	DOE RUN RD	sfr
033032249310	Sewer				0	FOX HOLLOW RD	sfr
033032249330	Sewer				0	DOE RUN RD	sfr
033032249340	Sewer				0	DOE RUN RD	sfr
033032249350	Sewer				0	DOE RUN RD	sfr
033032249370	Sewer				0	DOE RUN RD	sfr
033032249380	Sewer				0	FOX HOLLOW RD	sfr
033032249390	Sewer				0	FOX HOLLOW RD	sfr
033033229020	Sewer				0	OVERLOOK TRL	sfr
043024141000	Sewer				0	BRACKETT RD	sfr
043024141500	Sewer				0	BRACKETT RD	sfr
043024300000	Sewer				0		rd
043024310040	Sewer				0	WASHINGTON ST	cml
043024310045	Sewer				0	WASHINGTON ST	cml
043024317060	Sewer				0	WASHINGTON ST	cml
043024347010	Sewer				0	RIVER RD	cml
043024347020	Sewer				0	RIVER RD	cml
043024347030	Sewer				0	RIVER RD	ldg
043024347050	Sewer				0	GRANT RD	vac
043024349080	Sewer				0	GRANT RD	cml
043024427010	Sewer				0	RIVER RD	cml
043024427030	Sewer				0	RIVER RD	cml
043024427040	Sewer				0	WASHINGTON ST	cml
043024427060	Sewer				0	WASHINGTON ST	cml
043024439150	Sewer				0	RIVER RD	sfr
043024439240	Sewer				0	RIVER RD	cml
043024439250	Sewer				0	RIVER RD	cml
043024439340	Sewer				0	MARLO DR	sfr
043024439350	Sewer				0	MARLO DR	sfr
043024439360	Sewer				0	MARLO DR	sfr
043024439370	Sewer				0	MARLO LP	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024439380	Sewer				0	MARLO LP	sfr
043024439390	Sewer				0	MARLO LP	sfr
043024439400	Sewer				0	MARLO LP	sfr
043024439410	Sewer				0	MARLO LP	sfr
043024439420	Sewer				0	MARLO LP	sfr
043024509050	Sewer				0	HELEN COURT	sfr
043024509060	Sewer				0	HELEN COURT	sfr
043024509070	Sewer				0	HELEN COURT	sfr
043024509080	Sewer				0	HELEN COURT	sfr
043024509090	Sewer				0	HELEN COURT	sfr
043024509100	Sewer				0	HELEN COURT	sfr
043024520010	Sewer				0	NINTH AVE	sfr
043024520030	Sewer				0	NINTH AVE	sfr
043024520040	Sewer				0	9TH	sfr
043024520050	Sewer				0	NINTH AVE	sfr
043024520080	Sewer				0	HONEYCOMB CIR	sfr
043024520090	Sewer				0	HONEYCOMB CIR	sfr
043024520110	Sewer				0	HONEYCOMB CIR	sfr
043024520130	Sewer				0	SPRUCE ST	sfr
043024520140	Sewer				0	NINTH AVE	sfr
043024520150	Sewer				0	NINTH AVE	sfr
043024520160	Sewer				0	NINTH AVE	sfr
043024520170	Sewer				0	HONEYCOMB CIR	sfr
043024520180	Sewer				0	HONEYCOMB CIR	sfr
043024520190	Sewer				0	HONEYCOMB CIR	sfr
043024520200	Sewer				0	HONEYCOMB CIR	sfr
043024520210	Sewer				0	HONEYCOMB CIR	sfr
043024520220	Sewer				0	HONEYCOMB CIR	sfr
043024520230	Sewer				0	HONEYCOMB CIR	sfr
043024520240	Sewer				0	HONEYCOMB CIR	sfr
043024520250	Sewer				0	HONEYCOMB CIR	sfr
043024520260	Sewer				0	HONEYCOMB CIR	sfr
043024520270	Sewer				0	HONEYCOMB CIR	sfr
043024520280	Sewer				0	HONEYCOMB CIR	sfr
043024520290	Sewer				0	HONEYCOMB CIR	sfr
043024520300	Sewer				0	HONEYCOMB CIR	sfr
043024520310	Sewer				0	HONEYCOMB CIR	sfr
043024520320	Sewer				0	HONEYCOMB CIR	sfr
043024520330	Sewer				0	HONEYCOMB CIR	sfr
043024520340	Sewer				0	SPRUCE ST	sfr
043024520350	Sewer				0	HONEYCOMB CIR	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024520360	Sewer				0	HONEYCOMB CIR	sfr
043024520370	Sewer				0	HONEYCOMB CIR	sfr
043024520380	Sewer				0	HONEYCOMB CIR	sfr
043024520390	Sewer				0	HONEYCOMB CIR	sfr
043024520400	Sewer				0	DESERET AVE	sfr
043024520410	Sewer				0	DESERET AVE	sfr
043024520420	Sewer				0	DESERET AVE	sfr
043024520430	Sewer				0	DESERET AVE	sfr
043024520440	Sewer				0	DESERET AVE	sfr
043024520450	Sewer				0	DESERET AVE	sfr
043024520460	Sewer				0	DESERET AVE	sfr
043024520470	Sewer				0	DESERET AVE	sfr
043024540010	Sewer				0	WASHINGTON	cml
043024540020	Sewer				0	NINTH ST	cml
043024560000	Sewer				0	DESERET AVE	mfr
043024570005	Sewer				0	COBBLESTONE RD	pub_os
043024570010	Sewer				0	COBBLESTONE LN	sfr
043024570030	Sewer				0	COBBLESTONE LN	sfr
043024570040	Sewer				0	COBBLESTONE LN	sfr
043024570050	Sewer				0	COBBLESTONE LN	sfr
043024570060	Sewer				0	COBBLESTONE LN	sfr
043024570070	Sewer				0	COBBLESTONE LN	sfr
043024570090	Sewer				0	COBBLESTONE LN	sfr
043024570100	Sewer				0	COBBLESTONE LN	sfr
043024570110	Sewer				0	COBBLESTONE LN	sfr
043024570120	Sewer				0	COBBLESTONE LN	sfr
043024570130	Sewer				0	COBBLESTONE LN	sfr
043024570150	Sewer				0	COBBLESTONE LN	sfr
043024570170	Sewer				0	COBBLESTONE LN	sfr
043024570210	Sewer				0	COBBLESTONE LN	sfr
043024570220	Sewer				0	COBBLESTONE LN	sfr
043024570230	Sewer				0	COBBLESTONE LN	sfr
043024570240	Sewer				0	COBBLESTONE LN	sfr
043024570250	Sewer				0	COBBLESTONE LN	sfr
043024570280	Sewer				0	COBBLESTONE LN	sfr
043024570300	Sewer				0	COBBLESTONE LN	sfr
043024570310	Sewer				0	COBBLESTONE LN	sfr
043024570320	Sewer				0		
043024570330	Sewer				0	COBBLESTONE LN	sfr
043024570340	Sewer				0	COBBLESTONE LN	sfr
043024570370	Sewer				0	COBBLESTONE LN	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024570410	Sewer				0	COBBLESTONE LN	sfr
043024570420	Sewer				0	COBBLESTONE LN	sfr
043024580010	Sewer				0	LOBELIA DR	sfr
043024580020	Sewer				0	LOBELIA DR	sfr
043024580030	Sewer				0	LOBELIA DR	sfr
043024580050	Sewer				0	LOBELIA DR	mfr
043024580150	Sewer				0	LOBELIA DR	sfr
043024580160	Sewer				0	LOBELIA DR	sfr
043024580170	Sewer				0	LOBELIA DR	sfr
043024580180	Sewer				0	LOBELIA DR	sfr
043024580190	Sewer				0	LOBELIA DR	sfr
043024580220	Sewer				0	LOBELIA DR	sfr
043024580300	Sewer				0	LOBELIA DR	sfr
043024580320	Sewer				0	LOBELIA DR	sfr
043024580330	Sewer				0	LOBELIA DR	sfr
043024581510	Sewer				0	SNAPDRAGON LN	sfr
043024581520	Sewer				0	SNAPDRAGON LN	sfr
043024581530	Sewer				0	SNAPDRAGON LN	sfr
043024581540	Sewer				0	SNAPDRAGON LN	sfr
043024581550	Sewer				0	SNAPDRAGON LN	sfr
043024581560	Sewer				0	SNAPDRAGON LN	sfr
043024581570	Sewer				0	SNAPDRAGON LN	sfr
043024581580	Sewer				0	SNAPDRAGON LN	sfr
043024581590	Sewer				0	SNAPDRAGON LN	sfr
043024581600	Sewer				0	SNAPDRAGON LN	sfr
043024581610	Sewer				0	SNAPDRAGON LN	mfr
043024581620	Sewer				0	SNAPDRAGON LN	sfr
043024581740	Sewer				0	JENNIES BLVD	mfr
043024581750	Sewer				0	JENNIES BLVD	mfr
043024581760	Sewer				0	JENNIES BLVD	mfr
043024581770	Sewer				0	JENNIES BLVD	mfr
043024581780	Sewer				0	JENNIES BLVD	sfr
043024581790	Sewer				0	JENNIES BLVD	sfr
043024581800	Sewer				0	JENNIES BLVD	sfr
043024581810	Sewer				0	JENNIES BLVD	sfr
043024581820	Sewer				0	JENNIES BLVD	sfr
043024581830	Sewer				0	JENNIES BLVD	sfr
043024581840	Sewer				0	JENNIES BLVD	sfr
043024581850	Sewer				0	JENNIES BLVD	sfr
043024581860	Sewer				0	GOLDENROD LN	mfr
043024581870	Sewer				0	GOLDENROD LN	mfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024581880	Sewer				0	GOLDENROD LN	mfr
043024581890	Sewer				0	GOLDENROD LN	mfr
043024581900	Sewer				0	GOLDENROD LN	mfr
043024581910	Sewer				0	GOLDENROD LN	mfr
043024581920	Sewer				0	GOLDENROD LN	mfr
043024581930	Sewer				0	GOLDENROD LN	mfr
043024582000	Sewer				0	GOLDENROD LN	sfr
043024582010	Sewer				0	GOLDENROD LN	sfr
033017road02	Sewer				0		rd
033018road60	Sewer				0		rd
033018road70	Sewer				0		rd
033018road72	Sewer				0		rd
033018road79	Sewer				0		rd
033019road18	Sewer				0		rd
033019road22	Sewer				0		rd
033019road26	Sewer				0		rd
033019road39	Sewer				0		rd
033019road83	Sewer				0		rd
033020road21	Sewer				0		rd
033020road83	Sewer				0		rd
033021road47	Sewer				0		rd
033029road98	Sewer				0		rd
033030road29	Sewer				0		rd
033030road63	Sewer				0		rd
033030road67	Sewer				0		rd
033015110070	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033015220000	Vacant or No Suspected OSS				0	SCHMUCK RD	ag
033015220030	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033015220050	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033015230080	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	pub_os
033015300000	Vacant or No Suspected OSS				0	SCHMUCK RD	ag
033015320000	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	tmbr
033015400000	Vacant or No Suspected OSS				0	SCHMUCK RD	wtr
033015400020	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	vac
033016110000	Vacant or No Suspected OSS				0	SCHMUCK RD	rd
033016120090	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	vac
033016129010	Vacant or No Suspected OSS				0	HOLLAND RD	ag
033016129020	Vacant or No Suspected OSS				0	HOLLAND RD	ag
033016129040	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033016130000	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033016140000	Vacant or No Suspected OSS				0	SCHMUCK RD	ag
033016210000	Vacant or No Suspected OSS				0	HOLLAND RD	rd
033016210080	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	cml
033016219060	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	os
033016220000	Vacant or No Suspected OSS				0	HOLLAND RD	tmbr
033016230020	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	tmbr
033016230090	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016239025	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016239040	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	tmbr
033016249080	Vacant or No Suspected OSS				0	DELTA WY	vac
033016249100	Vacant or No Suspected OSS				0	DELTA WY	vac
033016249150	Vacant or No Suspected OSS				0	FARMVIEW RD	vac
033016310000	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016320000	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016330000	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016330060	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016340000	Vacant or No Suspected OSS				0	JOHN SCOTT RD	tmbr
033016340050	Vacant or No Suspected OSS				0	JOHN SCOTT RD	vac
033016400000	Vacant or No Suspected OSS				0	SCHMUCK RD	ag
033016430000	Vacant or No Suspected OSS				0		tmbr
033016440000	Vacant or No Suspected OSS				0	SCHMUCK RD	cml
033017110150	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	tmbr
033017120080	Vacant or No Suspected OSS				0	HARRIETTE LN	sfr
033017120100	Vacant or No Suspected OSS				0	HARRIETTE LN	vac
033017140020	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	tmbr
033017140050	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	tmbr
033017220000	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	vac
033017239020	Vacant or No Suspected OSS				0	JESSLYN LN	sfr
033017239100	Vacant or No Suspected OSS				0	JESSLYN LN	vac
033017239110	Vacant or No Suspected OSS				0	JESSLYN LN	vac
033017239120	Vacant or No Suspected OSS				0	JESSLYN LN	vac
033017310090	Vacant or No Suspected OSS				0	BROWN RD	vac
033017310200	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017310300	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017310400	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017310500	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017310700	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017310800	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017320010	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag
033017320060	Vacant or No Suspected OSS				0	PORT WILLIAMS RD	ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017320070	Vacant or No Suspected OSS				0	SEQUIM DUNGENESS	ag
033017330140	Vacant or No Suspected OSS				0	SEQUIM AVE	sfr
033017330150	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033017339000	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033017339010	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033017339020	Vacant or No Suspected OSS				0	HENDRICKSON RD	os
033017339030	Vacant or No Suspected OSS				0	HENDRICKSON RD	os
033017339040	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033017339050	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033017349010	Vacant or No Suspected OSS				0	GREY FOX RD	vac
033017349030	Vacant or No Suspected OSS				0	GREY FOX RD	vac
033017349160	Vacant or No Suspected OSS				0	GREY FOX RD	vac
033017349240	Vacant or No Suspected OSS				0	GREY FOX RD	vac
033017410000	Vacant or No Suspected OSS				0	BROWN RD	tmbr
033017420000	Vacant or No Suspected OSS				0	BROWN RD	rd
033017430000	Vacant or No Suspected OSS				0	BROWN RD	res_u_ag
033017430100	Vacant or No Suspected OSS				0	BROWN RD	ag
033017440000	Vacant or No Suspected OSS				0	BROWN RD	os
033017440070	Vacant or No Suspected OSS				0	BLAKE AVE	ag
033017440080	Vacant or No Suspected OSS				0	BROWN RD	rd
033017510010	Vacant or No Suspected OSS				0	STONE FARM RD	vac
033017510020	Vacant or No Suspected OSS				0	STONE FARM RD	vac
033017510130	Vacant or No Suspected OSS				0	STONE FARM RD	vac
033018120020	Vacant or No Suspected OSS				0	EVANS RD	ag
033018120040	Vacant or No Suspected OSS				0	EVANS RD	ag
033018129040	Vacant or No Suspected OSS				0	PLUM TREE LN	sfr
033018129120	Vacant or No Suspected OSS				0	PLUM TREE LN	vac
033018149070	Vacant or No Suspected OSS				0	CROWNVIEW LN	sfr
033018149200	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
033018200000	Vacant or No Suspected OSS				0		rd
033018210020	Vacant or No Suspected OSS				0	EVANS RD	vac
033018219010	Vacant or No Suspected OSS				0	MARIAN WY	os
033018220080	Vacant or No Suspected OSS				0	FITZGERALD RD	rd
033018220160	Vacant or No Suspected OSS				0	HOUSE RD	vac
033018220230	Vacant or No Suspected OSS				0	HOUSE RD	vac
033018229050	Vacant or No Suspected OSS				0	HOUSE RD	vac
033018229080	Vacant or No Suspected OSS				0	HOUSE RD	vac
033018230050	Vacant or No Suspected OSS				0	LUND LN	rd
033018230310	Vacant or No Suspected OSS				0		vac
033018240100	Vacant or No Suspected OSS				0	DIANE DR	rd
033018320140	Vacant or No Suspected OSS				0	KENDALL RD	vac

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018329075	Vacant or No Suspected OSS				0	KENDALL RD	vac
033018329100	Vacant or No Suspected OSS				0	SIXTH AVE	vac
033018339070	Vacant or No Suspected OSS				0	KENDALL RD	vac
033018339080	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
033018419030	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018419050	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018419060	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018419070	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018419080	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018439050	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018440000	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018449070	Vacant or No Suspected OSS				0	LEE LN	vac
033018449090	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018449100	Vacant or No Suspected OSS				0	BEVERAGE ST	vac
033018510150	Vacant or No Suspected OSS				0	MARIOTT AVE	sfr
033018550000	Vacant or No Suspected OSS				0	ELIZABETH LN	util
033018550005	Vacant or No Suspected OSS				0	ELIZABETH LN	util
033018550220	Vacant or No Suspected OSS				0	ELIZABETH LN	sfr
033018550230	Vacant or No Suspected OSS				0	ELIZABETH LN	vac
033018550280	Vacant or No Suspected OSS				0	ELIZABETH LN	vac
033018610005	Vacant or No Suspected OSS				0		rd
033018630002	Vacant or No Suspected OSS				0		pub_os
033018630005	Vacant or No Suspected OSS				0		rd
033018630050	Vacant or No Suspected OSS				0	MARINERS DR	vac
033018630060	Vacant or No Suspected OSS				0	MARINERS DR	vac
033018630070	Vacant or No Suspected OSS				0	MARINERS DR	vac
033018630260	Vacant or No Suspected OSS				0		
033018630300	Vacant or No Suspected OSS				0	PUFFIN PL	vac
033018630310	Vacant or No Suspected OSS				0	PUFFIN PL	vac
033018630320	Vacant or No Suspected OSS				0	MARINERS DR	vac
033018630330	Vacant or No Suspected OSS				0	MARINERS DR	sfr
033018630360	Vacant or No Suspected OSS				0	MARINERS DR	vac
033018650002	Vacant or No Suspected OSS				0	MARINERS DR	mfr
033018650005	Vacant or No Suspected OSS				0		rd
033018650150	Vacant or No Suspected OSS				0	HERON WY	vac
033018650160	Vacant or No Suspected OSS				0	HERON WY	vac
033018650200	Vacant or No Suspected OSS				0	MARINERS WY	vac
033018650210	Vacant or No Suspected OSS				0	MARINERS WY	vac
033018650250	Vacant or No Suspected OSS				0	MARINERS WY	vac
033018650270	Vacant or No Suspected OSS				0		
033018650280	Vacant or No Suspected OSS				0		

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018650290	Vacant or No Suspected OSS				0		
033018680410	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
033018770130	Vacant or No Suspected OSS				0	KENDALL RD	vac
033019229070	Vacant or No Suspected OSS				0	HENDRICKSON RD	ag
033020110300	Vacant or No Suspected OSS				0	BLAKE AVE	tmbr
033020219010	Vacant or No Suspected OSS				0	SEQUIM DUNGENESS WY	mh
033020219020	Vacant or No Suspected OSS				0	DUNLAP AVE	vac
033020219040	Vacant or No Suspected OSS				0	DUNLAP AVE	vac
033020220005	Vacant or No Suspected OSS				0	SEQUIM AVE	vac
033020430100	Vacant or No Suspected OSS				0	HAMMOND ST	vac
033020440100	Vacant or No Suspected OSS				0	FOXFIRE LN	mh
033020440172	Vacant or No Suspected OSS				0	STILL RD	vac
033020440300	Vacant or No Suspected OSS				0	STILL RD	rd
033020580100	Vacant or No Suspected OSS				0	BELFIELD AVE	vac
033020580560	Vacant or No Suspected OSS				0	HAMMOND ST	util
033021110000	Vacant or No Suspected OSS				0	SCHMUCK RD	ag
033021118030	Vacant or No Suspected OSS				0	DAIRY VIEW LN	ag
033021140080	Vacant or No Suspected OSS				0	SCHMUCK RD	cml
033021140105	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	vac
033021229020	Vacant or No Suspected OSS				0	BELL MEADOW LN	vac
033021229030	Vacant or No Suspected OSS				0	BELL MEADOW LN	vac
033021229055	Vacant or No Suspected OSS				0	RHODEFER RD	pub_os
033021229095	Vacant or No Suspected OSS				0	RHODEFER RD	pub_os
033021229115	Vacant or No Suspected OSS				0	RHODEFER RD	tmbr
033021229135	Vacant or No Suspected OSS				0	RHODEFER RD	tmbr
033021229160	Vacant or No Suspected OSS				0	RHODEFER RD	tmbr
033021229170	Vacant or No Suspected OSS				0	RHODEFER RD	tmbr
033021420125	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	vac
033021429010	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033021500010	Vacant or No Suspected OSS				0	LIBERTY WY	sfr
033021500030	Vacant or No Suspected OSS				0	AMERICA BLVD	sfr
033021500050	Vacant or No Suspected OSS				0	AMERICA BLVD	sfr
033021500110	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500160	Vacant or No Suspected OSS				0	AMERICA BLVD	sfr
033021500180	Vacant or No Suspected OSS				0	AMERICA BLVD	vac
033021500230	Vacant or No Suspected OSS				0	LIBERTY WY	sfr
033021500280	Vacant or No Suspected OSS				0	AMERICA BLVD	sfr
033021500450	Vacant or No Suspected OSS				0	PATRIOT WY	vac
033021500460	Vacant or No Suspected OSS				0	PATRIOT WY	vac

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021500500	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500520	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500550	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500570	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500590	Vacant or No Suspected OSS				0	PATRIOT WY	sfr
033021500820	Vacant or No Suspected OSS				0	AMERICA BLVD	vac
033021500920	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021500940	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021500960	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021500980	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021501060	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021501080	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033021501100	Vacant or No Suspected OSS				0	INDEPENDENCE DR	sfr
033022110000	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	os
033022210010	Vacant or No Suspected OSS				0		sfr
033022210020	Vacant or No Suspected OSS				0	SCHMUCK RD	os
033022230000	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	ag
033022310010	Vacant or No Suspected OSS				0	ENCHANTMENT WY	vac
033022310020	Vacant or No Suspected OSS				0	ENCHANTMENT WY	tmbr
033022310040	Vacant or No Suspected OSS				0	ENCHANTMENT WY	vac
033022310130	Vacant or No Suspected OSS				0	ENCHANTMENT WY	vac
033022310160	Vacant or No Suspected OSS				0	ENCHANTMENT WY	vac
033022310170	Vacant or No Suspected OSS				0	ENCHANTMENT WY	vac
033022319010	Vacant or No Suspected OSS				0	JUNCO RD	vac
033022320010	Vacant or No Suspected OSS				0	TANAGER LANE	vac
033022320020	Vacant or No Suspected OSS				0	TANAGER LANE	vac
033022320030	Vacant or No Suspected OSS				0	TANAGER LANE	vac
033022320080	Vacant or No Suspected OSS				0	BIG FOOT LN	vac
033022330100	Vacant or No Suspected OSS				0	KEELER RD	vac
033022330130	Vacant or No Suspected OSS				0	OVER ST	vac
033022330150	Vacant or No Suspected OSS				0	OVER ST	vac
033022339010	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033022339020	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033022349050	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033022420000	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033022430000	Vacant or No Suspected OSS				0	WASHINGTON HARBOR RD	vac
033022430200	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033022430250	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033027330060	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033027330110	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033027330120	Vacant or No Suspected OSS				0	SHUNA LANE	vac
033027330130	Vacant or No Suspected OSS				0	SHAUNA LANE	os
033027330140	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330150	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330160	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330170	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	os
033027330185	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330200	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330207	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330215	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330225	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330235	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330245	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330265	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033027330330	Vacant or No Suspected OSS				0		
033027430150	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033027500006	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033027500030	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033027500070	Vacant or No Suspected OSS				0	FORREST RD	wtr
033028440150	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033028440200	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033030220050	Vacant or No Suspected OSS				0		pub
033030220200	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
033030220210	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
033030229180	Vacant or No Suspected OSS				0	SEVENTH ST	vac
033030330050	Vacant or No Suspected OSS				0	SEVENTH AVE	os
033030339020	Vacant or No Suspected OSS				0	SEVENTH AVE	os
033030339030	Vacant or No Suspected OSS				0	SEVENTH AVE	os
033030340000	Vacant or No Suspected OSS				0	PEACEFUL MEADOW LN	vac
033030340020	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033030340140	Vacant or No Suspected OSS				0	SEVENTH AVE	vac
033030349010	Vacant or No Suspected OSS				0	SEVENTH AVE	vac
033030349040	Vacant or No Suspected OSS				0	SEVENTH AVE	vac
033030349090	Vacant or No Suspected OSS				0	SEVENTH AVE	vac
033030430050	Vacant or No Suspected OSS				0	THIRD AVE	vac
033030439000	Vacant or No Suspected OSS				0	MISTY MEADOW LN	sfr
033030439060	Vacant or No Suspected OSS				0	MISTY MEADOW LN	vac
033030439070	Vacant or No Suspected OSS				0	MISTY MEADOW LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030440050	Vacant or No Suspected OSS				0	ECHO LN	vac
033030449020	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033030449050	Vacant or No Suspected OSS				0	THIRD AVE	vac
033031120010	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033031129050	Vacant or No Suspected OSS				0	OSPREY GLEN RD	sfr
033031129150	Vacant or No Suspected OSS				0	OSPREY GLEN RD	vac
033031130500	Vacant or No Suspected OSS				0	OSPREY GLEN RD	tmbr
033031130900	Vacant or No Suspected OSS				0	OSPREY GLEN RD	os
033031131000	Vacant or No Suspected OSS				0	OSPREY GLEN RD	tmbr
033031139050	Vacant or No Suspected OSS				0	OSPREY GLEN RD	vac
033031500250	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033031500550	Vacant or No Suspected OSS				0	LESTER WY	vac
033031500950	Vacant or No Suspected OSS				0	MCFARLAND DR	vac
033031501750	Vacant or No Suspected OSS				0	ANNABELLE LN	vac
033031509010	Vacant or No Suspected OSS				0	LESTER WY	os
033031509060	Vacant or No Suspected OSS				0	LESTER WAY	pub_os
033031520005	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520010	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520020	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520030	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520040	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520050	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520060	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520070	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520080	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520090	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520100	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520110	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520120	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520130	Vacant or No Suspected OSS				0	TOZZER LN	vac
033031520140	Vacant or No Suspected OSS				0	TOZZER LN	vac
033032130050	Vacant or No Suspected OSS				0	CEDAR RIDGE DR	vac
033032139000	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032139030	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032139040	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032139050	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032139060	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032139070	Vacant or No Suspected OSS				0	HILLSIDE DR	vac
033032220070	Vacant or No Suspected OSS				0	BELL CREEK LN	vac
033032220130	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	sfr
033032229030	Vacant or No Suspected OSS				0	BELL CREEK LN	vac

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032230010	Vacant or No Suspected OSS				0	DOE RUN RD	util
033032230040	Vacant or No Suspected OSS				0	DOE RUN RD	vac
033032239030	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	sfr
033032410040	Vacant or No Suspected OSS				0	CEDAR RIDGE DR	vac
033033110010	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033033110020	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033033110055	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033033110060	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033033110070	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033033110180	Vacant or No Suspected OSS				0	CLEARVIEW LN	vac
033033110185	Vacant or No Suspected OSS				0	CLEARVIEW LN	vac
033033110200	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033033120125	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033033120175	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033033129030	Vacant or No Suspected OSS				0	HEREFORD LN	vac
033033129040	Vacant or No Suspected OSS				0	HEREFORD LN	vac
033033129060	Vacant or No Suspected OSS				0	CLEARVIEW LANE	vac
033033129070	Vacant or No Suspected OSS				0	HEREFORD LN	vac
033033130010	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033033130100	Vacant or No Suspected OSS				0	HUFFMAN HEIGHTS RD	rd
033033130130	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
033033139010	Vacant or No Suspected OSS				0	HUFFMAN HEIGHTS RD	vac
033033139020	Vacant or No Suspected OSS				0	HUFFMAN HEIGHTS RD	vac
033033140010	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	os
033033140020	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	os
033033140050	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	rd
033033210060	Vacant or No Suspected OSS				0	COUGAR CREST RD	vac
033033219000	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033219010	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033219030	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033219050	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033219060	Vacant or No Suspected OSS				0	COUGAR CREST RD	vac
033033220100	Vacant or No Suspected OSS				0	MORGAN DR	tmbr
033033229010	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033230100	Vacant or No Suspected OSS				0	MORGAN DR	vac
033033230130	Vacant or No Suspected OSS				0	MORGAN DR	tmbr
033033230140	Vacant or No Suspected OSS				0	MORGAN DR	tmbr
033033240000	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033240050	Vacant or No Suspected OSS				0	PONY LN	vac
033033240130	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033240150	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033033249020	Vacant or No Suspected OSS				0	CHELSAMISH DR	vac
033033249050	Vacant or No Suspected OSS				0	CHELSAMISH DR	mh
033033500040	Vacant or No Suspected OSS				0	LANDGROVE LN	vac
033034120060	Vacant or No Suspected OSS				0	HWY 101	rd
033034120200	Vacant or No Suspected OSS				0	HWY 101	pub_os
033034120205	Vacant or No Suspected OSS				0		vac
033034129070	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033034129080	Vacant or No Suspected OSS				0	SEQUIM BAY RD	wtr
033034130013	Vacant or No Suspected OSS				0	SEQUIM BAY RD	rd
033034130025	Vacant or No Suspected OSS				0	SEQUIM BAY RD	tmbr
033034140000	Vacant or No Suspected OSS				0	SEQUIM BAY RD	ag
033034140015	Vacant or No Suspected OSS				0	SEQUIM BAY RD	rd
033034140075	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033034140130	Vacant or No Suspected OSS				0	SEQUIM BAY RD	sfr
033034140200	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033034140225	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033034140300	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
033034210002	Vacant or No Suspected OSS				0	PALO ALTO RD	tmbr
033034220010	Vacant or No Suspected OSS				0	CHRISTOPHER LN	vac
033034220020	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220030	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220050	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220060	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220080	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220090	Vacant or No Suspected OSS				0	CHRISTOPHER LANE	vac
033034220100	Vacant or No Suspected OSS				0	O'CONNOR DR	vac
033034220110	Vacant or No Suspected OSS				0	PAUL JOSEPH TERRACE	vac
033034220120	Vacant or No Suspected OSS				0	PAUL JOSEPH TERRACE	vac
033034220130	Vacant or No Suspected OSS				0	PAUL JOSEPH TERRACE	vac
033034220140	Vacant or No Suspected OSS				0	PAUL JOSEPH TERRACE	vac
033034220150	Vacant or No Suspected OSS				0	PAUL JOSEPH TERRACE	vac
033034220230	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033034220240	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033034220280	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033034220290	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033034220300	Vacant or No Suspected OSS				0	SHAUNA LANE	vac
033034220420	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220435	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220445	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220455	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220465	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033034220475	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220485	Vacant or No Suspected OSS				0	MICHAERL EARL WAY	vac
033034220490	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034220500	Vacant or No Suspected OSS				0	MICHAEL EARL WAY	vac
033034239005	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240010	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240020	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240025	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240030	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240040	Vacant or No Suspected OSS				0	MARSHALL RD	vac
033034240050	Vacant or No Suspected OSS				0	MARSHALL RD	sfr
033035239015	Vacant or No Suspected OSS				0	SEQUIM BAY RD	vac
043013110300	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	sfr
043013110375	Vacant or No Suspected OSS				0	ROBBINS RD	vac
043013110425	Vacant or No Suspected OSS				0	ROBBINS RD	vac
043013129020	Vacant or No Suspected OSS				0	ROBBINS RD	vac
043013130100	Vacant or No Suspected OSS				0	MCCOMB RD	util
043013130375	Vacant or No Suspected OSS				0	MCCOMB RD	vac
043013139190	Vacant or No Suspected OSS				0	SCOTT DR	vac
043013139200	Vacant or No Suspected OSS				0	MCCOMB RD	vac
043013139270	Vacant or No Suspected OSS				0	MCCOMB RD	vac
043013140075	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
043013149090	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
043013149100	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
043013149150	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
043013149200	Vacant or No Suspected OSS				0	OLD OLYMPIC HWY	vac
043013149240	Vacant or No Suspected OSS				0	OLD OLYMPIC HIGHWAY	pub_q
043013210055	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013210060	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013210065	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013210070	Vacant or No Suspected OSS				0	MCCOMB RD	rd
043013210075	Vacant or No Suspected OSS				0	MCCOMB RD	rd
043013210080	Vacant or No Suspected OSS				0	MCCOMB RD	rd
043013210085	Vacant or No Suspected OSS				0	MCCOMB RD	rd
043013229010	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013229020	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013229050	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013229060	Vacant or No Suspected OSS				0	MCCOMB RD	ag
043013230040	Vacant or No Suspected OSS				0	RIVERVIEW DR	ag
043013230080	Vacant or No Suspected OSS				0	MEADOWMEER LN	ag
043013239090	Vacant or No Suspected OSS				0	MEADOWMEER LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013239140	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043013249120	Vacant or No Suspected OSS				0	MCCOMB RD	vac
043013249160	Vacant or No Suspected OSS				0	MCCOMB LN	ag
043013310075	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013310075	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013320060	Vacant or No Suspected OSS				0	APPLEGATE LN	ag
043013320070	Vacant or No Suspected OSS				0	APPLEGATE LN	ag
043013330025	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013330025	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013330025	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013339070	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013339130	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013339140	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013339150	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013340020	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013340025	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013349060	Vacant or No Suspected OSS				0	LOIS LN	vac
043013349110	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013349120	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013349170	Vacant or No Suspected OSS				0	LOIS LN	vac
043013419130	Vacant or No Suspected OSS				0	WILLIAMSON RD	vac
043013419160	Vacant or No Suspected OSS				0	WILLIAMSON RD	vac
043013419210	Vacant or No Suspected OSS				0	WILLIAMSON RD	vac
043013429140	Vacant or No Suspected OSS				0	WILLIAMSON RD	vac
043013430150	Vacant or No Suspected OSS				0	WRIGHT RD	vac
043013430175	Vacant or No Suspected OSS				0	WRIGHT RD	vac
043013439020	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013439030	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013439040	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043013439060	Vacant or No Suspected OSS				0	HENDRICKSON RD	os
043013439070	Vacant or No Suspected OSS				0	HENDRICKSON RD	os
043013439080	Vacant or No Suspected OSS				0	HENDRICKSON RD	os
043013439100	Vacant or No Suspected OSS				0	WRIGHT RD	vac
043013449020	Vacant or No Suspected OSS				0	WRIGHT RD	vac
043013449110	Vacant or No Suspected OSS				0	KENDALL RD	vac
043013449220	Vacant or No Suspected OSS				0	WRIGHT RD	vac
043013500040	Vacant or No Suspected OSS				0	SCOTT DR	vac
043013500225	Vacant or No Suspected OSS				0	ROBBINS RD	mh
043013500230	Vacant or No Suspected OSS				0	ROBBINS RD	vac
043013509030	Vacant or No Suspected OSS				0	SCOTT DR	vac
043013509170	Vacant or No Suspected OSS				0	BEESON RD	vac

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PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043013520010	Vacant or No Suspected OSS				0	BEESON RD	vac
043013520020	Vacant or No Suspected OSS				0	BEESON RD	vac
043014149010	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043014149030	Vacant or No Suspected OSS				0	RIVERVIEW DR	os
043014149040	Vacant or No Suspected OSS				0	MCCOMB RD	os
043014149060	Vacant or No Suspected OSS				0	RIVERSIDE RD	vac
043014149090	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043014149100	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043014149120	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043014419020	Vacant or No Suspected OSS				0	RIVERVIEW DR	vac
043023110225	Vacant or No Suspected OSS				0		tribe
043023440030	Vacant or No Suspected OSS				0	HEAD GATE RD	vac
043023440040	Vacant or No Suspected OSS				0	HEAD GATE RD	os
043023440155	Vacant or No Suspected OSS				0		rd
043023449080	Vacant or No Suspected OSS				0	TURNSTONE LN	rd
043023449090	Vacant or No Suspected OSS				0	TURNSTONE LN	vac
043023449100	Vacant or No Suspected OSS				0	HEAD GATE RD	vac
043024100000	Vacant or No Suspected OSS				0		rd
043024110050	Vacant or No Suspected OSS				0		vac
043024120140	Vacant or No Suspected OSS				0	PRIEST LN	exempt
043024129010	Vacant or No Suspected OSS				0	PRIEST RD	vac
043024129120	Vacant or No Suspected OSS				0	PRIEST RD	vac
043024130150	Vacant or No Suspected OSS				0	SPRUCE CT	vac
043024130200	Vacant or No Suspected OSS				0	PRIEST RD	vac
043024130225	Vacant or No Suspected OSS				0	BRACKETT RD	vac
043024140100	Vacant or No Suspected OSS				0		rd
043024200000	Vacant or No Suspected OSS				0		rd
043024210000	Vacant or No Suspected OSS				0	HENDRICKSON RD	ag
043024219080	Vacant or No Suspected OSS				0	PRIEST RD	vac
043024220025	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043024220050	Vacant or No Suspected OSS				0		vac
043024220075	Vacant or No Suspected OSS				0	HENDRICKSON RD	vac
043024220100	Vacant or No Suspected OSS				0		vac
043024220210	Vacant or No Suspected OSS				0	HENDRICKSON RD	tribe
043024220225	Vacant or No Suspected OSS				0		rd
043024220250	Vacant or No Suspected OSS				0	GREEN BRIAR LN	ag
043024220400	Vacant or No Suspected OSS				0	PRIEST LN	vac
043024320030	Vacant or No Suspected OSS				0	W WASHINGTON	sfr
043024320040	Vacant or No Suspected OSS				0	W WASHINGTON	sfr
043024329070	Vacant or No Suspected OSS				0	GRACE LN	vac
043024330000	Vacant or No Suspected OSS				0	GRANT RD	rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024330020	Vacant or No Suspected OSS				0		exempt
043024330050	Vacant or No Suspected OSS				0	TURNSTONE LN	vac
043024349240	Vacant or No Suspected OSS				0	TURNSTONE LN	vac
043025120125	Vacant or No Suspected OSS				0	RIVER RD	vac
043025129090	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
043025129110	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
043025129160	Vacant or No Suspected OSS				0	SILBER LN	vac
043025130030	Vacant or No Suspected OSS				0	VIKING WY	vac
043025130125	Vacant or No Suspected OSS				0	RIVER RD	vac
043025130150	Vacant or No Suspected OSS				0	RIVER RD	vac
043025139050	Vacant or No Suspected OSS				0	VIKING WY	vac
043025139110	Vacant or No Suspected OSS				0	RIVER RD	vac
043025139300	Vacant or No Suspected OSS				0	E SILBERHORN RD	sfr
043025139310	Vacant or No Suspected OSS				0	E SILBERHORN RD	sfr
043025149030	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
043025149050	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149070	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149170	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149190	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149200	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149290	Vacant or No Suspected OSS				0	FALCON RD	vac
043025149320	Vacant or No Suspected OSS				0	FALCON RD	vac
043025149340	Vacant or No Suspected OSS				0	FALCON RD	vac
043025149360	Vacant or No Suspected OSS				0	PHEASANT LN	vac
043025149500	Vacant or No Suspected OSS				0	SILBERHORN RD	vac
043025219040	Vacant or No Suspected OSS				0	SILBERHORN RD	pub_os
043025219050	Vacant or No Suspected OSS				0	SILBERHORN RD	pub_os
043025219060	Vacant or No Suspected OSS				0	SILBERHORN RD	pub_os
043025219130	Vacant or No Suspected OSS				0	RIVER RD	sfr
043025230250	Vacant or No Suspected OSS				0	RIVERSIDE RD	vac
043025249050	Vacant or No Suspected OSS				0	ASLAN DR	vac
043025310225	Vacant or No Suspected OSS				0	RIVER RD	vac
043025310325	Vacant or No Suspected OSS				0	DEERHAVEN DR	vac
043025319020	Vacant or No Suspected OSS				0	RIVER RD	vac
043025319130	Vacant or No Suspected OSS				0	DEERHAVEN DR	vac
043025319150	Vacant or No Suspected OSS				0	LORRAINE DR	sfr
043025320000	Vacant or No Suspected OSS				0	RIVERSIDE RD	vac
043025320025	Vacant or No Suspected OSS				0	RIVERSIDE RD	vac
043025320130	Vacant or No Suspected OSS				0	SECOR RD	util
043025329070	Vacant or No Suspected OSS				0	SECOR RD	vac
043025329080	Vacant or No Suspected OSS				0	SECOR RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025329090	Vacant or No Suspected OSS				0	SECOR RD	vac
043025329120	Vacant or No Suspected OSS				0	TIMBERSIDE LN	mh
043025339000	Vacant or No Suspected OSS				0	KANE LN	vac
043025339085	Vacant or No Suspected OSS				0	KANE LN	vac
043025339100	Vacant or No Suspected OSS				0	KANE LN	vac
043025339130	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339140	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339150	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339160	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339240	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339250	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339260	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025339270	Vacant or No Suspected OSS				0	WALLACE WY	vac
043025340075	Vacant or No Suspected OSS				0		rd
043025349040	Vacant or No Suspected OSS				0	RIVER RD	vac
043025419070	Vacant or No Suspected OSS				0	QUAIL LN	vac
043025419170	Vacant or No Suspected OSS				0	FALCON RD	vac
043025419180	Vacant or No Suspected OSS				0	FALCON RD	vac
043025420075	Vacant or No Suspected OSS				0	AVELLANA RD	vac
043025420150	Vacant or No Suspected OSS				0	AVELLANA RD	vac
043025420175	Vacant or No Suspected OSS				0	AVELLANA RD	vac
043025429070	Vacant or No Suspected OSS				0	AVELLANA RD	vac
043025523500	Vacant or No Suspected OSS				0	BURNT MOUNTAIN PL	exempt
043025540080	Vacant or No Suspected OSS				0	SUMMERSET CT	vac
043025550200	Vacant or No Suspected OSS				0	VALLEY VIEW DR	mfr
043026119060	Vacant or No Suspected OSS				0	GRANT RD	vac
043026119070	Vacant or No Suspected OSS				0	SPRING CRK DR	vac
043026140130	Vacant or No Suspected OSS				0	RIVERSIDE RD	tmbr
043026140160	Vacant or No Suspected OSS				0	RIVERSIDE RD	tmbr
043026410025	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	vac
043026410075	Vacant or No Suspected OSS				0		vac
043026410100	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	pub
043026440075	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026500140	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	mh
043026500160	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	mh
043026500170	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026500240	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	mh
043026500500	Vacant or No Suspected OSS				0		rd
043026510260	Vacant or No Suspected OSS				0		rd
043026520160	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026520240	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043026520720	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026520740	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	vac
043026520780	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026520880	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026520940	Vacant or No Suspected OSS				0		rd
043026530120	Vacant or No Suspected OSS				0	RIVERSIDE RD	pub_os
043026530450	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026530550	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	pub
043026530710	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026530770	Vacant or No Suspected OSS				0		sfr
043026530870	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026530990	Vacant or No Suspected OSS				0		rd
043026540150	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026540160	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026540420	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	sfr
043026540755	Vacant or No Suspected OSS				0	DUNGENESS MEADOWS	mh
043026540820	Vacant or No Suspected OSS				0		rd
043026540835	Vacant or No Suspected OSS				0		rd
043036110025	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	vac
043036119010	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	os
043036119020	Vacant or No Suspected OSS				0	HAPPY VALLEY RD	os
043036129000	Vacant or No Suspected OSS				0	WAGNER RD	vac
043036129100	Vacant or No Suspected OSS				0	WAGNER LN	vac
043036129110	Vacant or No Suspected OSS				0	WAGNER LN	vac
043036129160	Vacant or No Suspected OSS				0	RIVER RD	vac
043036129170	Vacant or No Suspected OSS				0	RIVER RD	vac
043036129180	Vacant or No Suspected OSS				0	RIVER RD	vac
043036129190	Vacant or No Suspected OSS				0	RIVER RD	vac
033015road48	Vacant or No Suspected OSS				0		rd
033015road59	Vacant or No Suspected OSS				0		rd
033016road53	Vacant or No Suspected OSS				0		rd
033016road62	Vacant or No Suspected OSS				0		rd
033016road63	Vacant or No Suspected OSS				0		rd
033016road76	Vacant or No Suspected OSS				0		rd
033016road89	Vacant or No Suspected OSS				0		rd
033016road95	Vacant or No Suspected OSS				0		rd
033017road01	Vacant or No Suspected OSS				0		rd
033017road03	Vacant or No Suspected OSS				0		rd
033018hold19	Vacant or No Suspected OSS				0		
033018road36	Vacant or No Suspected OSS				0		rd
033018road40	Vacant or No Suspected OSS				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018road56	Vacant or No Suspected OSS				0		rd
033018road75	Vacant or No Suspected OSS				0		rd
033018road84	Vacant or No Suspected OSS				0		rd
033018road88	Vacant or No Suspected OSS				0		rd
033018road93	Vacant or No Suspected OSS				0		rd
033019road44	Vacant or No Suspected OSS				0		rd
033020road37	Vacant or No Suspected OSS				0		rd
033021road18	Vacant or No Suspected OSS				0		rd
033021road54	Vacant or No Suspected OSS				0		rd
033021road57	Vacant or No Suspected OSS				0		rd
033021road59	Vacant or No Suspected OSS				0		rd
033022road01	Vacant or No Suspected OSS				0		rd
033022road52	Vacant or No Suspected OSS				0		rd
033022road86	Vacant or No Suspected OSS				0		rd
033022road97	Vacant or No Suspected OSS				0		rd
033027road43	Vacant or No Suspected OSS				0		rd
033028road49	Vacant or No Suspected OSS				0		rd
033030road25	Vacant or No Suspected OSS				0		rd
033030road26	Vacant or No Suspected OSS				0		rd
033030road35	Vacant or No Suspected OSS				0		rd
033030road80	Vacant or No Suspected OSS				0		rd
033033road70	Vacant or No Suspected OSS				0		rd
033033road87	Vacant or No Suspected OSS				0		rd
033034road06	Vacant or No Suspected OSS				0		rd
033034road11	Vacant or No Suspected OSS				0		rd
033034road31	Vacant or No Suspected OSS				0		rd
033034road77	Vacant or No Suspected OSS				0		rd
043013road01	Vacant or No Suspected OSS				0		rd
043013road08	Vacant or No Suspected OSS				0		rd
043013road09	Vacant or No Suspected OSS				0		rd
043013road13	Vacant or No Suspected OSS				0		rd
043013road14	Vacant or No Suspected OSS				0		rd
043013road15	Vacant or No Suspected OSS				0		rd
043013road25	Vacant or No Suspected OSS				0		rd
043013road30	Vacant or No Suspected OSS				0		rd
043013road39	Vacant or No Suspected OSS				0		rd
043013road87	Vacant or No Suspected OSS				0		rd
043013road91	Vacant or No Suspected OSS				0		rd
043024road80	Vacant or No Suspected OSS				0		rd
043025road03	Vacant or No Suspected OSS				0		rd
043025road17	Vacant or No Suspected OSS				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043025road24	Vacant or No Suspected OSS				0		rd
043025road30	Vacant or No Suspected OSS				0		rd
043025road41	Vacant or No Suspected OSS				0		rd
043025road44	Vacant or No Suspected OSS				0		rd
043025road64	Vacant or No Suspected OSS				0		rd
043025road70	Vacant or No Suspected OSS				0		rd
043025road74	Vacant or No Suspected OSS				0		rd
043026road25	Vacant or No Suspected OSS				0		rd
043026road40	Vacant or No Suspected OSS				0		rd
043026road51	Vacant or No Suspected OSS				0		rd
043026road83	Vacant or No Suspected OSS				0		rd
033017210200	Vacant or Other within Sewer Service Area				0	PORT WILLIAMS RD	vac
033017210230	Vacant or Other within Sewer Service Area				0		pub_os
033017520110	Vacant or Other within Sewer Service Area				0	SEQUIM DUNGENESS WY	vac
033017520120	Vacant or Other within Sewer Service Area				0	SEQUIM DUNGENESS WY	vac
033017540001	Vacant or Other within Sewer Service Area				0	ROYAL LOOP	rd
033017540002	Vacant or Other within Sewer Service Area				0	ROYAL LOOP	vac
033017540003	Vacant or Other within Sewer Service Area				0	ROYAL LOOP	vac
033017540004	Vacant or Other within Sewer Service Area				0	ROYAL LOOP	vac
033017540010	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540020	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540030	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540040	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540050	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540060	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033017540070	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540080	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540100	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540140	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540160	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540170	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540180	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540190	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540200	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540210	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540230	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540240	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540250	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540260	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540270	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540280	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540290	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540300	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033017540310	Vacant or Other within Sewer Service Area				0	ROYAL LP	vac
033018319010	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018319020	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018319030	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018330000	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac
033018410150	Vacant or Other within Sewer Service Area				0	SEQUIM DUNGENESS WY	vac
033018430120	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018439080	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018439140	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018439150	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018440110	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	pub_q
033018560000	Vacant or Other within Sewer Service Area				0	BAKEHOUSE CT	mfr
033018560005	Vacant or Other within Sewer Service Area				0		rd
033018570000	Vacant or Other within Sewer Service Area				0	ABBEY CT	mfr
033018570005	Vacant or Other within Sewer Service Area				0		rd
033018580000	Vacant or Other within Sewer Service Area				0	MINSTREL RD	mfr
033018580005	Vacant or Other within Sewer Service Area				0		rd
033018620650	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033018739020	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033018739030	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033018739050	Vacant or Other within Sewer Service Area				0	OLD OLYMPIC HWY	vac
033018739060	Vacant or Other within Sewer Service Area				0	OLD OLYMPIC HWY	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018780002	Vacant or Other within Sewer Service Area				0		pub_os
033018790200	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790210	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790220	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790290	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790300	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790310	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790320	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790360	Vacant or Other within Sewer Service Area				0	LINDSAY LN	vac
033018790410	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	vac
033018790440	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	pub_os
033018790450	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	pub_os
033018790460	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	pub_os
033018790470	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	pub_os
033018790480	Vacant or Other within Sewer Service Area				0	NEW MEADOW LP	rd
033018800000	Vacant or Other within Sewer Service Area				0	MINSTREL RD #952	vac
033018800002	Vacant or Other within Sewer Service Area				0		vac
033018800005	Vacant or Other within Sewer Service Area				0		pub_os
033018810010	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810030	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018810070	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810080	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810090	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810100	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810110	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810120	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810130	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810140	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810160	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810210	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810230	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810240	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810250	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810260	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810340	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810350	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810410	Vacant or Other within Sewer Service Area				0	NESTING PL	vac
033018810450	Vacant or Other within Sewer Service Area				0	NESTING PL	vac
033018810500	Vacant or Other within Sewer Service Area				0	PERCH DR	vac
033018810530	Vacant or Other within Sewer Service Area				0	PERCH DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018810550	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810570	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018810580	Vacant or Other within Sewer Service Area				0	CHOICE LP	vac
033018820010	Vacant or Other within Sewer Service Area				0	TALUS DR	vac
033018820020	Vacant or Other within Sewer Service Area				0	TALUS DR	vac
033018820060	Vacant or Other within Sewer Service Area				0	TALUS DR	vac
033018820160	Vacant or Other within Sewer Service Area				0		pub_os
033019110000	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	pub
033019120040	Vacant or Other within Sewer Service Area				0	FIR ST	pub
033019120070	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019129010	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac
033019129040	Vacant or Other within Sewer Service Area				0		pub
033019210040	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac
033019210060	Vacant or Other within Sewer Service Area				0	FIR STREET	pub_q
033019219010	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac
033019219030	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033019219070	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac
033019219090	Vacant or Other within Sewer Service Area				0	GARRY OAK DR	vac
033019219170	Vacant or Other within Sewer Service Area				0	GARRY OAK DR	vac
033019219180	Vacant or Other within Sewer Service Area				0	GARRY OAK DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019219200	Vacant or Other within Sewer Service Area				0	GARRY OAK DR	vac
033019219210	Vacant or Other within Sewer Service Area				0	GARRY OAK DR	vac
033019230100	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033019239000	Vacant or Other within Sewer Service Area				0	BRACKETT RD	vac
033019239010	Vacant or Other within Sewer Service Area				0	BRACKETT RD	vac
033019239030	Vacant or Other within Sewer Service Area				0	BRACKETT RD	vac
033019239160	Vacant or Other within Sewer Service Area				0	TOMMY COURT	vac
033019319170	Vacant or Other within Sewer Service Area				0	MAPLE ST	vac
033019319180	Vacant or Other within Sewer Service Area				0	MAPLE ST	vac
033019320030	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033019320170	Vacant or Other within Sewer Service Area				0	SHAW LN	vac
033019330220	Vacant or Other within Sewer Service Area				0	PINE ST	rd
033019330230	Vacant or Other within Sewer Service Area				0	PINE ST	rd
033019339010	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019339040	Vacant or Other within Sewer Service Area				0	GILLIS AVE	vac
033019340400	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033019340450	Vacant or Other within Sewer Service Area				0	MCCURDY RD	vac
033019349060	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033019349170	Vacant or Other within Sewer Service Area				0	OLALLEE LN	rd
033019349180	Vacant or Other within Sewer Service Area				0	HEMLOCK ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019430140	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033019439010	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019439020	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019439060	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019439070	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019439080	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019439100	Vacant or Other within Sewer Service Area				0	PINE ST	vac
033019440000	Vacant or Other within Sewer Service Area				0	HEMLOCK ST	vac
033019440010	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033019440045	Vacant or Other within Sewer Service Area				0	SECOND AVE	exempt
033019440050	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033019440190	Vacant or Other within Sewer Service Area				0	THIRD AVE	util
033019440230	Vacant or Other within Sewer Service Area				0	THIRD AVE	rd
033019440280	Vacant or Other within Sewer Service Area				0	THIRD AVE	util
033019449020	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033019449030	Vacant or Other within Sewer Service Area				0	THIRD AVE	util
033019449045	Vacant or Other within Sewer Service Area				0	THIRD AVE	pub_os
033019500118	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033019500120	Vacant or Other within Sewer Service Area				0	BELL ST	util
033019500208	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019500400	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033019500420	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033019500422	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033019500518	Vacant or Other within Sewer Service Area				0	PRAIRIE ST	util
033019500814	Vacant or Other within Sewer Service Area				0	PRAIRIE ST	vac
033019500836	Vacant or Other within Sewer Service Area				0	HAMMOND ST	vac
033019510228	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033019510230	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033019511006	Vacant or Other within Sewer Service Area				0	CEDAR ST	vac
033019511008	Vacant or Other within Sewer Service Area				0	CEDAR ST	vac
033019511010	Vacant or Other within Sewer Service Area				0	THIRD AVE	mhp
033019511318	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033019511320	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033019519072	Vacant or Other within Sewer Service Area				0	SPRUCE ST	vac
033019519074	Vacant or Other within Sewer Service Area				0	SPRUCE ST	vac
033019519110	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033019519130	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	ldg
033019520234	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033019530184	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033019550316	Vacant or Other within Sewer Service Area				0	CEDAR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019560172	Vacant or Other within Sewer Service Area				0	SPRUCE ST	vac
033019570117	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033019590122	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033019590240	Vacant or Other within Sewer Service Area				0	MAPLE ST	vac
033019600250	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033019600300	Vacant or Other within Sewer Service Area				0	MAPLE ST	vac
033019650140	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019730100	Vacant or Other within Sewer Service Area				0	SALAL PL	rd
033019730130	Vacant or Other within Sewer Service Area				0	SALAL PL	vac
033019790030	Vacant or Other within Sewer Service Area				0	FIFTH PL	rd
033019790060	Vacant or Other within Sewer Service Area				0	FIFTH PL	rd
033019790090	Vacant or Other within Sewer Service Area				0	SALAL PL	rd
033019790100	Vacant or Other within Sewer Service Area				0	SALAL PL	rd
033019790110	Vacant or Other within Sewer Service Area				0	SALAL PL	rd
033019790130	Vacant or Other within Sewer Service Area				0	SALAL PL	rd
033019800090	Vacant or Other within Sewer Service Area				0	PINE CT	vac
033019800120	Vacant or Other within Sewer Service Area				0	PINE CT	vac
033019820000	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	mhp
033019820560	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033019820570	Vacant or Other within Sewer Service Area				0	HENDRICKSON RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019830040	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033019830060	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033019840040	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019840050	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019840060	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019850070	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019850080	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019850090	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019850100	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019850110	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019850120	Vacant or Other within Sewer Service Area				0	SIXTH PL	vac
033019870100	Vacant or Other within Sewer Service Area				0	FIFTH AVE	vac
033019880260	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880280	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880290	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880320	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880360	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880410	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880440	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac
033019880450	Vacant or Other within Sewer Service Area				0	SUMMER BREEZE LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019890230	Vacant or Other within Sewer Service Area				0	PINE CONE CT	vac
033019890240	Vacant or Other within Sewer Service Area				0	PINE CONE CT	vac
033019900020	Vacant or Other within Sewer Service Area				0	EUREKA WY	vac
033019900030	Vacant or Other within Sewer Service Area				0	EUREKA WY	vac
033019900040	Vacant or Other within Sewer Service Area				0	EUREKA WY	vac
033019900070	Vacant or Other within Sewer Service Area				0	EUREKA WY	vac
033019900080	Vacant or Other within Sewer Service Area				0	EUREKA WY	vac
033020110110	Vacant or Other within Sewer Service Area				0	BLAKE AVE	util
033020140010	Vacant or Other within Sewer Service Area				0	BLAKE AVE	util
033020140050	Vacant or Other within Sewer Service Area				0	BLAKE AVE	pub_os
033020140080	Vacant or Other within Sewer Service Area				0	BLAKE AVE	util
033020210035	Vacant or Other within Sewer Service Area				0	BROWN RD	rd
033020210055	Vacant or Other within Sewer Service Area				0		rd
033020210120	Vacant or Other within Sewer Service Area				0	BROWN ROAD	pub_q
033020230020	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	util
033020230050	Vacant or Other within Sewer Service Area				0	SEQUIM DUNGENESS WY	vac
033020230160	Vacant or Other within Sewer Service Area				0	SUNNYSIDE AVE	vac
033020230210	Vacant or Other within Sewer Service Area				0	SUNNYSIDE AVE	vac
033020240000	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	util
033020310005	Vacant or Other within Sewer Service Area				0	BROWN RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020310007	Vacant or Other within Sewer Service Area				0		exempt
033020310075	Vacant or Other within Sewer Service Area				0	BROWN RD	vac
033020310170	Vacant or Other within Sewer Service Area				0	HWY 101	vac
033020319070	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033020329020	Vacant or Other within Sewer Service Area				0	PRAIRIE ST	vac
033020329050	Vacant or Other within Sewer Service Area				0	PRAIRIE ST	vac
033020329070	Vacant or Other within Sewer Service Area				0	SUNNYSIDE AVE	pub
033020330000	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033020330015	Vacant or Other within Sewer Service Area				0	BROWNFIELD RD	ag
033020340000	Vacant or Other within Sewer Service Area				0	BROWN RD	pub_os
033020340100	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	ag
033020340110	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033020410010	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033020410020	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033020410120	Vacant or Other within Sewer Service Area				0		rd
033020420010	Vacant or Other within Sewer Service Area				0	HAMMOND ST	pub
033020420060	Vacant or Other within Sewer Service Area				0	BROWN RD	vac
033020420065	Vacant or Other within Sewer Service Area				0	WASHINGTON PL	vac
033020420075	Vacant or Other within Sewer Service Area				0	STILL RD	rd
033020420080	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020429030	Vacant or Other within Sewer Service Area				0	BROWN RD	vac
033020429120	Vacant or Other within Sewer Service Area				0	LEE CHATFIELD AVE	vac
033020429130	Vacant or Other within Sewer Service Area				0	HAMMOND ST	vac
033020429140	Vacant or Other within Sewer Service Area				0	PALMCO WY	vac
033020429150	Vacant or Other within Sewer Service Area				0	HAMMOND ST	vac
033020429160	Vacant or Other within Sewer Service Area				0	PALMCO WY	vac
033020429170	Vacant or Other within Sewer Service Area				0	PALMCO WY	vac
033020429180	Vacant or Other within Sewer Service Area				0	BROWN RD	vac
033020429190	Vacant or Other within Sewer Service Area				0	BROWN RD	vac
033020429200	Vacant or Other within Sewer Service Area				0	W WASHINGTON ST	vac
033020429210	Vacant or Other within Sewer Service Area				0	W WASHINGTON ST	vac
033020429220	Vacant or Other within Sewer Service Area				0	W WASHINGTON ST	vac
033020430055	Vacant or Other within Sewer Service Area				0	STILL RD	rd
033020439000	Vacant or Other within Sewer Service Area				0	HAMMOND ST	vac
033020440030	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033020440070	Vacant or Other within Sewer Service Area				0	STILL RD	vac
033020447010	Vacant or Other within Sewer Service Area				0	HWY 101	vac
033020447050	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033020447070	Vacant or Other within Sewer Service Area				0	HWY 101	vac
033020447080	Vacant or Other within Sewer Service Area				0	HWY 101	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020500128	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033020510275	Vacant or Other within Sewer Service Area				0		rd
033020510282	Vacant or Other within Sewer Service Area				0		rd
033020510290	Vacant or Other within Sewer Service Area				0	BELL ST	pub_q
033020520205	Vacant or Other within Sewer Service Area				0	MAPLE ST	pub_q
033020520421	Vacant or Other within Sewer Service Area				0	HAMMOND ST	vac
033020530120	Vacant or Other within Sewer Service Area				0	SUNNYSIDE AVE	vac
033020540132	Vacant or Other within Sewer Service Area				0		rd
033020560100	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	util
033020630278	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033020650206	Vacant or Other within Sewer Service Area				0	ALDER ST	vac
033020680040	Vacant or Other within Sewer Service Area				0	SPRUCE ST	vac
033020700150	Vacant or Other within Sewer Service Area				0	CEDAR ST	vac
033020710000	Vacant or Other within Sewer Service Area				0	BLAKE AVE	vac
033020719040	Vacant or Other within Sewer Service Area				0	CEDAR ST	vac
033020730120	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033020730140	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033020730150	Vacant or Other within Sewer Service Area				0	FIR ST	vac
033020750340	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020750600	Vacant or Other within Sewer Service Area				0	OAK ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020750700	Vacant or Other within Sewer Service Area				0	OAK ST	vac
033020750727	Vacant or Other within Sewer Service Area				0	E OAK ST	vac
033020760000	Vacant or Other within Sewer Service Area				0	BELL ST	vac
033020770980	Vacant or Other within Sewer Service Area				0	OAK WOOD DR	vac
033020790010	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033020790020	Vacant or Other within Sewer Service Area				0	CENTER PARK WAY	vac
033020790060	Vacant or Other within Sewer Service Area				0	CENTER PARK WAY	vac
033020790070	Vacant or Other within Sewer Service Area				0	CENTER PARKWAY	vac
033020790080	Vacant or Other within Sewer Service Area				0	Center Parkway	vac
033020790090	Vacant or Other within Sewer Service Area				0	CENTER PARK WAY	vac
033020790100	Vacant or Other within Sewer Service Area				0	Washington St.	vac
033020810020	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810030	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810040	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810090	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810100	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810140	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810160	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020810170	Vacant or Other within Sewer Service Area				0	ELK HORN LP	vac
033020820040	Vacant or Other within Sewer Service Area				0	KNAPMAN AVE	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020820080	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820100	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820110	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820120	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820130	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820140	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820150	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820180	Vacant or Other within Sewer Service Area				0	WILLOW ST	vac
033020820190	Vacant or Other within Sewer Service Area				0	KNAPMAN AVE	vac
033020820210	Vacant or Other within Sewer Service Area				0	WILLOW ST	rd
033020840005	Vacant or Other within Sewer Service Area				0	MAPLE ST	vac
033021110110	Vacant or Other within Sewer Service Area				0	SCHMUCK RD	util
033021110120	Vacant or Other within Sewer Service Area				0	SCHMUCK RD	util
033021210170	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210180	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210190	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210200	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210210	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210220	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021210230	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021210240	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021230050	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	exempt
033021230080	Vacant or Other within Sewer Service Area				0	RHODEFER RD	tmbr
033021230100	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033021240135	Vacant or Other within Sewer Service Area				0		vac
033021240145	Vacant or Other within Sewer Service Area				0		vac
033021240155	Vacant or Other within Sewer Service Area				0		vac
033021240160	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021310010	Vacant or Other within Sewer Service Area				0	WASHINGTON HARBOR RD	vac
033021310020	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021310030	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	ag
033021310040	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	ag
033021310160	Vacant or Other within Sewer Service Area				0		rd
033021320010	Vacant or Other within Sewer Service Area				0	RHODEFER RD	tmbr
033021320030	Vacant or Other within Sewer Service Area				0	OLD COYOTE WY	vac
033021320050	Vacant or Other within Sewer Service Area				0	OLD COYOTE WY	vac
033021329030	Vacant or Other within Sewer Service Area				0	OLD COYOTE WY	vac
033021329040	Vacant or Other within Sewer Service Area				0	OLD COYOTE WY	vac
033021329150	Vacant or Other within Sewer Service Area				0	TORRES CT	rd
033021330020	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021330022	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033021330025	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021330039	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033021340090	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	ag
033021430090	Vacant or Other within Sewer Service Area				0	BELL BOTTOM RD	vac
033021439040	Vacant or Other within Sewer Service Area				0	BELL BOTTOM RD	vac
033021440020	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033021440120	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033021449010	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033021510000	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021510060	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021510080	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021510150	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021510185	Vacant or Other within Sewer Service Area				0		vac
033021510280	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021510300	Vacant or Other within Sewer Service Area				0	ELK LOOP	vac
033021520010	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520030	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520040	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520050	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021520070	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520080	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520090	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520100	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520110	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520120	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520130	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520140	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520150	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520160	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520170	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520180	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520190	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520200	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520210	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520220	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520230	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520250	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520260	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520270	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021520280	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520290	Vacant or Other within Sewer Service Area				0	BELL BOTTOM LN	vac
033021520300	Vacant or Other within Sewer Service Area				0	BELL BOTTOM LN	vac
033021520320	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520330	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520340	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520350	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520360	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520370	Vacant or Other within Sewer Service Area				0	YVETTE PL	vac
033021520380	Vacant or Other within Sewer Service Area				0	SUNDAE DR	vac
033021520390	Vacant or Other within Sewer Service Area				0	SUNDAE DR	vac
033021520400	Vacant or Other within Sewer Service Area				0	SUNDAE DR	vac
033021520410	Vacant or Other within Sewer Service Area				0	MORRISON LP	vac
033021520420	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520430	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520440	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520450	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520460	Vacant or Other within Sewer Service Area				0		vac
033021520470	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520480	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021520490	Vacant or Other within Sewer Service Area				0	MORGISON LP	vac
033021520520	Vacant or Other within Sewer Service Area				0		rd
033021520530	Vacant or Other within Sewer Service Area				0		pub_os
033021520540	Vacant or Other within Sewer Service Area				0		rd
033021530002	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	rd
033021530005	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	wtr
033021530030	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530040	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530050	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530060	Vacant or Other within Sewer Service Area				0	FAIR WEATHER	vac
033021530070	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530080	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530090	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530100	Vacant or Other within Sewer Service Area				0	FAIR WEATHER DR	vac
033021530390	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530400	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530430	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530440	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530450	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530460	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021530550	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530560	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530570	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530580	Vacant or Other within Sewer Service Area				0	STRATUS LP	vac
033021530630	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530640	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530650	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530660	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530670	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530680	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530690	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530700	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530710	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021530720	Vacant or Other within Sewer Service Area				0	NIMBUS LP	vac
033021540005	Vacant or Other within Sewer Service Area				0		vac
033021540010	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540020	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540030	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540040	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540050	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021540060	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540070	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540080	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540090	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540100	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540110	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540120	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540130	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540140	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540150	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540160	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540170	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540180	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540190	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540200	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540210	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540220	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540230	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540240	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540250	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021540260	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540270	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540280	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540290	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540300	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540310	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540320	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021540330	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540340	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540350	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540360	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540370	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540380	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540390	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540400	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540410	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540420	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540430	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540460	Vacant or Other within Sewer Service Area				0	OLYMPIC LN	vac
033021540470	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021540480	Vacant or Other within Sewer Service Area				0	CASCADE CT	vac
033021540490	Vacant or Other within Sewer Service Area				0	CASCADE CT	vac
033021540500	Vacant or Other within Sewer Service Area				0	LILLIAN RIDGE CRT	vac
033021540510	Vacant or Other within Sewer Service Area				0	CASCADE CT	vac
033021540520	Vacant or Other within Sewer Service Area				0	CASCADE CT	vac
033021540530	Vacant or Other within Sewer Service Area				0	CASCADE CT	vac
033021540540	Vacant or Other within Sewer Service Area				0	CASCADE DR	vac
033021550001	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	os
033021550002	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	os
033021550003	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550006	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550007	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550008	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	os
033021550010	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550020	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550030	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550040	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550050	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550060	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550070	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021550080	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550090	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550110	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550120	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550130	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550140	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550150	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550160	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550170	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550180	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	os
033021550190	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	os
033021550200	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550220	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550230	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550240	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550250	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550260	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550270	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033021550280	Vacant or Other within Sewer Service Area				0	BROADMOOR ST	vac
033027210000	Vacant or Other within Sewer Service Area				0	FORREST RD	ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027210125	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027210130	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027210140	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027210150	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027210180	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027230050	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027230130	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027239050	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027240075	Vacant or Other within Sewer Service Area				0	MARINERS VIEW DR	vac
033027240120	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027249030	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027249040	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	util
033027249080	Vacant or Other within Sewer Service Area				0	MARINERS VIEW CT	vac
033027249130	Vacant or Other within Sewer Service Area				0	MARINERS VIEW CT	vac
033027249140	Vacant or Other within Sewer Service Area				0	MARINERS VIEW CT	vac
033027310050	Vacant or Other within Sewer Service Area				0	WHITEFEATHER WAY	vac
033027320000	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027320010	Vacant or Other within Sewer Service Area				0		vac
033027320050	Vacant or Other within Sewer Service Area				0	HWY 101 E	os
033027320075	Vacant or Other within Sewer Service Area				0	KEELER RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027320200	Vacant or Other within Sewer Service Area				0	HWY 101	rd
033027320260	Vacant or Other within Sewer Service Area				0	WHITE FEATHER WAY	rd
033027330320	Vacant or Other within Sewer Service Area				0	WHITEFEATHER WY	rd
033027340000	Vacant or Other within Sewer Service Area				0	HWY 101	vac
033027420080	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027420115	Vacant or Other within Sewer Service Area				0	W SEQUIM BAY RD	vac
033027420205	Vacant or Other within Sewer Service Area				0	W SEQUIM BAY RD	exempt
033027420250	Vacant or Other within Sewer Service Area				0	WHITEFEATHER WY	vac
033027420300	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027420350	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027510284	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027520010	Vacant or Other within Sewer Service Area				0	SEQUIM BAY RD	vac
033027530010	Vacant or Other within Sewer Service Area				0	MARINERS VIEW DR	vac
033027530020	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027530030	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027530040	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033027540950	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027540960	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027540970	Vacant or Other within Sewer Service Area				0	MURRAY CT	vac
033027540980	Vacant or Other within Sewer Service Area				0	MURRAY CT	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027540990	Vacant or Other within Sewer Service Area				0	MURRAY CT	vac
033027541000	Vacant or Other within Sewer Service Area				0	MURRAY CT	vac
033027541010	Vacant or Other within Sewer Service Area				0	MURRAY CT	vac
033027541020	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541030	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541040	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541050	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541060	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541070	Vacant or Other within Sewer Service Area				0	IDA CT	vac
033027541080	Vacant or Other within Sewer Service Area				0	IDA CT	vac
033027541090	Vacant or Other within Sewer Service Area				0	IDA CT	vac
033027541100	Vacant or Other within Sewer Service Area				0	IDA CT	vac
033027541110	Vacant or Other within Sewer Service Area				0	IDA CT	vac
033027541120	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541130	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541140	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541150	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541160	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541170	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541180	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027541190	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541200	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541210	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541230	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541240	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541250	Vacant or Other within Sewer Service Area				0	WATERVIEW DR	vac
033027541260	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541270	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541280	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541290	Vacant or Other within Sewer Service Area				0	RIDGEFIELD RD	vac
033027541300	Vacant or Other within Sewer Service Area				0	RIDGEFIELD RD	vac
033027541310	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541320	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541330	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541340	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541350	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541360	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541380	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027541400	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541410	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027541420	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541430	Vacant or Other within Sewer Service Area				0	FERNBROOKD DR	vac
033027541440	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541450	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541460	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541470	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541480	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541490	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541500	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541510	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541520	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541530	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541540	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541550	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541560	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541570	Vacant or Other within Sewer Service Area				0	FERNBROOK DR	vac
033027541580	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541590	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541600	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541610	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033027541620	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541630	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541640	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541650	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541660	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541670	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541680	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541690	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541700	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541710	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541720	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541730	Vacant or Other within Sewer Service Area				0	RIDGECREST CT	vac
033027541740	Vacant or Other within Sewer Service Area				0	JONES FARM RD	vac
033027541750	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027541760	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027541770	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027541780	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033027541790	Vacant or Other within Sewer Service Area				0	WATER VIEW DR	vac
033027549990	Vacant or Other within Sewer Service Area				0	JONES FARM RD	pub_os
033028110050	Vacant or Other within Sewer Service Area				0	KEELER RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028119000	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028119010	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028119040	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028120010	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028120015	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028120020	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028120025	Vacant or Other within Sewer Service Area				0	BELL BOTTOM RD	vac
033028120040	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028120045	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028120250	Vacant or Other within Sewer Service Area				0	BOGGS PL	vac
033028120300	Vacant or Other within Sewer Service Area				0	WASHINGTON HARBOR LP	vac
033028129020	Vacant or Other within Sewer Service Area				0	SPY GLASS LN	vac
033028129040	Vacant or Other within Sewer Service Area				0	BELL BOTTOM RD	vac
033028130200	Vacant or Other within Sewer Service Area				0	SIMDARS RD	rd
033028140010	Vacant or Other within Sewer Service Area				0	KEELER RD	os
033028140030	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	os
033028140040	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	os
033028140050	Vacant or Other within Sewer Service Area				0	KEELER RD	os
033028140060	Vacant or Other within Sewer Service Area				0	KEELER RD	os
033028210025	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028210035	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033028210200	Vacant or Other within Sewer Service Area				0	HWY 101	ag
033028210350	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
033028220010	Vacant or Other within Sewer Service Area				0	RHODEFER RD	ag
033028220020	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220040	Vacant or Other within Sewer Service Area				0	WASHINGTON ST.	ag
033028220050	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220060	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220070	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220080	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220090	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220100	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220110	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033028220120	Vacant or Other within Sewer Service Area				0	RHODEFER RD	ag
033028338010	Vacant or Other within Sewer Service Area				0		vac
033028338020	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028338040	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028349000	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028410010	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	vac
033028410015	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028410020	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	vac
033028410030	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	vac
033028410040	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410050	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410060	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410070	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410080	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410090	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410100	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028410110	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	exempt
033028420000	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420050	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420100	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420125	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420150	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420200	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420300	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420350	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028420400	Vacant or Other within Sewer Service Area				0	SIMDARS RD	vac
033028430050	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028430150	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac
033028430200	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac
033028430250	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	rd
033028430375	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac
033028449040	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac
033028449050	Vacant or Other within Sewer Service Area				0	CLEARVIEW LN	vac
033028500020	Vacant or Other within Sewer Service Area				0	HIGH MEADOW WAY	vac
033028500030	Vacant or Other within Sewer Service Area				0	HIGH MEADOW WAY	vac
033028500040	Vacant or Other within Sewer Service Area				0	HIGH MEADOW WAY	vac
033028500050	Vacant or Other within Sewer Service Area				0	HIGH MEADOW WAY	vac
033028500060	Vacant or Other within Sewer Service Area				0	HIGH MEADOW WAY	vac
033028500070	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028500080	Vacant or Other within Sewer Service Area				0		vac
033028500090	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac
033028500100	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028500110	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac
033028500120	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac
033028500130	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac
033028500140	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac
033028500150	Vacant or Other within Sewer Service Area				0	HIGH VIEW WAY	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028500160	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028500170	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033028510010	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510020	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510030	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510040	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510050	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510060	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510070	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510080	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510090	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510100	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510110	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510130	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510140	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510150	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510160	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510170	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510180	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510190	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028510210	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510220	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510230	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510240	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510250	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510260	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510270	Vacant or Other within Sewer Service Area				0	EXETER ST	vac
033028510280	Vacant or Other within Sewer Service Area				0	EXETER ST	vac
033028510290	Vacant or Other within Sewer Service Area				0	EXETER ST	vac
033028510300	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510320	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510330	Vacant or Other within Sewer Service Area				0	EXETER ST	vac
033028510340	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510350	Vacant or Other within Sewer Service Area				0	FLYING CLOUD ST	vac
033028510360	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510370	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510380	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510390	Vacant or Other within Sewer Service Area				0	SOLANA PKWY	vac
033028510410	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510420	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028510430	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510440	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510450	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510460	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510480	Vacant or Other within Sewer Service Area				0	TAMERLANE LP	vac
033028510490	Vacant or Other within Sewer Service Area				0		rd
033028510500	Vacant or Other within Sewer Service Area				0		vac
033028510510	Vacant or Other within Sewer Service Area				0		vac
033028510520	Vacant or Other within Sewer Service Area				0		vac
033028510530	Vacant or Other within Sewer Service Area				0		vac
033028520010	Vacant or Other within Sewer Service Area				0	HAWTHORN CT	vac
033028520020	Vacant or Other within Sewer Service Area				0	HAWTHORN CT	vac
033028520070	Vacant or Other within Sewer Service Area				0	HAWTHORN CT	vac
033028520080	Vacant or Other within Sewer Service Area				0	HAWTHORN CT	vac
033028520230	Vacant or Other within Sewer Service Area				0	TANOAK CT	vac
033028520270	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520280	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520290	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520300	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520310	Vacant or Other within Sewer Service Area				0	PEAR CT	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028520320	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520330	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520340	Vacant or Other within Sewer Service Area				0	PEAR CT	vac
033028520350	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520360	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520370	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520380	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520390	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520400	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520410	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520420	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520430	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520440	Vacant or Other within Sewer Service Area				0	BALSAM CT	vac
033028520450	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520460	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520470	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520480	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520490	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520500	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028520510	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028520520	Vacant or Other within Sewer Service Area				0	SNOWBELL CT	vac
033028530001	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	pub_os
033028530002	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530010	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530020	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530030	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530040	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530050	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530060	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530070	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530080	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530090	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530100	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530110	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530120	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530130	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530140	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530150	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530160	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530170	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028530180	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530190	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530200	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530210	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530220	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530230	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530240	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530250	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530260	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530270	Vacant or Other within Sewer Service Area				0	VILLAGE GREEN	vac
033028530280	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530290	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530300	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530310	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530320	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530330	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530340	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530350	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530360	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530370	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028530380	Vacant or Other within Sewer Service Area				0	WATFERFORD CT	vac
033028530390	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530400	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530410	Vacant or Other within Sewer Service Area				0	WATERFORD CT	vac
033028530420	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530430	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530440	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530450	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530460	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530470	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530480	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530490	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530500	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530510	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530520	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530530	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530540	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530550	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530560	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530570	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028530580	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530590	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530600	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530610	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530620	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530630	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530640	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530650	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530660	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530670	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530680	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530690	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530700	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530710	Vacant or Other within Sewer Service Area				0	LOFGRIN RD	vac
033028530730	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530740	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530770	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530820	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530890	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028530900	Vacant or Other within Sewer Service Area				0	KEELER RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028530910	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028530920	Vacant or Other within Sewer Service Area				0	KEELER RD	vac
033028530930	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033028530940	Vacant or Other within Sewer Service Area				0	PINEHURST LP	vac
033029110100	Vacant or Other within Sewer Service Area				0	RHODEFER RD	vac
033029110150	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029110250	Vacant or Other within Sewer Service Area				0	BROWNFIELD RD	vac
033029110300	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029119010	Vacant or Other within Sewer Service Area				0	RHODEFER RD	rd
033029119020	Vacant or Other within Sewer Service Area				0	RHODEFER RD	rd
033029120045	Vacant or Other within Sewer Service Area				0		vac
033029120050	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029120055	Vacant or Other within Sewer Service Area				0	BROWNFIELD RD	vac
033029120500	Vacant or Other within Sewer Service Area				0	HWY 101	rd
033029130030	Vacant or Other within Sewer Service Area				0	HWY 101	util
033029130100	Vacant or Other within Sewer Service Area				0	MILLER RD	sfr
033029139090	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029139130	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029139150	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029139160	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029139170	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029139180	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029139220	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029139230	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029139240	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029139250	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029149020	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029149100	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029149110	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029149120	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029149180	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029149220	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029149260	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029149310	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029149340	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029210050	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029210060	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029210120	Vacant or Other within Sewer Service Area				0	MILLER RD	ag
033029210145	Vacant or Other within Sewer Service Area				0	MILLER RD	ag
033029210150	Vacant or Other within Sewer Service Area				0	MILLER RD	ag

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029220000	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	ag
033029220020	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	ag
033029220050	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033029220080	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029220120	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029240100	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029249050	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029249070	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029249110	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029249120	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029319030	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029319070	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029319080	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029319110	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029319140	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029319150	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029319190	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029319240	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029319260	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029319280	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029319290	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029319300	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029319320	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029320300	Vacant or Other within Sewer Service Area				0	HOLLEMAN WY	vac
033029320500	Vacant or Other within Sewer Service Area				0	HOLLEMAN WY	vac
033029329010	Vacant or Other within Sewer Service Area				0	HOLLEMAN WY	vac
033029329020	Vacant or Other within Sewer Service Area				0	HOLLEMAN WY	vac
033029339015	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	vac
033029339020	Vacant or Other within Sewer Service Area				0	HAPPY VALLEY RD	vac
033029349030	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029349060	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029349070	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029349080	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029349110	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029349120	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029349170	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349200	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349210	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349230	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029349240	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029349290	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349300	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349310	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349350	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029349370	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029349380	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029349400	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029419120	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029419150	Vacant or Other within Sewer Service Area				0	FAWN LN	vac
033029419170	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029419270	Vacant or Other within Sewer Service Area				0	ELK PASS RD	vac
033029419280	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029419320	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029419390	Vacant or Other within Sewer Service Area				0	HAWKS WY	vac
033029419450	Vacant or Other within Sewer Service Area				0	HAWKS WY	vac
033029419470	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029429110	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029429170	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029429180	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029429220	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029429340	Vacant or Other within Sewer Service Area				0	FAWN LN	vac
033029429350	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029429420	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029429430	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033029439080	Vacant or Other within Sewer Service Area				0	QUAILS ROOST RD	vac
033029439120	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439170	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439240	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439270	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439340	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439350	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029439360	Vacant or Other within Sewer Service Area				0	COVEY RUN LN	vac
033029439400	Vacant or Other within Sewer Service Area				0	COVEY RUN LN	vac
033029449010	Vacant or Other within Sewer Service Area				0	COVEY RUN LN	vac
033029449020	Vacant or Other within Sewer Service Area				0	COVEY RUN LN	vac
033029449110	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029449130	Vacant or Other within Sewer Service Area				0	HAWKS WY	vac
033029449140	Vacant or Other within Sewer Service Area				0	HAWKS WY	vac
033029449180	Vacant or Other within Sewer Service Area				0	COVEY RUN LN	vac
033029449220	Vacant or Other within Sewer Service Area				0	STAG LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029449250	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029449330	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029449340	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029449360	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033029449370	Vacant or Other within Sewer Service Area				0	HAWKS WY	vac
033029500005	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	pub_os
033029500345	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033029500410	Vacant or Other within Sewer Service Area				0	EMERALD HIGHLANDS WY	vac
033029500630	Vacant or Other within Sewer Service Area				0	CORAL DR	vac
033029500680	Vacant or Other within Sewer Service Area				0	CORAL DR	vac
033029500730	Vacant or Other within Sewer Service Area				0	CORAL DR	vac
033029500740	Vacant or Other within Sewer Service Area				0	CORAL DR	vac
033029500760	Vacant or Other within Sewer Service Area				0	CORAL DR	vac
033029500880	Vacant or Other within Sewer Service Area				0	JADE CIR	vac
033029500910	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029500950	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029500990	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029501010	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029501170	Vacant or Other within Sewer Service Area				0		vac
033029501180	Vacant or Other within Sewer Service Area				0		vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029501190	Vacant or Other within Sewer Service Area				0	SAPPHIRE PL	vac
033029501230	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029501240	Vacant or Other within Sewer Service Area				0	AMETHYST DR	vac
033029520230	Vacant or Other within Sewer Service Area				0	MILLER RD	pub_os
033029520240	Vacant or Other within Sewer Service Area				0	MILLER RD	pub_os
033029520250	Vacant or Other within Sewer Service Area				0	MILLER RD	pub_os
033029530010	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029530020	Vacant or Other within Sewer Service Area				0	MILLER RD	vac
033029530130	Vacant or Other within Sewer Service Area				0	CRAFTSMAN CT	vac
033029530140	Vacant or Other within Sewer Service Area				0	CRAFTSMAN CT	vac
033029530150	Vacant or Other within Sewer Service Area				0	CRAFTSMAN CT	vac
033029530330	Vacant or Other within Sewer Service Area				0		pub_os
033029530340	Vacant or Other within Sewer Service Area				0		pub_os
033029530350	Vacant or Other within Sewer Service Area				0		pub_os
033029530360	Vacant or Other within Sewer Service Area				0		pub_os
033029540010	Vacant or Other within Sewer Service Area				0	OWLS NEST RD	vac
033029540030	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029540040	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029540050	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033029550005	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033029550010	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550020	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550030	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550040	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550050	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550060	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550070	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550080	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550090	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550100	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550120	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550130	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550140	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550150	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550160	Vacant or Other within Sewer Service Area				0	TALON CT	vac
033029550170	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033029550190	Vacant or Other within Sewer Service Area				0	AMERICAN EAGLE DR	vac
033030120125	Vacant or Other within Sewer Service Area				0	FIFTH AVE	exempt
033030139050	Vacant or Other within Sewer Service Area				0	RESERVOIR RD	vac
033030140020	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030140030	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033030149030	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	ag
033030149040	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	ag
033030149050	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	vac
033030219010	Vacant or Other within Sewer Service Area				0	MCCURDY RD	vac
033030219020	Vacant or Other within Sewer Service Area				0	MCCURDY RD	vac
033030240001	Vacant or Other within Sewer Service Area				0	EUNICE ST	vac
033030249050	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033030310005	Vacant or Other within Sewer Service Area				0	RESERVOIR RD	util
033030310025	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033030310075	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033030310090	Vacant or Other within Sewer Service Area				0		rd
033030310130	Vacant or Other within Sewer Service Area				0	SEVENTH AVE	vac
033030319005	Vacant or Other within Sewer Service Area				0	SEVENTH AVENUE	rd
033030319010	Vacant or Other within Sewer Service Area				0	HAPPY VIEW LN	vac
033030319030	Vacant or Other within Sewer Service Area				0	HAPPY VIEW LN	vac
033030319050	Vacant or Other within Sewer Service Area				0	HAPPY VIEW LN	vac
033030410010	Vacant or Other within Sewer Service Area				0	SEQUIM AVE	rd
033030410054	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033030410120	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030419050	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033030419070	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033030420010	Vacant or Other within Sewer Service Area				0		rd
033030420030	Vacant or Other within Sewer Service Area				0	MISTY MEADOW LN	vac
033030420040	Vacant or Other within Sewer Service Area				0	THIRD AVE	rd
033030420300	Vacant or Other within Sewer Service Area				0	RESERVOIR RD	vac
033030500170	Vacant or Other within Sewer Service Area				0	NORMAN ST	vac
033030519060	Vacant or Other within Sewer Service Area				0	RESERVOIR RD	vac
033030532000	Vacant or Other within Sewer Service Area				0	THIRD AVE	vac
033030540040	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540050	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540080	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540100	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540170	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540180	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540190	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540200	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540210	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540250	Vacant or Other within Sewer Service Area				0	PETAL LN	vac
033030540330	Vacant or Other within Sewer Service Area				0	PETAL LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030550040	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550050	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550060	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550070	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550080	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550090	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550100	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550110	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550120	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550130	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550140	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030550150	Vacant or Other within Sewer Service Area				0	MALIANDRA DR	vac
033030560030	Vacant or Other within Sewer Service Area				0	ASPEN CREEK CT	vac
033030560060	Vacant or Other within Sewer Service Area				0	ASPEN CREEK CT	vac
033030560120	Vacant or Other within Sewer Service Area				0	ASPEN CREEK CT	vac
033030560130	Vacant or Other within Sewer Service Area				0	ASPEN CREEK CT	vac
033030560150	Vacant or Other within Sewer Service Area				0		vac
033030560160	Vacant or Other within Sewer Service Area				0		vac
033030570000	Vacant or Other within Sewer Service Area				0		rd
033030570005	Vacant or Other within Sewer Service Area				0		vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030570010	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570020	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570030	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570040	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570050	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570060	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570070	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570080	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570090	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570100	Vacant or Other within Sewer Service Area				0	BIGLEAF LP	vac
033030570110	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030570120	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030570130	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030570140	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030570170	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030570180	Vacant or Other within Sewer Service Area				0	SYCAMORE ST	vac
033030580010	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580020	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580030	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580060	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030580070	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580090	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580100	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030580120	Vacant or Other within Sewer Service Area				0	RUE LAVANDE	vac
033030590000	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590001	Vacant or Other within Sewer Service Area				0	SILBERHORN RD	vac
033030590002	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590003	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590004	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590005	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590006	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590007	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590008	Vacant or Other within Sewer Service Area				0	COMFORT WAY	vac
033030590010	Vacant or Other within Sewer Service Area				0	COMFORT	vac
033030590020	Vacant or Other within Sewer Service Area				0	COMFORT	vac
033030590030	Vacant or Other within Sewer Service Area				0	JARA	vac
033030590040	Vacant or Other within Sewer Service Area				0	JARA	vac
033030590050	Vacant or Other within Sewer Service Area				0	JARA	vac
033030590060	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590070	Vacant or Other within Sewer Service Area				0	JARA WAY	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030590080	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590090	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590100	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590110	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590120	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590130	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590140	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590160	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590170	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590180	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590190	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590210	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590220	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WY	vac
033030590290	Vacant or Other within Sewer Service Area				0	ROLLING HILLS WAY	vac
033030590300	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590310	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590320	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590330	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590340	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033030590350	Vacant or Other within Sewer Service Area				0	JARA WAY	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030590360	Vacant or Other within Sewer Service Area				0	JARA WAY	vac
033032110020	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032110030	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032119010	Vacant or Other within Sewer Service Area				0	OVERLOOK TRL	vac
033032119030	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032119060	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032119090	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032129010	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032129070	Vacant or Other within Sewer Service Area				0	STAMPEDE DR	vac
033032129100	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032129120	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032130070	Vacant or Other within Sewer Service Area				0	HILLSIDE DR	vac
033032130100	Vacant or Other within Sewer Service Area				0	CARRIAGE DR	vac
033032140190	Vacant or Other within Sewer Service Area				0	QUARTER HORSE LN	vac
033032149020	Vacant or Other within Sewer Service Area				0	OVERLOOK TRL	vac
033032149040	Vacant or Other within Sewer Service Area				0	STAMPEDE DR	vac
033032149060	Vacant or Other within Sewer Service Area				0	QUARTER HORSE LN	vac
033032149080	Vacant or Other within Sewer Service Area				0	QUARTER HORSE LN	vac
033032200300	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	util
033032219030	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032219040	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219050	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219060	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219110	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219130	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033032219170	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219180	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032219190	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033032219200	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033032219210	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033032219220	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033032219240	Vacant or Other within Sewer Service Area				0	RAVENS RIDGE RD	vac
033032249080	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249120	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249130	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249140	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249190	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249270	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033032249300	Vacant or Other within Sewer Service Area				0	FOX HOLLOW RD	vac
033032249320	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033032249360	Vacant or Other within Sewer Service Area				0	DOE RUN RD	vac
033033229030	Vacant or Other within Sewer Service Area				0	OVERLOOK TRL	vac
033033229040	Vacant or Other within Sewer Service Area				0	OVERLOOK TRAIL	vac
033034210015	Vacant or Other within Sewer Service Area				0	HWY 101	vac
043024110090	Vacant or Other within Sewer Service Area				0		vac
043024140000	Vacant or Other within Sewer Service Area				0	HONEYCOMB CIR	vac
043024310030	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024310060	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024310070	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024310075	Vacant or Other within Sewer Service Area				0	GRANT RD	vac
043024310115	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024317020	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024317030	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024319010	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024319020	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024340125	Vacant or Other within Sewer Service Area				0	GRANT RD	rd
043024340150	Vacant or Other within Sewer Service Area				0	GRANT RD	vac
043024347040	Vacant or Other within Sewer Service Area				0	GRANT RD	vac
043024349000	Vacant or Other within Sewer Service Area				0	GRANT RD	rd
043024349010	Vacant or Other within Sewer Service Area				0	GRANT RD	rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024349040	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024349120	Vacant or Other within Sewer Service Area				0	GRANT RD	rd
043024349185	Vacant or Other within Sewer Service Area				0	NARROW WAY	vac
043024410115	Vacant or Other within Sewer Service Area				0		rd
043024410150	Vacant or Other within Sewer Service Area				0		rd
043024417010	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024417020	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024417030	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024417040	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024417050	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024419020	Vacant or Other within Sewer Service Area				0	BRACKETT RD	vac
043024419030	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024420050	Vacant or Other within Sewer Service Area				0		rd
043024420100	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024427020	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024427050	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024427070	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024427080	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024427090	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac
043024429040	Vacant or Other within Sewer Service Area				0	WASHINGTON ST	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024429050	Vacant or Other within Sewer Service Area				0	PRIEST RD	vac
043024430075	Vacant or Other within Sewer Service Area				0	RIVER RD	rd
043024430130	Vacant or Other within Sewer Service Area				0	MARLO DR	rd
043024430175	Vacant or Other within Sewer Service Area				0		rd
043024430200	Vacant or Other within Sewer Service Area				0	MARLO DR	vac
043024439010	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439020	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439030	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439050	Vacant or Other within Sewer Service Area				0	RIVER RD	rd
043024439130	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439160	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439170	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439180	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439190	Vacant or Other within Sewer Service Area				0	RIVER RD	vac
043024439260	Vacant or Other within Sewer Service Area				0	Marlo Lp	vac
043024439270	Vacant or Other within Sewer Service Area				0	Marlo Lp	vac
043024439280	Vacant or Other within Sewer Service Area				0	Marlo Lp	vac
043024439290	Vacant or Other within Sewer Service Area				0	Marlo Lp	vac
043024439300	Vacant or Other within Sewer Service Area				0	MARLO LP	vac
043024439310	Vacant or Other within Sewer Service Area				0	MARLO LP	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024439320	Vacant or Other within Sewer Service Area				0	MARLO LP	vac
043024439330	Vacant or Other within Sewer Service Area				0	MARLO LP	vac
043024440015	Vacant or Other within Sewer Service Area				0	S NINTH AVE	vac
043024440055	Vacant or Other within Sewer Service Area				0	S NINTH AVE	vac
043024440120	Vacant or Other within Sewer Service Area				0	NINTH AVE	os
043024440130	Vacant or Other within Sewer Service Area				0	NINTH AVE	os
043024520020	Vacant or Other within Sewer Service Area				0	NINTH AVE	vac
043024520060	Vacant or Other within Sewer Service Area				0	HONEYCOMB CIR	vac
043024520070	Vacant or Other within Sewer Service Area				0	HONEYCOMB CIR	vac
043024520100	Vacant or Other within Sewer Service Area				0	HONEYCOMB CIR	vac
043024520120	Vacant or Other within Sewer Service Area				0	HONEYCOMB CIR	vac
043024570007	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	rd
043024570020	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570080	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570140	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570160	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570180	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570190	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570200	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570260	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024570270	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570290	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570350	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570360	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570380	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570390	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570400	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024570430	Vacant or Other within Sewer Service Area				0	COBBLESTONE LN	vac
043024580040	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580060	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580070	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580080	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580090	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580100	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580110	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580120	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580130	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580140	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580200	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580210	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024580230	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580240	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580250	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580260	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580270	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580280	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580290	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580310	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580340	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580350	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580360	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580370	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024580380	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024581630	Vacant or Other within Sewer Service Area				0		vac
043024581640	Vacant or Other within Sewer Service Area				0		vac
043024581650	Vacant or Other within Sewer Service Area				0		vac
043024581660	Vacant or Other within Sewer Service Area				0		vac
043024581670	Vacant or Other within Sewer Service Area				0		vac
043024581680	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac
043024581690	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024581700	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac
043024581710	Vacant or Other within Sewer Service Area				0		vac
043024581720	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac
043024581730	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac
043024581940	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024581950	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024581960	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024581970	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024581980	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024581990	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024582020	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	rd
043024582030	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	vac
043024582040	Vacant or Other within Sewer Service Area				0	SNAPDRAGON LN	vac
043024582050	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	vac
043024582060	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	vac
043024582070	Vacant or Other within Sewer Service Area				0	GOLDENROD LN	vac
043024582080	Vacant or Other within Sewer Service Area				0	LOBELIA DR	vac
043024582090	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	vac
043024582100	Vacant or Other within Sewer Service Area				0	LARKSPUR LP	vac
043024582110	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	pub_os

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
043024582120	Vacant or Other within Sewer Service Area				0	JENNIES BLVD	pub_os
043024582130	Vacant or Other within Sewer Service Area				0	LOBELIA DR	util
043024582140	Vacant or Other within Sewer Service Area				0		vac
043024582150	Vacant or Other within Sewer Service Area				0		vac
043025410070	Vacant or Other within Sewer Service Area				0	FALCON RD	ag
043025410080	Vacant or Other within Sewer Service Area				0	FALCON RD	ag
043025430200	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025430250	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025430300	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025440000	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025440050	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025440100	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
043025440150	Vacant or Other within Sewer Service Area				0	RIVER RD	ag
053030560160	Vacant or Other within Sewer Service Area				0		
033018road14	Vacant or Other within Sewer Service Area				0		rd
033018road32	Vacant or Other within Sewer Service Area				0		rd
033018road39	Vacant or Other within Sewer Service Area				0		rd
033018road46	Vacant or Other within Sewer Service Area				0		rd
033018road53	Vacant or Other within Sewer Service Area				0		rd
033018road57	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033018road67	Vacant or Other within Sewer Service Area				0		rd
033018road76	Vacant or Other within Sewer Service Area				0		rd
033018road77	Vacant or Other within Sewer Service Area				0		rd
033018road85	Vacant or Other within Sewer Service Area				0		rd
033019city01	Vacant or Other within Sewer Service Area				0		vac
033019road02	Vacant or Other within Sewer Service Area				0		rd
033019road07	Vacant or Other within Sewer Service Area				0		rd
033019road09	Vacant or Other within Sewer Service Area				0		rd
033019road10	Vacant or Other within Sewer Service Area				0		rd
033019road12	Vacant or Other within Sewer Service Area				0		rd
033019road13	Vacant or Other within Sewer Service Area				0		rd
033019road19	Vacant or Other within Sewer Service Area				0		rd
033019road20	Vacant or Other within Sewer Service Area				0		rd
033019road21	Vacant or Other within Sewer Service Area				0		rd
033019road28	Vacant or Other within Sewer Service Area				0		rd
033019road31	Vacant or Other within Sewer Service Area				0		rd
033019road32	Vacant or Other within Sewer Service Area				0		rd
033019road38	Vacant or Other within Sewer Service Area				0		rd
033019road40	Vacant or Other within Sewer Service Area				0		rd
033019road41	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033019road42	Vacant or Other within Sewer Service Area				0		rd
033019road43	Vacant or Other within Sewer Service Area				0		rd
033019road47	Vacant or Other within Sewer Service Area				0		rd
033019road51	Vacant or Other within Sewer Service Area				0		rd
033019road56	Vacant or Other within Sewer Service Area				0		rd
033019road63	Vacant or Other within Sewer Service Area				0		rd
033019road69	Vacant or Other within Sewer Service Area				0		rd
033019road74	Vacant or Other within Sewer Service Area				0		rd
033019road82	Vacant or Other within Sewer Service Area				0		rd
033019road86	Vacant or Other within Sewer Service Area				0		rd
033019road87	Vacant or Other within Sewer Service Area				0		rd
033019road90	Vacant or Other within Sewer Service Area				0		rd
033019road95	Vacant or Other within Sewer Service Area				0		rd
033020city01	Vacant or Other within Sewer Service Area				0		rd
033020city02	Vacant or Other within Sewer Service Area				0		rd
033020road04	Vacant or Other within Sewer Service Area				0		rd
033020road05	Vacant or Other within Sewer Service Area				0		rd
033020road16	Vacant or Other within Sewer Service Area				0		rd
033020road25	Vacant or Other within Sewer Service Area				0		rd
033020road33	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033020road44	Vacant or Other within Sewer Service Area				0		rd
033020road48	Vacant or Other within Sewer Service Area				0		rd
033020road50	Vacant or Other within Sewer Service Area				0		rd
033020road64	Vacant or Other within Sewer Service Area				0		rd
033020road74	Vacant or Other within Sewer Service Area				0		rd
033020road75	Vacant or Other within Sewer Service Area				0		rd
033020road77	Vacant or Other within Sewer Service Area				0		rd
033020road79	Vacant or Other within Sewer Service Area				0		rd
033020road88	Vacant or Other within Sewer Service Area				0		rd
033020road89	Vacant or Other within Sewer Service Area				0		rd
033020road90	Vacant or Other within Sewer Service Area				0		rd
033020road91	Vacant or Other within Sewer Service Area				0		rd
033021road15	Vacant or Other within Sewer Service Area				0		rd
033021road24	Vacant or Other within Sewer Service Area				0		rd
033021road32	Vacant or Other within Sewer Service Area				0		rd
033021road58	Vacant or Other within Sewer Service Area				0		rd
033021road64	Vacant or Other within Sewer Service Area				0		rd
033021road71	Vacant or Other within Sewer Service Area				0		rd
033021road75	Vacant or Other within Sewer Service Area				0		rd
033021road80	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033021road86	Vacant or Other within Sewer Service Area				0		rd
033027hold12	Vacant or Other within Sewer Service Area				0		
033027road00	Vacant or Other within Sewer Service Area				0		rd
033027road09	Vacant or Other within Sewer Service Area				0		rd
033027road12	Vacant or Other within Sewer Service Area				0		rd
033027road36	Vacant or Other within Sewer Service Area				0		rd
033027road38	Vacant or Other within Sewer Service Area				0		rd
033027road47	Vacant or Other within Sewer Service Area				0		rd
033027road48	Vacant or Other within Sewer Service Area				0		rd
033027road54	Vacant or Other within Sewer Service Area				0		rd
033027road60	Vacant or Other within Sewer Service Area				0		rd
033027road68	Vacant or Other within Sewer Service Area				0		rd
033027road89	Vacant or Other within Sewer Service Area				0		rd
033028road01	Vacant or Other within Sewer Service Area				0		rd
033028road09	Vacant or Other within Sewer Service Area				0		rd
033028road12	Vacant or Other within Sewer Service Area				0		rd
033028road30	Vacant or Other within Sewer Service Area				0		rd
033028road33	Vacant or Other within Sewer Service Area				0		rd
033028road35	Vacant or Other within Sewer Service Area				0		rd
033028road36	Vacant or Other within Sewer Service Area				0		rd

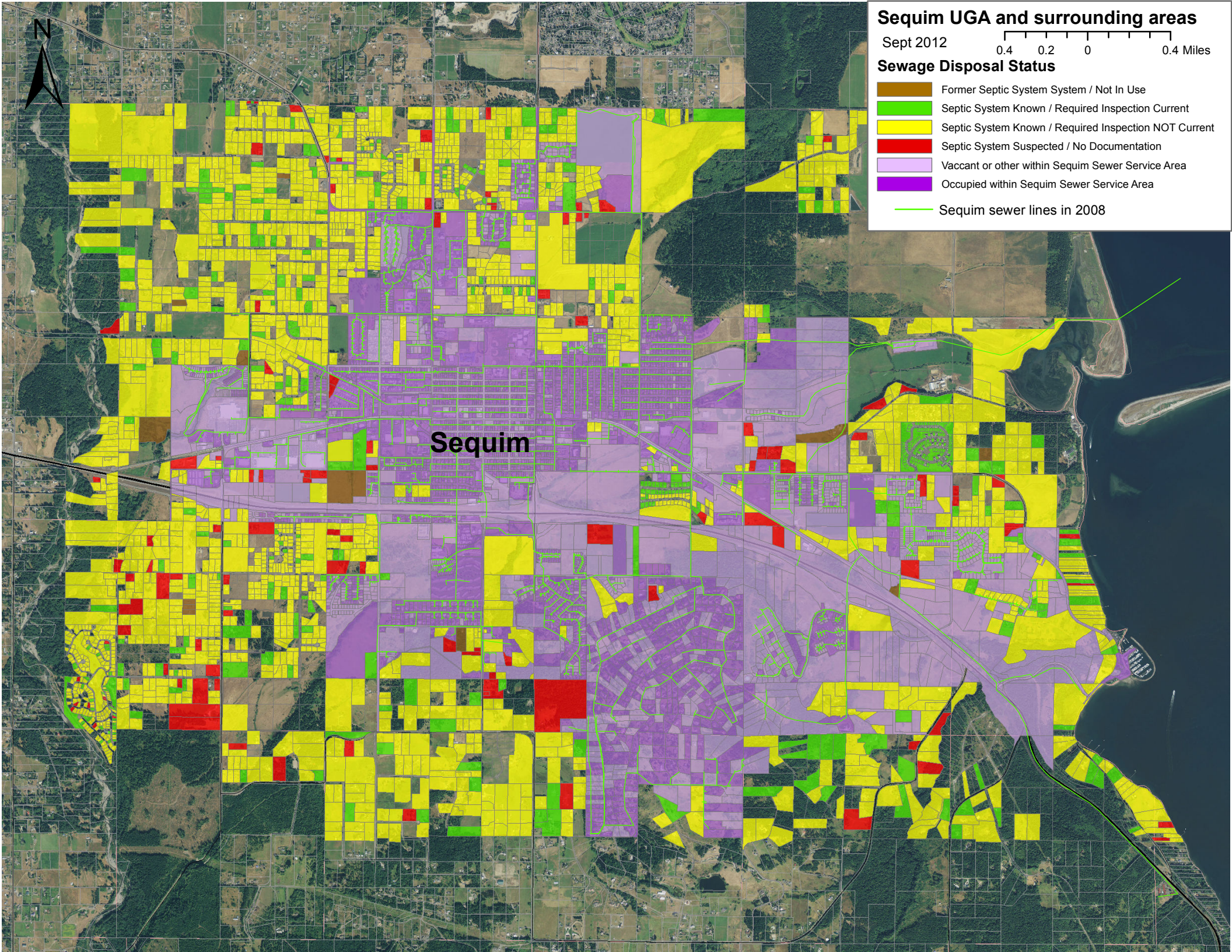
* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033028road39	Vacant or Other within Sewer Service Area				0		rd
033028road40	Vacant or Other within Sewer Service Area				0		rd
033028road42	Vacant or Other within Sewer Service Area				0		rd
033028road56	Vacant or Other within Sewer Service Area				0		rd
033028road70	Vacant or Other within Sewer Service Area				0		rd
033028road93	Vacant or Other within Sewer Service Area				0		rd
033029cnty01	Vacant or Other within Sewer Service Area				0		pub_os
033029road28	Vacant or Other within Sewer Service Area				0		rd
033029road29	Vacant or Other within Sewer Service Area				0		rd
033029road38	Vacant or Other within Sewer Service Area				0		rd
033029road68	Vacant or Other within Sewer Service Area				0		rd
033029road86	Vacant or Other within Sewer Service Area				0		rd
033029road90	Vacant or Other within Sewer Service Area				0		rd
033030road00	Vacant or Other within Sewer Service Area				0		rd
033030road01	Vacant or Other within Sewer Service Area				0		rd
033030road03	Vacant or Other within Sewer Service Area				0		rd
033030road04	Vacant or Other within Sewer Service Area				0		rd
033030road22	Vacant or Other within Sewer Service Area				0		rd
033030road27	Vacant or Other within Sewer Service Area				0		rd
033030road48	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.

PARCEL_NUM	Sewage Disposal Status	Septic System ID	Septic Permit No.	Septic System Type	Year Septic Installed	SITUS_RD	Development Category
033030road62	Vacant or Other within Sewer Service Area				0		rd
033030road66	Vacant or Other within Sewer Service Area				0		rd
033030road79	Vacant or Other within Sewer Service Area				0		rd
033030road84	Vacant or Other within Sewer Service Area				0		rd
033030road88	Vacant or Other within Sewer Service Area				0		rd
033030road89	Vacant or Other within Sewer Service Area				0		rd
043024road12	Vacant or Other within Sewer Service Area				0		rd
043024road25	Vacant or Other within Sewer Service Area				0		rd
043024road37	Vacant or Other within Sewer Service Area				0		rd
043024road84	Vacant or Other within Sewer Service Area				0		rd
043024road85	Vacant or Other within Sewer Service Area				0		rd

* Data courtesy of Clallam County records.


N
Sequim UGA and surrounding areas
Sept 2012
0.4 0.2 0 0.4 Miles
Sewage Disposal Status
Former Septic System System / Not In Use
Septic System Known / Required Inspection Current
Septic System Known / Required Inspection NOT Current
Septic System Suspected / No Documentation
Vaccant or other within Sequim Sewer Service Area
Occupied within Sequim Sewer Service Area
Sequim sewer lines in 2008
Sequim

APPENDIX C

NPDES PERMIT

DEPARTMENT OF ECOLOGY
State of Washington

Issuance Date: May 9, 2005
Effective Date: June 1, 2005
Expiration Date: May 31, 2010
Modification Date: May 1, 2009

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WASTE DISCHARGE AND RECLAIMED WATER PERMIT No. WA0022349

State of Washington
DEPARTMENT OF ECOLOGY
Olympia, Washington 98504-7600

In compliance with the provisions of
The State of Washington Reclaimed Water Act, Chapter 90.46 Revised Code of Washington
and the
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.

State of Washington
DEPARTMENT OF HEALTH
In compliance with the provisions of
Chapter 90.46 and 43.70 Revised Code of Washington
authorizes

City of Sequim

152 West Cedar Street

Sequim, Washington 98382-3317

Plant Location: 247 Schmuck Road Sequim, Washington	Receiving Water: Outfall 001: Strait of Juan de Fuca Outfall 002: Bell Creek	
Water Body I.D. No.: 1224026474620	Discharge Location: Outfall: 001	002
Plant Type: Class A Water Reclamation	Latitude: 48° 5' 29" N Longitude: 123° 2' 11" W	48° 4' 49" N 123° 5' 3" W

to discharge in accordance with the special and general conditions that follow.

Garin Schrieve, P.E.
Southwest Region Supervisor
Water Quality Program
Washington State Department of Ecology

TABLE OF CONTENTS

SUMMARY OF PERMIT REPORT SUBMITTALS 5

SPECIAL CONDITIONS

S1. DISCHARGE LIMITATIONS 7
- A. Effluent Limitations
- B. Mixing Zone Descriptions

S2. MONITORING REQUIREMENTS 9
- A. Monitoring Schedule
- B. Sampling and Analytical Procedures
- C. Flow Measurement
- D. Instrumentation Calibration
- E. Laboratory Accreditation

S3. Reporting and recordkeeping requirements 11
- A. Reporting
- B. Records Retention
- C. Recording of Results
- D. Additional Monitoring by the Permittee
- E. Noncompliance Notification
- F. Reporting - Shellfish Protection

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. Waste load 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
- F. Monitoring Requirements
- G. Reporting of Monitoring Results

S7. RESIDUAL SOLIDS 21

S8. ACUTE TOXICITY 21
A. Testing Requirements
B. Sampling and Reporting Requirements

S9. CHRONIC TOXICITY 22
A. Testing Requirements
B. Sampling and Reporting Requirements

S10. OUTFALL EVALUATION 24

RECLAIMED WATER CONDITIONS

R1. RECLAIMED WATER DISTRIBUTION AND USE 24
A. Authorized Uses and Locations
B. Water Reuse Plan
C. Reclaimed Water Operational Records
D. Bypass Prohibited
E. Reliability
F. Use Area Responsibilities
G. Service and Use Area Agreement
H. Reclaimed Water Ordinance
I. Irrigation Use

R2. OPERATION AND MAINTENANCE 28
A. Reclaimed Water System Maintenance
B. Operation and Maintenance Manual

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS 30
G2. RIGHT OF INSPECTION AND ENTRY 30
G3. PERMIT ACTIONS 31
G4. REPORTING PLANNED CHANGES 32
G5. PLAN REVIEW REQUIRED 32
G6. COMPLIANCE WITH OTHER LAWS AND STATUTES 33
G7. DUTY TO REAPPLY 33
G8. TRANSFER OF THIS PERMIT 33
G9. REDUCED PRODUCTION FOR COMPLIANCE 33
G10. REMOVED SUBSTANCES 34
G11. DUTY TO PROVIDE INFORMATION 34
G12. OTHER REQUIREMENTS OF 40 CFR 34
G13. ADDITIONAL MONITORING 34
G14. PAYMENT OF FEES 34
G15. PENALTIES FOR VIOLATING PERMIT CONDITIONS 34
G16. UPSET 34
G17. PROPERTY RIGHTS 35
G18. DUTY TO COMPLY 35
G19. TOXIC POLLUTANTS 35
G20. PENALTIES FOR TAMPERING 35
G21. REPORTING ANTICIPATED NON-COMPLIANCE 35

G22. REPORTING OTHER INFORMATION 36
G23. REPORTING REQUIREMENTS APPLICABLE TO EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS 36
G24. COMPLIANCE SCHEDULES 36

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	August 15, 2005
S3.E	Noncompliance Notification	As necessary	
S3.F	Shellfish Protection	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, 2005
S4.F.	Waste load Assessment	Annually	June 30, 2005
S5.G.	Operations and Maintenance Manual Update	As necessary	
S6.D.	Submittal of List of Industrial Users	Annually	June 30, 2005
S6.F.	Pretreatment Monitoring	Annually	December 31, 2005
S8.A.	Acute Toxicity Effluent Testing	2/permit cycle	Once in the Summer & Once in the Winter Following Submission of the Notice of Completion of Construction
S9.A.	Chronic Toxicity Effluent Testing	2/permit cycle	Once in the Summer & Once in the Winter Following Submission of the Notice of Completion of Construction
S10.	Outfall Evaluation	Once/permit cycle	Prior to Submission of the Renewal Application
R1.B.	Water Reuse Plan	Update as needed	
R1.C.	Monthly Summary of Operating Records	Monthly with DMR	August 15, 2005
R1.C.	Cross Connection Control Report	Annually	
R1.G.	Service and Use Area Agreement	As needed	
G1.	Notice of Change in Authorization	As necessary	
G4.	Permit Application for Substantive Changes to the Discharge	As necessary	

Modification Date: May 1, 2009

Permit Section	Submittal	Frequency	First Submittal Date
G5.	Engineering Report for Construction or Modification Activities	As necessary	
G7.	Application for Permit Renewal	1/permit cycle	December 1, 2009
G21	Reporting Anticipated Non-compliance	As necessary	
G22	Other Information	As necessary	

Submittals shall be sent to the following addresses:

1. Department of Ecology, Water Quality Program, Municipal Permit Coordinator, Southwest Regional Office, P.O. Box 47775, Olympia, Washington 98504-7775
2. Department of Health, Water Reclamation and reuse Program, Division of Drinking Water, 1500 West 4th Avenue, Spokane, Washington 99204

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.

The production and use of reclaimed water shall be in compliance with all specific conditions and requirements of the Washington State Water Reclamation and Reuse Standards, 1997, and is subject to the requirements listed below:

Beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge Class A reclaimed water to Outfalls 001 and 002, and to distribute Class A reclaimed water to public and private entities for commercial and industrial uses and/or to apply reclaimed water to land for irrigation at agronomic rates. The discharge, distribution and use of reclaimed water is subject to the following treatment and water quality limitations:

RECLAIMED WATER LIMITATIONS		
Parameter	**Average Monthly[a]**	**Average Weekly[a]**
Biochemical Oxygen Demand[b] (5 day)	30 mg/L, 200 lbs/day 85% Removal	45 mg/L, 300 lbs/day
Total Suspended Solids[b]	30 mg/L, 200 lbs/day 85% Removal	45 mg/L, 300 lbs/day
Parameter	**Average Monthly[a]**	**Sample Maximum[c]**
Turbidity	2 NTU	5 NTU
Parameter	**7 Day Median[d]**	**Sample Maximum[c]**
Total Coliform Bacteria	2.2 MPN/100 mL	23 MPN/100 mL
Parameter	**Average Monthly[a]**	**Daily Maximum[e]**
Ammonia (as N)	3.3 mg/L	5.7 mg/L
Total Nitrogen (as N)	10 mg/L	
pH[f]	Daily minimum is equal to or greater than 6 and the daily maximum is less than or equal to 9.	
Dissolved Oxygen	Shall be measurably present in secondary effluent at all times	
Total Flow[g]	0.80 MGD	
[a] The average monthly and weekly effluent limitations are based on the arithmetic mean of the samples taken.		

RECLAIMED WATER LIMITATIONS
[b] The average monthly effluent concentration for BOD_5 and Total Suspended Solids shall not exceed 30 mg/L or 15 percent of the respective monthly average influent concentrations, whichever is more stringent.
[c] The sample maximum is defined as the value not to be exceeded by any single sample.
[d] The median number of total coliform organisms in the reclaimed water after disinfection does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last seven days for which analyses have been completed.
[e] The daily maximum discharge 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.
[f] Indicates the range of permitted values. When pH is continuously monitored, excursions between 5.0 and 6.0, or 9.0 and 10.0 shall not be considered violations provided no single excursion exceeds 60 minutes in length and total excursions do not exceed 7 hours and 30 minutes per month. Any excursions below 5.0 and above 10.0 are violations. The instantaneous maximum and minimum pH shall be reported monthly.
[g] The flow to Outfall 001, the marine outfall, is required to be reduced as more uses of the reclaimed water come on line. Ultimately only occasional maintenance discharges, to maintain the function of the marine outfall, will be allowed.

In the event of an upset condition, defined as those situations when flow exceeds twice the plant's maximum daily hydraulic capacity within a 48-hour period, or when Class A water cannot be achieved due to acts of nature such as earthquakes, lightning, or other such unforeseeable catastrophes (1997 Settlement Agreement), the City is authorized to discharge at Outfall 001 only, subject to the following limitations:

UPSET CONDITION LIMITATIONS		
Parameter	**Average Monthly[a]**	**Average Weekly[a]**
Biochemical Oxygen Demand (5 day)	30 mg/L, 200 lbs/day 85% Removal	45 mg/L, 300 lbs/day
Total Suspended Solids	30 mg/L, 200 lbs/day 85% Removal	45 mg/L, 300 lbs/day
Flow	0.80 MGD	
Fecal Coliform Bacteria	200/100 mL	400/100 mL
pH	Daily minimum is equal to or greater than 6 and the daily maximum is less than or equal to 9.	
[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. Fecal coliform must be tested for during periods of upset.		

B. Mixing Zone Descriptions

The maximum boundaries of the mixing zones for Outfall 001 are defined as follows:

1. The chronic mixing zone extends 260 feet from the outermost discharge ports at both ends of the diffuser section and from the centerline of the diffuser section.

2. The acute mixing zone extends 26 feet from the last discharge port at both ends of the diffuser section and from the centerline of the diffuser section.

The maximum boundaries of the mixing zones for Outfall 002 are defined as follows:

1. The chronic mixing zone extends until complete mix, 147 feet downstream from the outfall.

2. There is no acute mixing zone for the side bank outfall.

S2. MONITORING REQUIREMENTS

A. Monitoring Schedule

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
Wastewater Influent	Flow	MGD	Influent	Daily	Continuous recording
Wastewater Influent	BOD_5	mg/L lbs/day	Influent	2/week	24-hr composite
Wastewater Influent	TSS	mg/L lbs/day	Influent	2/week	24-hr composite
Wastewater Influent	pH	Standard Units	Influent	Daily	Grab
Reclaimed Water	Total Flow	MGD	Product Water	Daily	Continuous recording
Reclaimed Water	Flow to Outfall 001	MGD	Discharge to Outfall 001	Daily	Continuous recording
Reclaimed Water	BOD_5	mg/L lbs/day	Product Water	2/week	24-hr composite
Reclaimed Water	TSS	mg/L lbs/day	Product Water	Daily	24-hr composite
Reclaimed Water	Total Coliform	No. of org. per 100 mL	Product Water	Daily	Grab
Reclaimed	Turbidity	NTU	Product Water	Every 4 hours	Continuous

Category	Parameter	Units	Sample Point	Minimum Sampling Frequency	Sample Type
Water					recording
Reclaimed Water	Dissolved Oxygen	mg/L	Product Water	Daily	Grab
Reclaimed Water	pH	Standard Units	Product Water	Daily	Grab
Reclaimed Water	Temperature	Celsius	Product Water	Weekly	Grab
Reclaimed Water	Ammonia as N	mg/L	Product Water	2/month	24-hr composite
Reclaimed Water	Total Nitrogen as N	mg/L	Product Water	Monthly	24-hr composite
Reclaimed Water	TKN	mg/L	Product Water	Monthly	24-hr composite
Reclaimed Water	Total Phosphorous	mg/L	Product Water	Monthly	24-hr composite
Reclaimed Water	Ortho-phosphate	mg/L	Product Water	Monthly	24-hr composite

* 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 four times a day when continuous monitoring is not possible.

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 or to the latest revision of *Standard Methods for the Examination of Water and Wastewater* (APHA), unless otherwise specified in this permit or approved in writing by the Department of Ecology (Department).

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. Instrumentation Calibration

Monitoring 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 the manufacturer's recommendations. Calibration records shall be maintained for at least three years.

The Permittee shall also verify the accuracy of on-line turbidimeters at a minimum frequency of at least once every two weeks.

E. Laboratory Accreditation

All monitoring data required by the Department shall be prepared by a laboratory registered or accredited under the provisions of, *Accreditation of Environmental Laboratories*, Chapter 173-50 Washington Administrative Code (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. The Department exempts crops, soils, and hazardous waste data from this requirement pending accreditation of laboratories for analysis of these media.

S3. REPORTING AND RECORDKEEPING REQUIREMENTS

The Permittee shall monitor and report in accordance with the following conditions. The falsification of information submitted to the Department shall constitute a violation of the terms and conditions of this permit.

A. Reporting

The first monitoring period begins on the effective date of the permit. Monitoring results shall be submitted monthly. Monitoring data obtained during each monitoring period shall be summarized, reported, and submitted on a Discharge Monitoring Report (DMR) form provided, or otherwise approved, by the Department. DMR forms shall be received by the Department no later than the 15th day of the month following the completed monitoring period, unless otherwise specified in this permit. Priority pollutant analysis data shall be submitted no later than 45 days following the monitoring period. Unless otherwise specified, all toxicity test data shall be submitted within 60 days after the sample date. The report(s) shall be sent to the Department of Ecology, Southwest Regional Office, P.O. Box 47775, Olympia, Washington 98504-7775 and to the Department of Health, Water Reclamation and Reuse Program, Division of Drinking Water, 1500 West 4th Avenue, Spokane, Washington 99204.

All laboratory reports providing data for organic and metal parameters shall 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.

Discharge Monitoring Report forms must be submitted monthly whether or not the facility was discharging. If there was no discharge during a given monitoring period, submit the form as required with the words "no discharge" entered in place of the monitoring results.

B. Records Retention

The Permittee shall retain records of all monitoring information for a minimum of three (3) years. Such information shall 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. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the Department.

C. Recording of Results

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place, method, and time of sampling or measurement; (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; and (6) the results of all analyses.

D. Additional Monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by this permit using test procedures specified by Condition S2 of this permit, then the results of such monitoring shall be included in the calculation and reporting of the data submitted in the Permittee's DMR.

E. Noncompliance Notification

In the event the Permittee is unable to comply with any of the terms and conditions of this permit due to any cause, the Permittee shall:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance, correct the problem and, if applicable, repeat sampling and analysis of any noncompliance immediately and submit the results to the Department within 30 days after becoming aware of the violation.

2. Immediately notify the Department of the failure to comply.

3. Submit a detailed written report to the Department within 30 days (five days for upsets and bypasses), unless requested earlier by the Department. The report shall contain a description of the noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

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. Reporting - Shellfish Protection

Unauthorized discharges such as collection system overflows, plant bypasses, or failure of the disinfection system, shall be reported immediately to the Department of Ecology, the Department of Health, Shellfish Program, and the Clallam County Environmental Health Division. The Department of Ecology's Southwest Regional Office 24-hour number is (360) 407-6300, the Department of Health's Shellfish 24-hour number is (360) 236-3330, and the Clallam County Environmental Health Division number is (360) 417-2258.

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:	0.80 MGD
BOD_5 loading for maximum month:	1725 lbs/day
TSS loading for maximum month:	1450 lbs/day

B. Plans for Maintaining Adequate Capacity

The Permittee shall submit to the Department 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. when 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 the Department prior to any construction. 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 the Department 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 POTWs 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 shall be submitted by **June 30, 2005**, and annually thereafter.

F. Waste load Assessment

The Permittee shall conduct an annual assessment of their flow and waste load and submit a report to the Department by **June 30, 2005**, 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 the Department 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 III 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 II plant shall be in charge during all regularly scheduled shifts.

B. O & M Program

The Permittee shall institute an adequate operation and maintenance program for their 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 the Department, 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 their 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 I (EPA 430-99-74-001) 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

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 the Department 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 the Department prior to the bypass. The Permittee shall submit prior notice, if possible at least ten 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 judgement 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. The Department is properly notified of the bypass as required in Condition S3E of this permit.

3. Bypass which is anticipated and has the potential to result in noncompliance of this permit.

The Permittee shall notify the Department 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-110, 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.

The Department 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, the Department 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 the Department 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. Substantial changes or updates to the O&M Manual shall be submitted to the Department for review and approval whenever they are incorporated into the manual.

S6. PRETREATMENT

A. General Requirements

The Permittee shall work with the Department 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 the Department 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 the Department and obtain a state waste discharge permit. A copy of this notification letter shall also be sent to the Department 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 the Department 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 the Department a list summarizing all existing and proposed SIUs and PSIUs. This list must be received by the Department by **June 30th** of each year of the permit.

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 40ºC (104ºF) unless the Department, 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 the Department 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 the Department if any industrial user violates the prohibitions listed in this section.

F. Monitoring Requirements

The Permittee shall monitor its effluent for the priority pollutants identified in Tables II and III of Appendix D of 40 CFR Part 122 as amended, and any other pollutants expected from nondomestic sources using U.S. EPA-approved procedures for collection, preservation, storage, and analysis. Effluent samples shall be tested for the priority pollutant metals (Table III, 40 CFR 122, Appendix D) on a quarterly basis throughout the term of this permit. Effluent samples shall be tested for the organic priority pollutants (Table II, 40 CFR 122, Appendix D) on an annual basis.

1. The POTW effluent shall be sampled on a day when industrial discharges are occurring at normal to maximum levels. Samples for the analysis of acid and base/neutral extractable compounds and metals shall be 24-hour composites. Samples for the analysis of volatile organic compounds shall be collected using grab sampling techniques at equal intervals for the total of four grab samples per day.

   A single analysis for volatile pollutants (Method 624) may be run for each monitoring day by compositing equal volumes of each grab sample directly in the GC purge and trap apparatus in the laboratory, with no less than 1 ml of each grab included in the composite.

   Unless otherwise indicated, all reported test data for metals shall represent the total amount of the constituent present in all phases, whether solid, suspended, or dissolved, elemental or combined including all oxidation states.

   Wastewater samples must be handled, prepared, and analyzed by GC/MS in accordance with the U.S. EPA Methods 624 and 625 (October 26, 1984).

2. Cyanide, phenols, and oils shall be taken as grab samples. Oils shall be hexane soluble or equivalent, and should be measured in the effluent only.

3. In addition to quantifying pH, oil and grease, and all priority pollutants, a reasonable attempt should be made to identify all other substances and quantify all pollutants shown to be present by gas chromatograph/mass spectrometer (GC/MS) analysis per 40 CFR 136, Appendix A, Methods 624 and 625. Determinations of pollutants should be attempted for each fraction, which produces identifiable spectra on total ion plots (reconstructed gas chromatograms). Determinations should be attempted from all peaks with responses 5 percent or greater than the nearest internal standard. The 5 percent

value is based on internal standard concentrations of 30 μg/l, and must be adjusted downward if higher internal standard concentrations are used or adjusted upward if lower internal standard concentrations are used. Non-substituted aliphatic compounds may be expressed as total hydrocarbon content. Identification shall be attempted by a laboratory whose computer data processing programs are capable of comparing sample mass spectra to a computerized library of mass spectra, with visual confirmation by an experienced analyst. For all detected substances which are determined to be pollutants, additional sampling and appropriate testing shall be conducted to determine concentration and variability, and to evaluate trends.

G. Reporting of Monitoring Results

The Permittee shall submit to the Department a summary of monitoring results by **December 31st** of each year.

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. ACUTE TOXICITY

A. Testing Requirements

Within one year of filing the Notice of Completion of Construction for the Phase 1A improvements, described in the city of Sequim Water Reclamation Facility Expansion Engineering Report, September 2007; the Permittee shall test final effluent once in the summer and once in the winter. The two species listed below shall be used on each sample and the results submitted to the Department within 30 days of receipt of sample results from the laboratory. The Permittee shall conduct acute toxicity testing on a series of five concentrations of effluent and a control in order to be able to determine appropriate point estimates and an NOEC. The percent survival in 100 percent effluent shall also be reported.

Acute toxicity tests shall be conducted with the following species and protocols:

1. Fathead minnow, *Pimephales promelas* (96-hour static-renewal test, method: EPA/600/4-90/027F)

2. Daphnid, *Ceriodaphnia dubia*, *Daphnia pulex*, or *Daphnia magna* (48-hour static test, method: EPA/600/4-90/027F).

B. Sampling and Reporting Requirements

1. All reports for effluent characterization or compliance monitoring shall be submitted in accordance with the most recent version of Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria* in regards to format and content. Reports shall contain bench sheets and reference toxicant results for test methods. If the lab provides

the toxicity test data on floppy disk for electronic entry into the Department's database, then the Permittee shall send the disk to the Department along with the test report, bench sheets, and reference toxicant results.

2. Testing shall be conducted on 24-hour composite effluent samples. Samples taken for toxicity testing shall be cooled to 4 degrees Celsius while being collected and shall be sent to the lab immediately upon completion. The lab shall begin the toxicity testing as soon as possible but no later than 36 hours after sampling was ended.

3. All samples and test solutions for toxicity testing shall have water quality measurements as specified in Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria* or most recent version thereof.

4. All toxicity tests shall meet quality assurance criteria and test conditions in the most recent versions of the EPA manual listed in subsection A. and the Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. If test results are determined to be invalid or anomalous by the Department, testing shall be repeated with freshly collected effluent.

5. Control water and dilution water shall be laboratory water meeting the requirements of the EPA manual listed in subsection A or pristine natural water of sufficient quality for good control performance.

6. The whole effluent toxicity tests shall be run on an unmodified sample of final effluent.

7. The Permittee may choose to conduct a full dilution series test during compliance monitoring in order to determine dose response. In this case, the series must have a minimum of five effluent concentrations and a control. The series of concentrations must include the ACEC.

8. All whole effluent toxicity tests, effluent screening tests, and rapid screening tests that involve hypothesis testing and do not comply with the acute statistical power standard of 29 percent as defined in WAC 173-205-020 must be repeated on a fresh sample with an increased number of replicates to increase the power.

S9. CHRONIC TOXICITY

A. Testing Requirements

Within one year of filing the Notice of Completion of Construction for the Phase 1A improvements, described in the City of Sequim Water Reclamation Facility Expansion Engineering Report, September 2007; the Permittee shall test final effluent once in the summer and once in the winter. All of the chronic toxicity tests listed below shall be conducted on each sample. The results of this chronic toxicity testing shall be submitted to the Department within 30 days of receipt of sample results from the laboratory.

The Permittee shall conduct chronic toxicity testing on a series of at least five concentrations of effluent and a control in order to be able to determine appropriate point estimates and an NOEC. This series of dilutions shall include the acute critical effluent concentration (ACEC). The Permittee shall compare the ACEC to the control using hypothesis testing at the 0.05 level of significance as described in Appendix H, EPA/600/4-89/001.

Chronic toxicity tests shall be conducted with the following species and the most recent version of the following protocols:

Freshwater Chronic Toxicity Test Species		Method
Fathead minnow	*Pimephales promelas*	EPA/600/4-91/002
Water flea	*Ceriodaphnia dubia*	EPA/600/4-91/002

Saltwater Chronic Toxicity Test Species		Method
Topsmelt or Silverside minnow	*Atherinops affinis or Menidia beryllina*	EPA/600/R-95/136 or EPA/600/4-91/003
Mysid shrimp	*Holmesimysis costata* or *Mysidopsis bahia*	EPA/600/R-95/136 or EPA/600/4-91/003

The Permittee shall use the West Coast mysid (*Holmesimysis costata*) for toxicity testing unless the lab cannot obtain a sufficient quantity of a West Coast species in good condition in which case the East Coast mysid (*Mysidopsis bahia*) may be substituted.

B. Sampling and Reporting Requirements

1. All reports for effluent characterization or compliance monitoring shall be submitted in accordance with the most recent version of Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria* in regards to format and content. Reports shall contain bench sheets and reference toxicant results for test methods. If the lab provides the toxicity test data on floppy disk for electronic entry into the Department's database, then the Permittee shall send the disk to the Department along with the test report, bench sheets, and reference toxicant results.

2. Testing shall be conducted on 24-hour composite effluent samples. Samples taken for toxicity testing shall be cooled to 4 degrees Celsius while being collected and shall be sent to the lab immediately upon completion. The lab shall begin the toxicity testing as soon as possible but no later than 36 hours after sampling was ended.

3. All samples and test solutions for toxicity testing shall have water quality measurements as specified in Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria* or most recent version thereof.

4. All toxicity tests shall meet quality assurance criteria and test conditions in the most recent versions of the EPA manual listed in subsection A. and the Department of Ecology Publication # WQ-R-95-80, *Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria*. If test results are determined to be invalid or anomalous by the Department, testing shall be repeated with freshly collected effluent.

5. Control water and dilution water shall be laboratory water meeting the requirements of the EPA manual listed in subsection A or pristine natural water of sufficient quality for good control performance.

6. The whole effluent toxicity tests shall be run on an unmodified sample of final effluent.

7. The Permittee may choose to conduct a full dilution series test in order to determine dose response. In this case, the series must have a minimum of five effluent concentrations and a control. The series of concentrations must include the ACEC and the CCEC. The ACEC and CCEC may either substitute for the effluent concentration that is closest to it in the dilution series or be an extra effluent concentration.

8. All whole effluent toxicity tests that involve hypothesis testing and do not comply with the chronic statistical power standard of 39 percent as defined in WAC 173-205-020 must be repeated on a fresh sample with an increased number of replicates to increase the power.

S10. OUTFALL EVALUATION

The Permittee shall inspect, once during the permit term, 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 the due date of the next application for permit renewal, the inspection report shall be submitted to the Department.

RECLAIMED WATER CONDITIONS

Beginning on the effective date of this permit and lasting through its expiration date, all wastewater produced by the Permittee for reclamation under this permit shall comply with the Special Conditions (S.) and General Conditions (G.) as well as the Reclaimed Water Conditions (R.) of this permit.

R1. RECLAIMED WATER DISTRIBUTION AND USE

A. Authorized Uses and Locations

The Permittee is authorized to distribute water reclaimed in accordance with the terms and conditions of this permit for authorized uses.

The distribution by the Permittee of reclaimed water that does not meet the treatment, water quality and monitoring requirements established in this permit or the use of reclaimed water other than for authorized uses and locations listed in a Departments of Health and Ecology approved reclaimed water engineering report shall constitute a violation of the terms and conditions of this permit.

B. Water Reuse Plan

The Permittee shall maintain a water reuse plan, which contains a summary description of the water reuse system. The Permittee shall review the plan at least annually and the plan shall be updated whenever new uses or users are added to the distribution system. A copy of the revised plan shall be submitted to the Departments of Ecology and Health. The plan shall contain, but not be limited to, the following:

1. Description of the reuse distribution system;

2. Identification of uses, users, location of reuse sites.

3. Evaluation of reuse sites, estimated volume of reclaimed water use, means of application, and for irrigation or surface percolation uses, the application rates, water balance, expected agronomic uptake, potential to impact ground water or surface water at the site, background water quality and hydrogeological information necessary to evaluate potential water quality impacts.

C. Reclaimed Water Operational Records

The Permittee shall maintain records and report to the Departments of Ecology and Health in accordance with Special Condition S3, and the following conditions. All records shall be retained for a minimum of three years. The falsification of information submitted to the Departments shall constitute a violation of the terms of this permit.

1. Operating records shall be maintained at the reclamation treatment plant or within a central depository within the Permittee's operating agency. These records shall include: records of all analyses performed, records of operational problems, unit process and equipment breakdowns, and diversions to emergency storage or disposal; and all corrective or preventative action taken

2. Process or equipment failures triggering an alarm that is key to maintaining reliability of reclaimed water quality shall be recorded and maintained as a separate record file. The recorded information shall include the time and cause of failure and corrective action taken.

3. A monthly summary of operating records as specified above shall be submitted with the Discharge Monitoring Report form to The Departments of Ecology and Health at that address listed under S3.A.

4. Cross Connection Control Report. An annual cross-connection control report shall be submitted to the Departments of Health by a certified Cross-Control Specialist identifying all devices tested and any cross-connection incidents which occurred in the reuse system.

D. Bypass Prohibited

There shall be no bypassing of untreated or partially treated wastewater from the reclamation plant or any intermediate unit processes to the distribution system or point of use at any time. All reclaimed water being distributed for beneficial use must meet Class A requirements at all times. Water not meeting Class A must be retained for additional

treatment by diversion to a bypass storage lagoon or discharged to an authorized wastewater outfall.

The Departments of Ecology and Health shall be notified by telephone within 24 hours of any diversion to a bypass storage lagoon or authorized outfall. Substandard wastewater shall not be discharged to the reclaimed water distribution system or use areas without specific approval from the Departments of Health and Ecology

E. Reliability

The Permittee shall maintain the highest reliability class as described in the Water Reclamation and Reuse Standards which require one of the following features for each of the critical reclamation treatment unit processes of oxidation, coagulation, filtration, and disinfection:

1. Alarms and standby power source

2. Alarms and automatically actuated short-term (24-hour) storage or disposal provisions.

3. Automatically actuated long-term storage or disposal provisions for treated wastewater.

F. Use Area Responsibilities

1. A standard notification sign shall be developed by the Permittee using colors and verbiage approved by the state Department of Health. The signs shall be used in all reclaimed water use areas, consistent with the Water Reclamation and Reuse Standards.

2. Reclaimed water use, including runoff and spray shall be confined to the designated and approved use area.

3. The Permittee shall control industrial and toxic discharges to the sanitary sewer that may affect reclaimed water quality through either a delegated pretreatment program with the Department or assuring all applicable discharges have permits issued under the Water Pollution Control Act, Chapter 90.48 RCW, and the State Waste Discharge Permit Regulation, Chapter 173-216 WAC.

4. Where the reclaimed water production, distribution and use areas are under direct control of the Permittee, the Permittee shall maintain control and be responsible for all facilities and activities inherent to the production, distribution and use of the reclaimed water. The Permittee shall ensure that the reuse system operates as approved by the Departments of Health and Ecology.

G. Service and Use Area Agreement

Where the reclaimed water additional treatment, distribution system or use area is not under direct control of the Permittee:

1. The person(s) who provides additional treatment, distributes, owns, or otherwise maintains control over the reclaimed water use area is responsible for reuse facilities and activities inherent to the production, distribution and use of the reclaimed water to ensure that the system operates as approved by the Departments of Health and Ecology in accordance with this Permit.

2. Reclaimed water uses, including runoff and spray, shall be confined to the designated and approved use areas.

3. A binding Service and Use Area Agreement among the parties involved is required to ensure that construction, operation, maintenance, and monitoring meet all requirements of the Departments of Health and Ecology. This agreement must be consistent with the requirements of the Water Reclamation and Reuse Standards, 1997. A copy of each Service and Use Area Agreement must be submitted to and approved by the Departments of Health and Ecology prior to implementation.

4. The Service and Use Area Agreement shall provide the Permittee with authority to terminate service of reclaimed water to a customer violating the State Water Reclamation and Reuse Standards and restrictions outlined in the Service and Use Area Agreement. The Service and Use Area Agreements shall be approved by the Departments of Health and Ecology prior to the distribution of any reclaimed water.

5. No reclaimed water shall be distributed by the Permittee without a reclaimed water service and use agreement approved by the Departments of Health and Ecology.

H. Reclaimed Water Ordinance

The Permittee shall complete a local ordinance to include policies and procedures for the distribution and delivery of reclaimed water. The ordinance shall provide the Permittee with the authority to terminate service of reclaimed water from any customer violating the state Water Reclamation and Reuse Standards and restrictions outlined in the service and use agreement.

I. Irrigation Use

1. For any irrigation use of reclaimed water, the hydraulic loading rate of reclaimed water shall be determined based on a detailed water balance analysis. The calculated loading rate(s) and the parameters and methods used to determine the loading rate(s) shall be submitted to the Department for approval.

2. There shall be no runoff of reclaimed water applied to land by spray irrigation to any surface waters of the state or to any land not authorized by approved use agreement.

3. There shall be no application of reclaimed water for irrigation purposes when the ground is saturated or frozen.

4. The reclaimed water shall not be applied to the irrigation lands in quantities that:

a. Significantly reduce or destroy the long-term infiltration rate of the soil.

b. Cause long-term anaerobic conditions in the soil.

c. Cause ponding of reclaimed water and produce objectionable odors or support insects or vectors.

d. Cause leaching losses of constituents of concern beyond the treatment zone or in excess of the approved design. Constituents of concern are constituents in the reclaimed water, partial decomposition products, or soil constituents that would alter ground water quality in amounts that would affect current and future beneficial uses.

The Permittee shall maintain all irrigation agreements for lands not owned for the duration of the permit. The Permittee shall inform the Departments of Health and Ecology in writing of any proposed changes to existing agreements.

R2. OPERATION AND MAINTENANCE

The Permittee shall operate and maintain the facility loading in accordance with Special Condition S5 and the following conditions.

A. Reclaimed Water System Maintenance

The Permittee shall institute an adequate Operation and Maintenance (O&M) program for the entire reclamation facility. Maintenance records shall be maintained on all major electrical and mechanical components of the treatment plant, collection, distribution and use areas. 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.

1. At all times, the reclamation facility, distribution and use areas shall be maintained to ensure that all equipment is kept in a reliable operating condition.

2. A chlorine residual of at least 0.5 mg/L shall be maintained in the reclaimed water during conveyance from the reclamation plant to the use area unless waived by the Departments of Health and Ecology.

3. Maintenance of a chlorine residual is not required in reclaimed water impoundments and storage ponds. At the discretion of the Departments of Health and Ecology, chlorine residual may not be required in reclaimed water distributed from storage ponds.

B. Operation and Maintenance Manual

The Operation and Maintenance Manual for the facility shall include the following reclaimed water information:

1. An alarm condition response plan to ensure that no untreated or inadequately treated wastewater will be delivered to the use areas.

2. A discussion of the cross-connection control and inspection program, including who will be responsible for compliance and testing of cross connection control devices.

3. Operational strategies for the reclaimed water use areas.

GENERAL CONDITIONS

G1. SIGNATORY REQUIREMENTS

All applications, reports, or information submitted to the Department 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 the Department 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 the Department.

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 the Department 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 the Department, 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 the Department'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. The Department 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 the Department determines that modification or revocation and reissuance is appropriate.

2. The Department 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 the Department 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 the Department 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 the Department. 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. DUTY TO REAPPLY

The Permittee shall apply for permit renewal by **December 1, 2009**.

G8. 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 the Department.

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 the Department 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. The Department 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.

G9. 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.

G10. 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.

G11. DUTY TO PROVIDE INFORMATION

The Permittee shall submit to the Department, within a reasonable time, all information which the Department 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 the Department upon request, copies of records required to be kept by this permit.

G12. OTHER REQUIREMENTS OF 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G13. ADDITIONAL MONITORING

The Department may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G14. PAYMENT OF FEES

The Permittee shall submit payment of fees associated with this permit as assessed by the Department.

G15. 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.

G16. 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.

G17. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G18. 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.

G19. 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.

G20. 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.

G21. REPORTING ANTICIPATED NON-COMPLIANCE

The Permittee shall give advance notice to the Department 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 the Department.

G22. 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 the Department, it shall promptly submit such facts or information.

G23. REPORTING REQUIREMENTS APPLICABLE TO EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL DISCHARGERS

The Permittee belonging to the categories of existing manufacturing, commercial, mining, or silviculture must notify the Department as soon as they know or have reason to believe:

A. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels:"

1. One hundred micrograms per liter (100 μg/l).

2. Two hundred micrograms per liter (200 μg/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony.

3. Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).

4. The level established by the Director in accordance with 40 CFR 122.44(f).

B. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following "notification levels:"

1. Five hundred micrograms per liter (500 μg/L).

2. One milligram per liter (1 mg/L).

3. Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).

4. The level established by the Director in accordance with 40 CFR 122.44(f).

G24. 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 D

PUMP STATION RUN-TIME PLOTS

Cedar Ridge Pump Station Data					
	Pump Reading		Run time (from previous)		
Date	Pump 1	Pump 2	Pump 1	Pump 2	
12/31/2010	25.11	22.74			
1/1/2011					**Pump 1 Run Time Max**
1/2/2011					0.38
1/3/2011	25.19	22.79	0.08	0.05	**Pump 2 Run Time Max**
1/4/2011	25.22	22.82	0.03	0.03	0.36
1/5/2011	25.25	22.85	0.03	0.03	**Pump 1 Average Run Time**
1/6/2011	25.28	22.87	0.03	0.02	0.06
1/7/2011	25.30	22.90	0.02	0.03	**Pump 2 Average Run Time**
1/8/2011					0.06
1/9/2011					
1/10/2011	25.42	23.01	0.12	0.11	
1/11/2011	25.44	23.04	0.02	0.03	
1/12/2011	25.50	23.09	0.06	0.05	
1/13/2011	25.61	23.18	0.11	0.09	
1/14/2011	25.66	23.32	0.05	0.14	
1/15/2011	25.74	23.32	0.08	0.00	
1/16/2011					
1/17/2011	25.97	23.51	0.23	0.19	
1/18/2011	26.08	23.62	0.11	0.11	
1/19/2011	26.16	23.70	0.08	0.08	
1/20/2011	26.25	23.79	0.09	0.09	
1/21/2011	26.33	23.87	0.08	0.08	
1/22/2011	26.59	24.15	0.26	0.28	
1/23/2011	26.70	24.23	0.11	0.08	
1/24/2011	26.78	24.34	0.08	0.11	
1/25/2011	26.90	24.43	0.12	0.09	
1/26/2011	26.95	24.52	0.05	0.09	
1/27/2011					
1/28/2011					
1/29/2011					
1/30/2011					
1/31/2011	27.18	24.71	0.23	0.19	
2/1/2011	27.27	24.77	0.09	0.06	
2/2/2011	27.33	24.83	0.06	0.06	
2/3/2011	27.39	24.92	0.06	0.09	
2/4/2011	27.44	24.97	0.05	0.05	
2/5/2011					
2/6/2011	27.62	25.12	0.18	0.15	
2/7/2011	27.70	25.23	0.08	0.11	
2/8/2011	27.79	25.29	0.09	0.06	
2/9/2011	27.88	25.38	0.09	0.09	

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
2/10/2011	27.94	25.46	0.06	0.08
2/11/2011	28.02	25.52	0.08	0.06
2/12/2011				
2/13/2011				
2/14/2011	28.23	25.75	0.21	0.23
2/15/2011	28.32	25.81	0.09	0.06
2/16/2011	28.38	25.87	0.06	0.06
2/17/2011	28.43	25.93	0.05	0.06
2/18/2011	28.45	25.96	0.02	0.03
2/19/2011				
2/20/2011				
2/21/2011				
2/22/2011	28.70	26.19	0.25	0.23
2/23/2011	28.78	26.24	0.08	0.05
2/24/2011	28.82	26.28	0.04	0.04
2/25/2011	28.84	26.33	0.02	0.05
2/26/2011				
2/27/2011	28.96	26.42	0.12	0.09
2/28/2011	29.05	26.48	0.09	0.06
3/1/2011	29.17	26.57	0.12	0.09
3/2/2011	29.22	26.65	0.05	0.08
3/3/2011	29.32	26.77	0.10	0.12
3/4/2011	29.40	26.86	0.08	0.09
3/5/2011				
3/6/2011				
3/7/2011	29.69	27.12	0.29	0.26
3/8/2011	29.78	27.24	0.09	0.12
3/9/2011	29.87	27.32	0.09	0.08
3/10/2011	29.99	27.41	0.12	0.09
3/11/2011	30.08	27.50	0.09	0.09
3/12/2011	30.35	27.77	0.27	0.27
3/13/2011				
3/14/2011				
3/15/2011	30.47	27.85	0.12	0.08
3/16/2011	30.55	28.00	0.08	0.15
3/17/2011	30.71	28.12	0.16	0.12
3/18/2011	30.83	28.25	0.12	0.13
3/19/2011	30.98	28.34	0.15	0.09
3/20/2011				
3/21/2011	31.17	28.52	0.19	0.18
3/22/2011	31.26	28.52	0.09	0.00

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
3/23/2011	31.39	28.70	0.13	0.18
3/24/2011	31.45	28.82	0.06	0.12
3/25/2011	31.54	28.92	0.09	0.10
3/26/2011				
3/27/2011				
3/28/2011	31.80	29.20	0.26	0.28
3/29/2011	31.98	29.29	0.18	0.09
3/30/2011	32.07	29.45	0.09	0.16
3/31/2011				
4/1/2011	32.30	29.60	0.23	0.15
4/2/2011				
4/3/2011	32.68	29.96	0.38	0.36
4/4/2011	32.81	30.12	0.13	0.16
4/5/2011	32.98	30.25	0.17	0.13
4/6/2011	33.11	30.38	0.13	0.13
4/7/2011	33.24	30.54	0.13	0.16
4/8/2011	33.34	30.60	0.10	0.06
4/9/2011				
4/10/2011	33.53	30.80	0.19	0.20
4/11/2011	33.63	30.89	0.10	0.09
4/12/2011	33.69	30.96	0.06	0.07
4/13/2011	33.76	31.05	0.07	0.09
4/14/2011	33.86	31.12	0.10	0.07
4/15/2011	33.92	31.22	0.06	0.10
4/16/2011				
4/17/2011	34.06	31.34	0.14	0.12
4/18/2011	34.15	31.41	0.09	0.07
4/19/2011	34.21	31.47	0.06	0.06
4/20/2011	34.28	31.50	0.07	0.03
4/21/2011	34.34	31.56	0.06	0.06
4/22/2011	34.37	31.63	0.03	0.07
4/23/2011	34.44	31.66	0.07	0.03
4/24/2011	34.53	31.75	0.09	0.09
4/25/2011	34.56	31.82	0.03	0.07
4/26/2011	34.63	31.85	0.07	0.03
4/27/2011	34.69	31.91	0.06	0.06
4/28/2011	34.72	31.94	0.03	0.03
4/29/2011				
4/30/2011	34.75	32.00	0.03	0.06
5/1/2011				
5/2/2011	34.85	32.10	0.10	0.10

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
5/3/2011	34.91	32.13	0.06	0.03
5/4/2011	34.94	32.16	0.03	0.03
5/5/2011	35.00	32.19	0.06	0.03
5/6/2011	35.04	32.22	0.04	0.03
5/7/2011	35.07	32.28	0.03	0.06
5/8/2011				
5/9/2011	35.16	32.34	0.09	0.06
5/10/2011	35.19	32.41	0.03	0.07
5/11/2011	35.22	32.44	0.03	0.03
5/12/2011	35.28	32.47	0.06	0.03
5/13/2011	35.32	32.50	0.04	0.03
5/14/2011	35.35	32.56	0.03	0.06
5/15/2011				
5/16/2011	35.63	32.81	0.28	0.25
5/17/2011	35.75	32.98	0.12	0.17
5/18/2011	35.91	33.12	0.16	0.14
5/19/2011	35.97	33.18	0.06	0.06
5/20/2011	36.06	33.27	0.09	0.09
5/21/2011				
5/22/2011	36.25	33.39	0.19	0.12
5/23/2011	36.31	33.49	0.06	0.10
5/24/2011	36.37	33.52	0.06	0.03
5/25/2011	36.43	33.58	0.06	0.06
5/26/2011	36.48	33.64	0.05	0.06
5/27/2011	36.52	33.70	0.04	0.06
5/28/2011	36.58	33.73	0.06	0.03
5/29/2011	36.61	33.76	0.03	0.03
5/30/2011				
5/31/2011	36.70	33.84	0.09	0.08
6/1/2011	36.73	33.90	0.03	0.06
6/2/2011	36.76	33.93	0.03	0.03
6/3/2011	36.82	33.96	0.06	0.03
6/4/2011	36.85	33.99	0.03	0.03
6/5/2011				
6/6/2011	36.92	34.00	0.07	0.01
6/7/2011	36.97	34.12	0.05	0.12
6/8/2011	37.01	34.15	0.04	0.03
6/9/2011	37.04	34.16	0.03	0.01
6/10/2011	37.07	34.20	0.03	0.04
6/11/2011	37.10	34.24	0.03	0.04
6/12/2011				

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
6/13/2011	37.17	34.30	0.07	0.06
6/14/2011	37.22	34.33	0.05	0.03
6/15/2011	37.25	34.35	0.03	0.02
6/16/2011	37.28	34.39	0.03	0.04
6/17/2011	37.31	34.42	0.03	0.03
6/18/2011				
6/19/2011	37.37	34.48	0.06	0.06
6/20/2011	37.40	34.51	0.03	0.03
6/21/2011	37.41	34.54	0.01	0.03
6/22/2011	37.43	34.57	0.02	0.03
6/23/2011	37.46	34.60	0.03	0.03
6/24/2011	37.49	34.60	0.03	0.00
6/25/2011	37.52	34.63	0.03	0.03
6/26/2011				
6/27/2011	37.58	34.69	0.06	0.06
6/28/2011	37.61	34.72	0.03	0.03
6/29/2011	37.64	34.72	0.03	0.00
6/30/2011	37.67	34.75	0.03	0.03
7/1/2011	37.70	34.78	0.03	0.03
7/2/2011	37.70	34.81	0.00	0.03
7/3/2011				
7/4/2011	37.76	34.83	0.06	0.02
7/5/2011	37.79	34.87	0.03	0.04
7/6/2011	37.79	34.89	0.00	0.02
7/7/2011	37.82	34.92	0.03	0.03
7/8/2011	37.85	34.92	0.03	0.00
7/9/2011				
7/10/2011	37.90	34.98	0.05	0.06
7/11/2011	37.91	35.01	0.01	0.03
7/12/2011	37.93	35.04	0.02	0.03
7/13/2011	37.96	35.07	0.03	0.03
7/14/2011	37.99	35.07	0.03	0.00
7/15/2011	38.00	35.10	0.01	0.03
7/16/2011				
7/17/2011	38.09	35.13	0.09	0.03
7/18/2011	38.12	35.19	0.03	0.06
7/19/2011	38.15	35.19	0.03	0.00
7/20/2011	38.18	35.21	0.03	0.02
7/21/2011	38.18	35.24	0.00	0.03
7/22/2011	38.20	35.27	0.02	0.03
7/23/2011				

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
7/24/2011	38.29	35.30	0.09	0.03
7/25/2011	38.32	35.33	0.03	0.03
7/26/2011	38.32	35.36	0.00	0.03
7/27/2011	38.35	35.39	0.03	0.03
7/28/2011	38.38	35.39	0.03	0.00
7/29/2011	38.41	35.42	0.03	0.03
7/30/2011	38.41	35.44	0.00	0.02
7/31/2011				
8/1/2011	38.46	35.47	0.05	0.03
8/2/2011	38.49	35.50	0.03	0.03
8/3/2011	38.49	35.53	0.00	0.03
8/4/2011	38.52	35.56	0.03	0.03
8/5/2011	38.55	35.56	0.03	0.00
8/6/2011	38.58	35.59	0.03	0.03
8/7/2011				
8/8/2011	38.62	35.64	0.04	0.05
8/9/2011	38.67	35.68	0.05	0.04
8/10/2011	38.70	35.70	0.03	0.02
8/11/2011	38.72	35.73	0.02	0.03
8/12/2011	38.75	35.76	0.03	0.03
8/13/2011	38.75	35.79	0.00	0.03
8/14/2011				
8/15/2011	38.81	35.85	0.06	0.06
8/16/2011	38.87	35.85	0.06	0.00
8/17/2011	38.87	35.87	0.00	0.02
8/18/2011	38.87	35.90	0.00	0.03
8/19/2011	38.90	35.93	0.03	0.03
8/20/2011				
8/21/2011	38.96	35.99	0.06	0.06
8/22/2011	38.98	35.99	0.02	0.00
8/23/2011	39.01	36.05	0.03	0.06
8/24/2011	39.04	36.08	0.03	0.03
8/25/2011	39.10	36.10	0.06	0.02
8/26/2011	39.13	36.16	0.03	0.06
8/27/2011	39.19	36.19	0.06	0.03
8/28/2011				
8/29/2011	39.28	36.31	0.09	0.12
8/30/2011	39.33	36.34	0.05	0.03
8/31/2011	39.36	36.39	0.03	0.05
9/1/2011	39.45	36.45	0.09	0.06
9/2/2011	39.48	36.51	0.03	0.06

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
9/3/2011				
9/4/2011	39.62	36.59	0.14	0.08
9/5/2011	39.67	36.65	0.05	0.06
9/6/2011	39.73	36.70	0.06	0.05
9/7/2011	39.79	36.76	0.06	0.06
9/8/2011	39.85	36.82	0.06	0.06
9/9/2011	39.90	36.88	0.05	0.06
9/10/2011	39.96	36.96	0.06	0.08
9/11/2011	40.08	37.08	0.12	0.12
9/12/2011	40.16	37.14	0.08	0.06
9/13/2011	40.22	37.19	0.06	0.05
9/14/2011	40.28	37.28	0.06	0.09
9/15/2011	40.34	37.34	0.06	0.06
9/16/2011				
9/17/2011	40.42	37.37	0.08	0.03
9/18/2011				
9/19/2011	40.48	37.45	0.06	0.08
9/20/2011	40.51	37.48	0.03	0.03
9/21/2011	40.56	37.50	0.05	0.02
9/22/2011	40.56	37.53	0.00	0.03
9/23/2011	40.59	37.56	0.03	0.03
9/24/2011	40.62	37.56	0.03	0.00
9/25/2011				
9/26/2011	40.70	37.62	0.08	0.06
9/27/2011	40.73	37.65	0.03	0.03
9/28/2011	40.76	37.68	0.03	0.03
9/29/2011	40.79	37.70	0.03	0.02
9/30/2011	40.79	37.73	0.00	0.03
10/1/2011	40.82	37.76	0.03	0.03
10/2/2011	40.87	37.82	0.05	0.06
10/3/2011				
10/4/2011	40.90	37.85	0.03	0.03
10/5/2011	40.93	37.85	0.03	0.00
10/6/2011	40.96	37.87	0.03	0.02
10/7/2011	40.96	37.90	0.00	0.03
10/8/2011	41.02	37.90	0.06	0.00
10/9/2011	41.05	37.93	0.03	0.03
10/10/2011	41.07	37.96	0.02	0.03
10/11/2011	41.10	37.98	0.03	0.02
10/12/2011	41.10	38.02	0.00	0.04
10/13/2011	41.13	38.02	0.03	0.00

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
10/14/2011	41.18	38.05	0.05	0.03
10/15/2011	41.18	38.07	0.00	0.02
10/16/2011				
10/17/2011	41.22	38.10	0.04	0.03
10/18/2011	41.25	38.13	0.03	0.03
10/19/2011	41.25	38.16	0.00	0.03
10/20/2011	41.28	38.16	0.03	0.00
10/21/2011	41.30	38.19	0.02	0.03
10/22/2011				
10/23/2011	41.33	38.24	0.03	0.05
10/24/2011	41.36	38.24	0.03	0.00
10/25/2011	41.39	38.27	0.03	0.03
10/26/2011	41.39	38.30	0.00	0.03
10/27/2011	41.41	38.33	0.02	0.03
10/28/2011	41.45	38.33	0.04	0.00
10/29/2011	41.45	38.36	0.00	0.03
10/30/2011	41.48	38.39	0.03	0.03
10/31/2011	41.51	38.41	0.03	0.02
11/1/2011	41.53	38.42	0.02	0.01
11/2/2011	41.56	38.44	0.03	0.02
11/3/2011	41.56	38.47	0.00	0.03
11/4/2011	41.59	38.47	0.03	0.00
11/5/2011	41.59	38.50	0.00	0.03
11/6/2011				
11/7/2011	41.65	38.53	0.06	0.03
11/8/2011	41.65	38.56	0.00	0.03
11/9/2011	41.68	38.56	0.03	0.00
11/10/2011	41.68	38.58	0.00	0.02
11/11/2011				
11/12/2011				
11/13/2011	41.74	38.62	0.06	0.04
11/14/2011	41.77	38.65	0.03	0.03
11/15/2011	41.77	38.67	0.00	0.02
11/16/2011	41.79	38.67	0.02	0.00
11/17/2011	41.82	38.70	0.03	0.03
11/18/2011	41.82	38.73	0.00	0.03
11/19/2011	41.85	38.76	0.03	0.03
11/20/2011				
11/21/2011	41.91	38.79	0.06	0.03
11/22/2011	41.94	38.84	0.03	0.05
11/23/2011	42.02	38.93	0.08	0.09

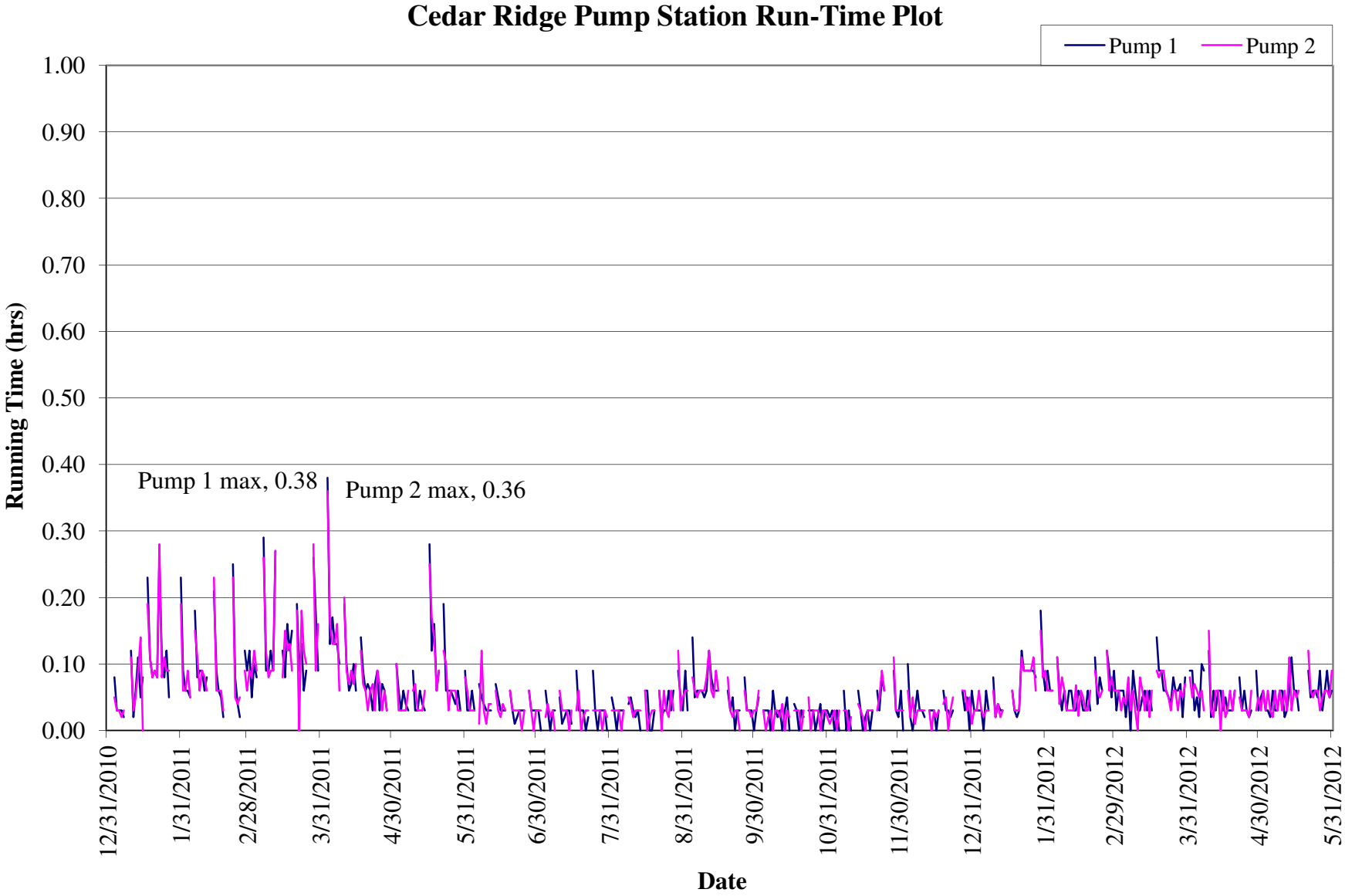
Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
11/24/2011	42.08	38.99	0.06	0.06
11/25/2011				
11/26/2011	42.20	39.08	0.12	0.09
11/27/2011				
11/28/2011	42.29	39.19	0.09	0.11
11/29/2011	42.32	39.22	0.03	0.03
11/30/2011	42.34	39.25	0.02	0.03
12/1/2011	42.40	39.28	0.06	0.03
12/2/2011	42.40	39.31	0.00	0.03
12/3/2011				
12/4/2011	42.50	39.37	0.10	0.06
12/5/2011	42.52	39.39	0.02	0.02
12/6/2011	42.52	39.44	0.00	0.05
12/7/2011	42.55	39.45	0.03	0.01
12/8/2011	42.61	39.48	0.06	0.03
12/9/2011	42.64	39.51	0.03	0.03
12/10/2011	42.67	39.54	0.03	0.03
12/11/2011	42.69	39.57	0.02	0.03
12/12/2011				
12/13/2011	42.72	39.60	0.03	0.03
12/14/2011	42.75	39.60	0.03	0.00
12/15/2011	42.78	39.63	0.03	0.03
12/16/2011	42.78	39.65	0.00	0.02
12/17/2011	42.81	39.68	0.03	0.03
12/18/2011				
12/19/2011	42.87	39.72	0.06	0.04
12/20/2011	42.90	39.77	0.03	0.05
12/21/2011	42.93	39.77	0.03	0.00
12/22/2011	42.95	39.80	0.02	0.03
12/23/2011	42.98	39.85	0.03	0.05
12/24/2011				
12/25/2011	43.04	39.85	0.06	0.00
12/26/2011				
12/27/2011	43.10	39.91	0.06	0.06
12/28/2011	43.13	39.97	0.03	0.06
12/29/2011	43.18	40.00	0.05	0.03
12/30/2011	43.18	40.05	0.00	0.05
12/31/2011	43.24	40.06	0.06	0.01
1/1/2012	43.27	40.09	0.03	0.03
1/2/2012	43.30	40.12	0.03	0.03
1/3/2012	43.33	40.18	0.03	0.06

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
1/4/2012	43.36	40.21	0.03	0.03
1/5/2012	43.36	40.23	0.00	0.02
1/6/2012	43.42	40.26	0.06	0.03
1/7/2012	43.45	40.29	0.03	0.03
1/8/2012				
1/9/2012	43.53	40.35	0.08	0.06
1/10/2012	43.55	40.37	0.02	0.02
1/11/2012	43.59	40.41	0.04	0.04
1/12/2012	43.62	40.43	0.03	0.02
1/13/2012	43.65	40.46	0.03	0.03
1/14/2012				
1/15/2012	43.71	40.52	0.06	0.06
1/16/2012				
1/17/2012	43.77	40.58	0.06	0.06
1/18/2012	43.80	40.61	0.03	0.03
1/19/2012	43.82	40.64	0.02	0.03
1/20/2012	43.85	40.67	0.03	0.03
1/21/2012	43.97	40.78	0.12	0.11
1/22/2012	44.06	40.87	0.09	0.09
1/23/2012	44.15	40.96	0.09	0.09
1/24/2012	44.24	41.05	0.09	0.09
1/25/2012	44.33	41.14	0.09	0.09
1/26/2012	44.42	41.25	0.09	0.11
1/27/2012	44.50	41.31	0.08	0.06
1/28/2012				
1/29/2012	44.68	41.46	0.18	0.15
1/30/2012	44.77	41.54	0.09	0.08
1/31/2012	44.83	41.63	0.06	0.09
2/1/2012	44.92	41.69	0.09	0.06
2/2/2012	44.98	41.75	0.06	0.06
2/3/2012	45.04	41.81	0.06	0.06
2/4/2012				
2/5/2012	45.15	41.92	0.11	0.11
2/6/2012	45.21	41.96	0.06	0.04
2/7/2012	45.24	42.04	0.03	0.08
2/8/2012	45.30	42.10	0.06	0.06
2/9/2012	45.33	42.13	0.03	0.03
2/10/2012	45.39	42.16	0.06	0.03
2/11/2012	45.45	42.19	0.06	0.03
2/12/2012	45.48	42.22	0.03	0.03
2/13/2012	45.51	42.29	0.03	0.07

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
2/14/2012	45.57	42.31	0.06	0.02
2/15/2012	45.62	42.37	0.05	0.06
2/16/2012	45.65	42.42	0.03	0.05
2/17/2012	45.68	42.45	0.03	0.03
2/18/2012	45.74	42.48	0.06	0.03
2/19/2012	45.77	42.54	0.03	0.06
2/20/2012				
2/21/2012	45.88	42.63	0.11	0.09
2/22/2012	45.92	42.69	0.04	0.06
2/23/2012	46.00	42.74	0.08	0.05
2/24/2012	46.06	42.80	0.06	0.06
2/25/2012				
2/26/2012	46.18	42.92	0.12	0.12
2/27/2012	46.27	42.98	0.09	0.06
2/28/2012	46.32	43.06	0.05	0.08
2/29/2012	46.41	43.12	0.09	0.06
3/1/2012	46.44	43.18	0.03	0.06
3/2/2012	46.50	43.24	0.06	0.06
3/3/2012	46.56	43.27	0.06	0.03
3/4/2012	46.62	43.32	0.06	0.05
3/5/2012	46.64	43.36	0.02	0.04
3/6/2012	46.70	43.44	0.06	0.08
3/7/2012	46.70	43.47	0.00	0.03
3/8/2012	46.79	43.53	0.09	0.06
3/9/2012	46.85	43.56	0.06	0.03
3/10/2012	46.88	43.56	0.03	0.00
3/11/2012	46.91	43.64	0.03	0.08
3/12/2012	46.96	43.70	0.05	0.06
3/13/2012	47.02	43.73	0.06	0.03
3/14/2012	47.05	43.79	0.03	0.06
3/15/2012	47.11	43.81	0.06	0.02
3/16/2012	47.14	43.87	0.03	0.06
3/17/2012				
3/18/2012	47.28	43.96	0.14	0.09
3/19/2012	47.37	44.04	0.09	0.08
3/20/2012	47.46	44.13	0.09	0.09
3/21/2012	47.52	44.22	0.06	0.09
3/22/2012	47.58	44.28	0.06	0.06
3/23/2012	47.63	44.33	0.05	0.05
3/24/2012	47.67	44.36	0.04	0.03
3/25/2012	47.75	44.42	0.08	0.06

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
3/26/2012	47.81	44.48	0.06	0.06
3/27/2012	47.87	44.51	0.06	0.03
3/28/2012	47.94	44.57	0.07	0.06
3/29/2012	47.96	44.62	0.02	0.05
3/30/2012	48.04	44.69	0.08	0.07
3/31/2012				
4/1/2012	48.13	44.77	0.09	0.08
4/2/2012	48.22	44.82	0.09	0.05
4/3/2012	48.25	44.89	0.03	0.07
4/4/2012	48.30	44.95	0.05	0.06
4/5/2012	48.32	45.00	0.02	0.05
4/6/2012	48.42	45.06	0.10	0.06
4/7/2012	48.51	45.09	0.09	0.03
4/8/2012				
4/9/2012	48.63	45.24	0.12	0.15
4/10/2012	48.65	45.27	0.02	0.03
4/11/2012	48.71	45.29	0.06	0.02
4/12/2012	48.74	45.35	0.03	0.06
4/13/2012	48.80	45.41	0.06	0.06
4/14/2012	48.86	45.41	0.06	0.00
4/15/2012	48.89	45.47	0.03	0.06
4/16/2012	48.94	45.49	0.05	0.02
4/17/2012	48.97	45.52	0.03	0.03
4/18/2012	49.00	45.58	0.03	0.06
4/19/2012	49.03	45.61	0.03	0.03
4/20/2012	49.09	45.67	0.06	0.06
4/21/2012				
4/22/2012	49.17	45.72	0.08	0.05
4/23/2012	49.20	45.75	0.03	0.03
4/24/2012	49.26	45.78	0.06	0.03
4/25/2012	49.29	45.81	0.03	0.03
4/26/2012	49.31	45.83	0.02	0.02
4/27/2012	49.34	45.89	0.03	0.06
4/28/2012				
4/29/2012	49.43	45.92	0.09	0.03
4/30/2012	49.46	45.97	0.03	0.05
5/1/2012	49.51	46.00	0.05	0.03
5/2/2012	49.57	46.06	0.06	0.06
5/3/2012	49.60	46.09	0.03	0.03
5/4/2012	49.63	46.15	0.03	0.06
5/5/2012	49.65	46.18	0.02	0.03

Cedar Ridge Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
5/6/2012	49.71	46.20	0.06	0.02
5/7/2012	49.74	46.26	0.03	0.06
5/8/2012	49.77	46.29	0.03	0.03
5/9/2012	49.83	46.35	0.06	0.06
5/10/2012	49.89	46.38	0.06	0.03
5/11/2012	49.91	46.44	0.02	0.06
5/12/2012	49.94	46.47	0.03	0.03
5/13/2012	50.00	46.58	0.06	0.11
5/14/2012	50.11	46.61	0.11	0.03
5/15/2012	50.17	46.67	0.06	0.06
5/16/2012	50.23	46.72	0.06	0.05
5/17/2012	50.26	46.78	0.03	0.06
5/18/2012				
5/19/2012	50.34	46.80	0.08	0.02
5/20/2012				
5/21/2012	50.43	46.92	0.09	0.12
5/22/2012	50.48	46.98	0.05	0.06
5/23/2012	50.54	47.03	0.06	0.05
5/24/2012	50.60	47.09	0.06	0.06
5/25/2012	50.65	47.15	0.05	0.06
5/26/2012	50.74	47.18	0.09	0.03
5/27/2012	50.77	47.23	0.03	0.05
5/28/2012	50.83	47.29	0.06	0.06
5/29/2012	50.92	47.35	0.09	0.06
5/30/2012	50.97	47.40	0.05	0.05
5/31/2012	51.03	47.49	0.06	0.09


Cedar Ridge Pump Station Run-Time Plot
Pump 1
Pump 2
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
Running Time (hrs)
Pump 1 max, 0.38
Pump 2 max, 0.36
12/31/2010
1/31/2011
2/28/2011
3/31/2011
4/30/2011
5/31/2011
6/30/2011
7/31/2011
8/31/2011
9/30/2011
10/31/2011
11/30/2011
12/31/2011
1/31/2012
2/29/2012
3/31/2012
4/30/2012
5/31/2012
Date

Doe Run Pump Station Data					
	Pump Reading		Run time (from previous)		
Date	Pump 1	Pump 2	Pump 1	Pump 2	
12/31/2010	2,974.40	1,969.10			
1/1/2011	2,975.20	1,970.20	0.80	1.10	**Pump 1 Run Time Max**
1/2/2011	2,976.00	1,971.40	0.80	1.20	6.90
1/3/2011	2,976.90	1,972.50	0.90	1.10	**Pump 2 Run Time Max**
1/4/2011	2,977.70	1,973.50	0.80	1.00	6.90
1/5/2011	2,978.40	1,974.50	0.70	1.00	**Pump 1 Average Run Time**
1/6/2011	2,979.20	1,975.70	0.80	1.20	1.39
1/7/2011	2,980.00	1,976.60	0.80	0.90	**Pump 2 Average Run Time**
1/9/2011	2,981.70	1,979.10	1.70	2.50	1.45
1/10/2011	2,982.80	1,980.70	1.10	1.60	
1/11/2011	2,983.50	1,981.70	0.70	1.00	
1/12/2011	2,984.50	1,982.80	1.00	1.10	
1/13/2011	2,986.10	1,984.10	1.60	1.30	
1/14/2011	2,988.00	1,987.30	1.90	3.20	
1/15/2011	2,989.60	1,989.50	1.60	2.20	
1/16/2011	2,991.40	1,992.20	1.80	2.70	
1/17/2011	2,993.80	1,995.20	2.40	3.00	
1/18/2011	2,996.00	1,998.00	2.20	2.80	
1/19/2011	2,998.80	2,000.30	2.80	2.30	
1/20/2011	3,000.70	2,002.60	1.90	2.30	
1/21/2011	3,003.00	2,004.80	2.30	2.20	
1/22/2011	3,005.20	2,007.00	2.20	2.20	
1/23/2011	3,007.50	2,009.30	2.30	2.30	
1/24/2011	3,009.40	2,012.20	1.90	2.90	
1/25/2011	3,011.70	2,014.70	2.30	2.50	
1/26/2011	3,014.30	2,017.00	2.60	2.30	
1/27/2011	3,016.80	2,019.60	2.50	2.60	
1/28/2011	3,018.60	2,021.60	1.80	2.00	
1/29/2011	3,020.10	2,023.70	1.50	2.10	
1/30/2011	3,022.20	2,026.10	2.10	2.40	
1/31/2011	3,024.20	2,028.30	2.00	2.20	
2/1/2011	3,025.80	2,030.50	1.60	2.20	
2/2/2011	3,027.70	2,032.30	1.90	1.80	
2/3/2011	3,029.30	2,034.30	1.60	2.00	
2/4/2011	3,030.80	2,036.10	1.50	1.80	
2/5/2011	3,032.70	2,038.40	1.90	2.30	
2/6/2011	3,035.10	2,040.70	2.40	2.30	
2/7/2011	3,037.30	2,043.70	2.20	3.00	
2/8/2011	3,039.00	2,046.50	1.70	2.80	
2/9/2011	3,041.70	2,049.10	2.70	2.60	
2/10/2011	3,043.70	2,051.50	2.00	2.40	
2/11/2011	3,045.30	2,054.00	1.60	2.50	
2/12/2011	3,046.90	2,056.00	1.60	2.00	
2/13/2011	3,048.80	2,058.50	1.90	2.50	
2/14/2011	3,050.70	2,060.70	1.90	2.20	
2/15/2011	3,052.40	2,063.50	1.70	2.80	
2/16/2011	3,053.80	2,066.30	1.40	2.80	

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
2/17/2011	3,055.40	2,068.80	1.60	2.50
2/18/2011	3,057.20	2,071.00	1.80	2.20
2/19/2011	3,058.60	2,073.30	1.40	2.30
2/20/2011	3,060.20	2,075.50	1.60	2.20
2/21/2011	3,061.70	2,077.50	1.50	2.00
2/22/2011	3,063.10	2,079.50	1.40	2.00
2/23/2011	3,064.70	2,081.20	1.60	1.70
2/24/2011	3,065.60	2,083.30	0.90	2.10
2/25/2011	3,065.60	2,086.50	0.00	3.20
2/26/2011	3,065.60	2,089.40	0.00	2.90
2/27/2011	3,065.60	2,092.60	0.00	3.20
2/28/2011	3,065.60	2,096.10	0.00	3.50
3/1/2011	3,065.70	2,099.20	0.10	3.10
3/2/2011	3,065.70	2,102.90	0.00	3.70
3/3/2011	3,065.70	2,107.90	0.00	5.00
3/4/2011	3,067.30	2,110.80	1.60	2.90
3/5/2011	3,069.20	2,112.90	1.90	2.10
3/6/2011	3,071.60	2,115.20	2.40	2.30
3/7/2011	3,074.40	2,117.60	2.80	2.40
3/8/2011	3,076.00	2,119.70	1.60	2.10
3/9/2011	3,077.80	2,121.60	1.80	1.90
3/10/2011	3,080.10	2,123.90	2.30	2.30
3/11/2011	3,082.30	2,126.20	2.20	2.30
3/12/2011	3,084.40	2,128.50	2.10	2.30
3/13/2011	3,086.60	2,130.60	2.20	2.10
3/14/2011	3,089.00	2,132.90	2.40	2.30
3/15/2011	3,091.80	2,135.80	2.80	2.90
3/16/2011	3,094.60	2,138.50	2.80	2.70
3/17/2011	3,097.70	2,141.60	3.10	3.10
3/18/2011	3,100.60	2,144.40	2.90	2.80
3/19/2011	3,103.00	2,146.80	2.40	2.40
3/20/2011	3,105.50	2,149.30	2.50	2.50
3/21/2011	3,108.20	2,152.00	2.70	2.70
3/22/2011	3,111.10	2,154.80	2.90	2.80
3/23/2011	3,113.50	2,157.00	2.40	2.20
3/24/2011	3,116.20	2,159.60	2.70	2.60
3/25/2011	3,118.50	2,162.90	2.30	3.30
3/26/2011	3,121.70	2,165.70	3.20	2.80
3/27/2011	3,124.80	2,167.90	3.10	2.20
3/28/2011	3,127.70	2,171.10	2.90	3.20
3/29/2011	3,130.30	2,173.80	2.60	2.70
3/30/2011	3,132.80	2,176.20	2.50	2.40
3/31/2011	3,135.50	2,178.90	2.70	2.70
4/1/2011	3,138.90	2,181.80	3.40	2.90
4/2/2011	3,143.90	2,186.20	5.00	4.40
4/4/2011	3,150.80	2,193.10	6.90	6.90
4/5/2011	3,153.80	2,195.90	3.00	2.80
4/6/2011	3,156.70	2,198.70	2.90	2.80
4/7/2011	3,160.00	2,202.20	3.30	3.50
4/8/2011	3,162.20	2,204.20	2.20	2.00

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
4/9/2011	3,164.30	2,206.60	2.10	2.40
4/10/2011	3,167.00	2,209.00	2.70	2.40
4/11/2011	3,169.80	2,211.50	2.80	2.50
4/12/2011	3,172.10	2,213.90	2.30	2.40
4/13/2011	3,174.10	2,215.90	2.00	2.00
4/14/2011	3,176.50	2,218.00	2.40	2.10
4/15/2011	3,178.50	2,220.00	2.00	2.00
4/16/2011	3,180.40	2,222.20	1.90	2.20
4/17/2011	3,182.50	2,224.20	2.10	2.00
4/18/2011	3,184.70	2,225.90	2.20	1.70
4/19/2011	3,186.50	2,227.80	1.80	1.90
4/20/2011	3,188.20	2,229.40	1.70	1.60
4/21/2011	3,189.80	2,231.30	1.60	1.90
4/22/2011	3,191.40	2,232.70	1.60	1.40
4/23/2011	3,192.70	2,234.30	1.30	1.60
4/24/2011	3,194.30	2,235.60	1.60	1.30
4/25/2011	3,196.00	2,237.20	1.70	1.60
4/26/2011	3,197.00	2,238.50	1.00	1.30
4/27/2011	3,199.00	2,240.00	2.00	1.50
4/28/2011	3,200.70	2,241.50	1.70	1.50
4/29/2011	3,202.00	2,243.10	1.30	1.60
4/30/2011	3,203.50	2,244.60	1.50	1.50
5/1/2011	3,205.00	2,246.10	1.50	1.50
5/2/2011	3,206.90	2,247.80	1.90	1.70
5/3/2011	3,208.40	2,249.50	1.50	1.70
5/4/2011	3,209.80	2,250.80	1.40	1.30
5/5/2011	3,211.30	2,252.30	1.50	1.50
5/6/2011	3,212.70	2,253.50	1.40	1.20
5/7/2011	3,214.20	2,255.00	1.50	1.50
5/8/2011	3,215.80	2,256.50	1.60	1.50
5/9/2011	3,217.70	2,258.20	1.90	1.70
5/10/2011	3,219.20	2,259.90	1.50	1.70
5/11/2011	3,220.60	2,261.40	1.40	1.50
5/12/2011	3,222.30	2,262.90	1.70	1.50
5/13/2011	3,224.10	2,264.60	1.80	1.70
5/14/2011	3,225.50	2,266.30	1.40	1.70
5/15/2011	3,227.70	2,268.50	2.20	2.20
5/16/2011	3,233.30	2,274.00	5.60	5.50
5/17/2011	3,237.00	2,277.50	3.70	3.50
5/18/2011	3,240.10	2,280.60	3.10	3.10
5/19/2011	3,242.00	2,282.60	1.90	2.00
5/20/2011	3,244.30	2,284.40	2.30	1.80
5/21/2011	3,246.20	2,286.30	1.90	1.90
5/22/2011	3,248.40	2,288.40	2.20	2.10
5/23/2011	3,250.60	2,290.50	2.20	2.10
5/24/2011	3,252.50	2,292.50	1.90	2.00
5/25/2011	3,254.30	2,294.30	1.80	1.80
5/26/2011	3,256.00	2,296.10	1.70	1.80
5/27/2011	3,257.90	2,297.70	1.90	1.60
5/28/2011	3,259.20	2,299.30	1.30	1.60

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
5/29/2011	3,261.20	2,301.20	2.00	1.90
5/30/2011	3,262.70	2,302.70	1.50	1.50
5/31/2011	3,264.60	2,304.50	1.90	1.80
6/1/2011	3,266.10	2,306.00	1.50	1.50
6/2/2011	3,267.60	2,307.70	1.50	1.70
6/3/2011	3,269.30	2,309.10	1.70	1.40
6/4/2011	3,270.60	2,310.60	1.30	1.50
6/5/2011	3,272.10	2,311.90	1.50	1.30
6/6/2011	3,273.40	2,313.10	1.30	1.20
6/7/2011	3,273.40	2,315.90	0.00	2.80
6/8/2011	3,274.60	2,317.10	1.20	1.20
6/9/2011	3,276.10	2,318.50	1.50	1.40
6/10/2011	3,277.10	2,319.50	1.00	1.00
6/11/2011	3,278.10	2,320.40	1.00	0.90
6/12/2011	3,279.20	2,321.60	1.10	1.20
6/13/2011	3,280.60	2,322.80	1.40	1.20
6/14/2011	3,281.60	2,323.80	1.00	1.00
6/15/2011	3,282.60	2,324.90	1.00	1.10
6/16/2011	3,283.60	2,325.90	1.00	1.00
6/17/2011	3,284.60	2,326.90	1.00	1.00
6/18/2011	3,285.50	2,327.80	0.90	0.90
6/19/2011	3,286.50	2,328.90	1.00	1.10
6/20/2011	3,287.80	2,330.10	1.30	1.20
6/21/2011	3,288.40	2,330.80	0.60	0.70
6/22/2011	3,289.60	2,331.90	1.20	1.10
6/23/2011	3,290.10	2,332.60	0.50	0.70
6/24/2011	3,291.00	2,333.50	0.90	0.90
6/25/2011	3,291.90	2,334.40	0.90	0.90
6/26/2011	3,292.90	2,335.20	1.00	0.80
6/27/2011	3,293.80	2,336.10	0.90	0.90
6/28/2011	3,295.00	2,337.40	1.20	1.30
6/29/2011	3,295.80	2,338.00	0.80	0.60
6/30/2011	3,296.80	2,339.10	1.00	1.10
7/1/2011	3,297.50	2,339.90	0.70	0.80
7/2/2011	3,298.40	2,340.70	0.90	0.80
7/3/2011	3,299.30	2,341.60	0.90	0.90
7/4/2011	3,300.40	2,342.50	1.10	0.90
7/5/2011	3,301.50	2,343.60	1.10	1.10
7/6/2011	3,302.60	2,344.60	1.10	1.00
7/7/2011	3,303.60	2,345.50	1.00	0.90
7/8/2011	3,304.40	2,346.40	0.80	0.90
7/9/2011	3,305.10	2,347.10	0.70	0.70
7/10/2011	3,306.00	2,348.00	0.90	0.90
7/11/2011	3,307.10	2,348.90	1.10	0.90
7/12/2011	3,308.00	2,349.70	0.90	0.80
7/13/2011	3,309.00	2,350.40	1.00	0.70
7/14/2011	3,309.90	2,351.60	0.90	1.20
7/15/2011	3,311.00	2,352.60	1.10	1.00
7/16/2011	3,312.10	2,353.50	1.10	0.90
7/17/2011	3,313.10	2,354.70	1.00	1.20

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
7/18/2011	3,314.20	2,355.70	1.10	1.00
7/19/2011	3,315.10	2,356.60	0.90	0.90
7/20/2011	3,316.00	2,357.50	0.90	0.90
7/21/2011	3,317.10	2,358.10	1.10	0.60
7/22/2011	3,317.80	2,359.30	0.70	1.20
7/23/2011	3,319.00	2,360.00	1.20	0.70
7/24/2011	3,319.90	2,360.90	0.90	0.90
7/25/2011	3,320.90	2,361.80	1.00	0.90
7/26/2011	3,321.80	2,362.70	0.90	0.90
7/27/2011	3,322.70	2,363.60	0.90	0.90
7/28/2011	3,323.50	2,364.50	0.80	0.90
7/29/2011	3,324.30	2,365.20	0.80	0.70
7/30/2011	3,325.20	2,365.80	0.90	0.60
7/31/2011	3,326.10	2,366.70	0.90	0.90
8/1/2011	3,327.70	2,367.50	1.60	0.80
8/2/2011	3,328.10	2,368.30	0.40	0.80
8/3/2011	3,328.90	2,369.00	0.80	0.70
8/4/2011	3,329.70	2,369.70	0.80	0.70
8/5/2011	3,330.60	2,370.50	0.90	0.80
8/6/2011	3,331.50	2,371.40	0.90	0.90
8/7/2011	3,332.10	2,372.10	0.60	0.70
8/8/2011	3,333.10	2,372.90	1.00	0.80
8/9/2011	3,333.80	2,373.80	0.70	0.90
8/10/2011	3,334.70	2,374.70	0.90	0.90
8/11/2011	3,335.90	2,375.40	1.20	0.70
8/12/2011	3,337.30	2,375.40	1.40	0.00
8/13/2011	3,338.40	2,375.60	1.10	0.20
8/14/2011	3,339.90	2,375.60	1.50	0.00
8/15/2011	3,342.00	2,375.60	2.10	0.00
8/16/2011	3,343.30	2,375.60	1.30	0.00
8/17/2011	3,344.80	2,375.60	1.50	0.00
8/18/2011	3,346.20	2,375.60	1.40	0.00
8/19/2011	3,347.50	2,375.60	1.30	0.00
8/20/2011	3,348.90	2,375.60	1.40	0.00
8/21/2011	3,350.40	2,375.60	1.50	0.00
8/22/2011	3,351.70	2,375.60	1.30	0.00
8/23/2011	3,352.60	2,376.00	0.90	0.40
8/24/2011	3,353.40	2,376.70	0.80	0.70
8/25/2011	3,354.40	2,376.90	1.00	0.20
8/26/2011	3,355.00	2,377.50	0.60	0.60
8/27/2011	3,355.60	2,378.10	0.60	0.60
8/28/2011	3,357.20	2,378.10	1.60	0.00
8/29/2011	3,358.60	2,378.10	1.40	0.00
8/30/2011	3,359.40	2,379.00	0.80	0.90
8/31/2011	3,360.10	2,379.60	0.70	0.60
9/1/2011	3,361.30	2,380.90	1.20	1.30
9/2/2011	3,361.90	2,381.50	0.60	0.60
9/3/2011	3,362.60	2,382.30	0.70	0.80
9/4/2011	3,363.30	2,382.90	0.70	0.60
9/6/2011	3,364.10	2,383.70	0.80	0.80

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
9/7/2011	3,364.80	2,384.30	0.70	0.60
9/8/2011	3,365.40	2,384.90	0.60	0.60
9/9/2011	3,365.90	2,385.70	0.50	0.80
9/10/2011	3,366.50	2,386.20	0.60	0.50
9/11/2011	3,367.20	2,386.80	0.70	0.60
9/12/2011	3,368.00	2,387.70	0.80	0.90
9/13/2011	3,368.70	2,388.30	0.70	0.60
9/14/2011	3,369.30	2,389.10	0.60	0.80
9/15/2011	3,370.00	2,389.80	0.70	0.70
9/16/2011	3,370.80	2,390.03	0.80	0.23
9/17/2011	3,371.40	2,390.80	0.60	0.77
9/18/2011	3,371.90	2,391.60	0.50	0.80
9/19/2011	3,372.60	2,392.20	0.70	0.60
9/20/2011	3,373.20	2,392.70	0.60	0.50
9/21/2011	3,373.80	2,393.30	0.60	0.60
9/22/2011	3,374.30	2,394.10	0.50	0.80
9/23/2011	3,374.90	2,394.60	0.60	0.50
9/24/2011	3,375.50	2,395.10	0.60	0.50
9/25/2011	3,376.10	2,395.80	0.60	0.70
9/26/2011	3,376.90	2,396.50	0.80	0.70
9/27/2011	3,377.40	2,397.20	0.50	0.70
9/28/2011	3,378.00	2,397.80	0.60	0.60
9/29/2011	3,378.50	2,398.40	0.50	0.60
9/30/2011	3,379.10	2,399.00	0.60	0.60
10/1/2011	3,379.50	2,399.40	0.40	0.40
10/2/2011	3,380.10	2,400.00	0.60	0.60
10/3/2011	3,380.80	2,400.50	0.70	0.50
10/4/2011	3,381.40	2,401.10	0.60	0.60
10/5/2011	3,381.90	2,401.70	0.50	0.60
10/6/2011	3,382.50	2,402.20	0.60	0.50
10/7/2011	3,383.00	2,402.80	0.50	0.60
10/8/2011	3,383.50	2,403.00	0.50	0.20
10/9/2011	3,384.20	2,404.10	0.70	1.10
10/10/2011	3,384.80	2,404.60	0.60	0.50
10/11/2011	3,385.40	2,405.20	0.60	0.60
10/12/2011	3,385.80	2,405.70	0.40	0.50
10/13/2011	3,386.40	2,406.30	0.60	0.60
10/14/2011	3,386.90	2,406.70	0.50	0.40
10/15/2011	3,387.30	2,407.20	0.40	0.50
10/16/2011	3,387.90	2,407.90	0.60	0.70
10/17/2011	3,388.60	2,408.40	0.70	0.50
10/18/2011	3,389.00	2,409.00	0.40	0.60
10/19/2011	3,389.60	2,409.50	0.60	0.50
10/20/2011	3,390.30	2,410.10	0.70	0.60
10/21/2011	3,390.80	2,410.70	0.50	0.60
10/22/2011	3,391.10	2,411.10	0.30	0.40
10/23/2011	3,391.70	2,411.60	0.60	0.50
10/24/2011	3,392.50	2,412.40	0.80	0.80
10/25/2011	3,393.00	2,412.80	0.50	0.40
10/26/2011	3,393.40	2,413.40	0.40	0.60

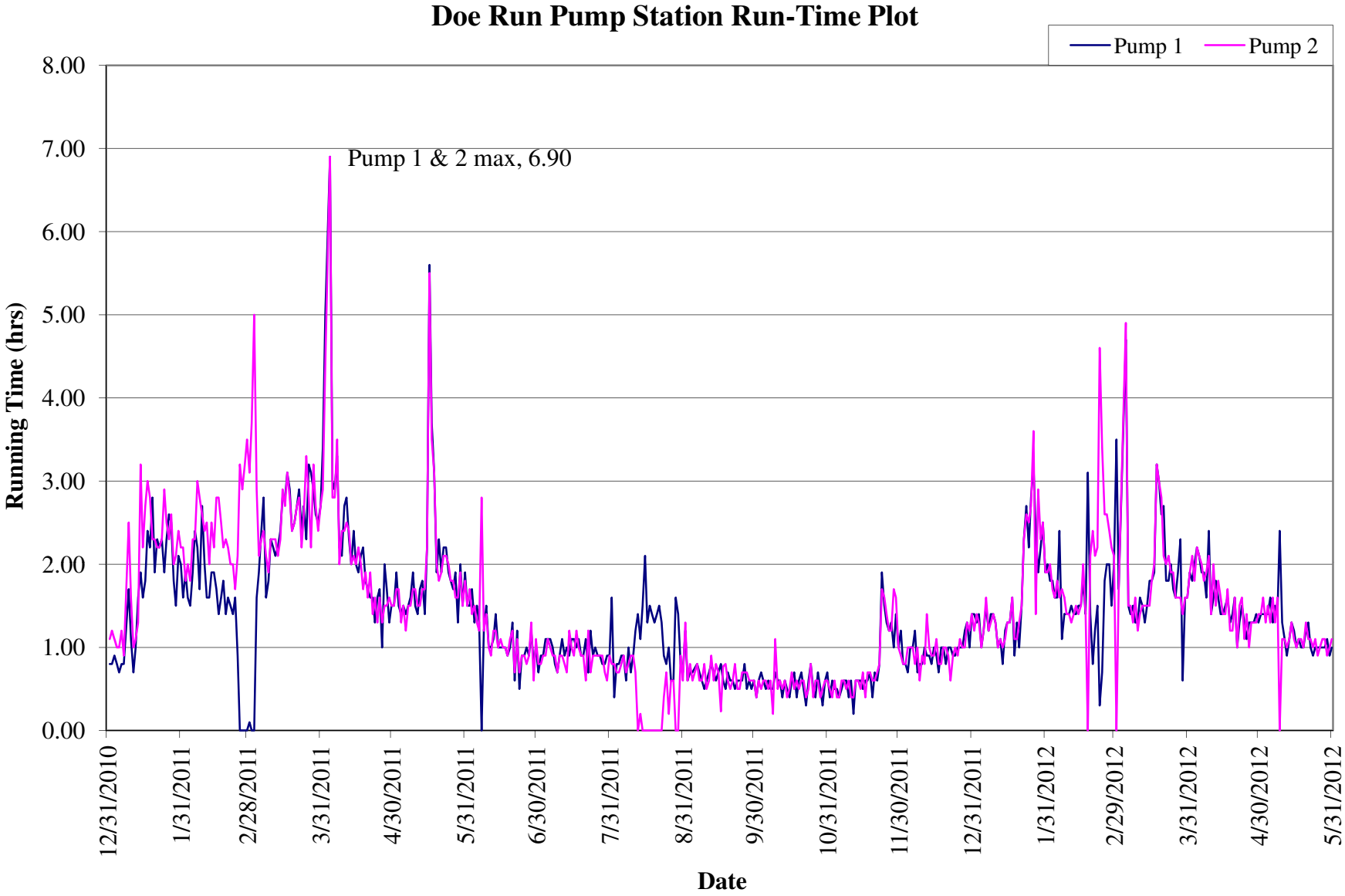
	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
10/27/2011	3,394.10	2,414.00	0.70	0.60
10/28/2011	3,394.60	2,414.40	0.50	0.40
10/29/2011	3,394.90	2,414.90	0.30	0.50
10/30/2011	3,395.50	2,415.50	0.60	0.60
10/31/2011	3,396.20	2,416.10	0.70	0.60
11/1/2011	3,396.60	2,416.60	0.40	0.50
11/2/2011	3,397.20	2,417.00	0.60	0.40
11/3/2011	3,397.70	2,417.60	0.50	0.60
11/4/2011	3,398.20	2,418.00	0.50	0.40
11/5/2011	3,398.60	2,418.40	0.40	0.40
11/6/2011	3,399.10	2,419.00	0.50	0.60
11/7/2011	3,399.70	2,419.60	0.60	0.60
11/8/2011	3,400.30	2,420.10	0.60	0.50
11/9/2011	3,400.70	2,420.70	0.40	0.60
11/10/2011	3,401.30	2,421.10	0.60	0.40
11/11/2011	3,401.50	2,421.50	0.20	0.40
11/12/2011	3,402.10	2,422.10	0.60	0.60
11/13/2011	3,402.70	2,422.70	0.60	0.60
11/14/2011	3,403.30	2,423.20	0.60	0.50
11/15/2011	3,403.80	2,423.90	0.50	0.70
11/16/2011	3,404.40	2,424.30	0.60	0.40
11/17/2011	3,405.00	2,425.00	0.60	0.70
11/18/2011	3,405.70	2,425.70	0.70	0.70
11/19/2011	3,406.10	2,426.30	0.40	0.60
11/20/2011	3,406.80	2,426.90	0.70	0.60
11/21/2011	3,407.40	2,427.60	0.60	0.70
11/22/2011	3,408.20	2,428.40	0.80	0.80
11/23/2011	3,410.10	2,430.10	1.90	1.70
11/24/2011	3,411.60	2,431.70	1.50	1.60
11/25/2011	3,412.90	2,433.10	1.30	1.40
11/26/2011	3,414.10	2,434.30	1.20	1.20
11/27/2011	3,415.40	2,435.50	1.30	1.20
11/28/2011	3,416.40	2,437.20	1.00	1.70
11/29/2011	3,417.80	2,438.80	1.40	1.60
11/30/2011	3,418.80	2,439.80	1.00	1.00
12/1/2011	3,420.00	2,440.70	1.20	0.90
12/2/2011	3,420.80	2,441.50	0.80	0.80
12/3/2011	3,421.60	2,442.30	0.80	0.80
12/4/2011	3,422.30	2,443.30	0.70	1.00
12/5/2011	3,423.30	2,444.30	1.00	1.00
12/6/2011	3,424.30	2,445.30	1.00	1.00
12/7/2011	3,425.50	2,446.10	1.20	0.80
12/8/2011	3,426.20	2,447.10	0.70	1.00
12/9/2011	3,427.00	2,447.70	0.80	0.60
12/10/2011	3,427.80	2,448.60	0.80	0.90
12/11/2011	3,428.80	2,449.40	1.00	0.80
12/12/2011	3,429.70	2,450.80	0.90	1.40
12/13/2011	3,430.60	2,451.80	0.90	1.00
12/14/2011	3,431.40	2,452.70	0.80	0.90
12/15/2011	3,432.40	2,453.60	1.00	0.90

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
12/16/2011	3,433.30	2,454.70	0.90	1.10
12/17/2011	3,434.00	2,455.50	0.70	0.80
12/18/2011	3,435.00	2,456.30	1.00	0.80
12/19/2011	3,436.00	2,457.30	1.00	1.00
12/20/2011	3,436.80	2,458.30	0.80	1.00
12/21/2011	3,437.80	2,459.20	1.00	0.90
12/22/2011	3,438.80	2,459.80	1.00	0.60
12/23/2011	3,439.70	2,460.70	0.90	0.90
12/24/2011	3,440.60	2,461.70	0.90	1.00
12/25/2011	3,441.60	2,462.60	1.00	0.90
12/26/2011	3,442.60	2,463.70	1.00	1.10
12/27/2011	3,443.60	2,464.70	1.00	1.00
12/28/2011	3,444.80	2,465.70	1.20	1.00
12/29/2011	3,446.10	2,467.00	1.30	1.30
12/30/2011	3,447.10	2,468.20	1.00	1.20
12/31/2011	3,448.50	2,469.60	1.40	1.40
1/1/2012	3,449.90	2,470.80	1.40	1.20
1/2/2012	3,451.20	2,472.20	1.30	1.40
1/3/2012	3,452.60	2,473.50	1.40	1.30
1/4/2012	3,453.60	2,474.50	1.00	1.00
1/5/2012	3,454.80	2,475.70	1.20	1.20
1/6/2012	3,456.30	2,477.30	1.50	1.60
1/7/2012	3,457.50	2,478.50	1.20	1.20
1/8/2012	3,458.90	2,479.80	1.40	1.30
1/9/2012	3,460.30	2,481.20	1.40	1.40
1/10/2012	3,461.60	2,482.50	1.30	1.30
1/11/2012	3,462.60	2,483.50	1.00	1.00
1/12/2012	3,463.70	2,484.60	1.10	1.10
1/13/2012	3,464.50	2,485.60	0.80	1.00
1/14/2012	3,465.70	2,486.70	1.20	1.10
1/15/2012	3,467.00	2,488.00	1.30	1.30
1/16/2012	3,468.30	2,489.30	1.30	1.30
1/17/2012	3,469.90	2,490.90	1.60	1.60
1/18/2012	3,470.80	2,492.00	0.90	1.10
1/19/2012	3,472.10	2,493.10	1.30	1.10
1/20/2012	3,473.10	2,494.40	1.00	1.30
1/21/2012	3,474.60	2,495.90	1.50	1.50
1/22/2012	3,476.90	2,498.20	2.30	2.30
1/23/2012	3,479.60	2,500.80	2.70	2.60
1/24/2012	3,481.80	2,503.30	2.20	2.50
1/25/2012	3,484.60	2,506.00	2.80	2.70
1/26/2012	3,487.80	2,509.60	3.20	3.60
1/27/2012	3,490.20	2,511.00	2.40	1.40
1/28/2012	3,492.10	2,513.90	1.90	2.90
1/29/2012	3,494.30	2,516.20	2.20	2.30
1/30/2012	3,496.80	2,518.70	2.50	2.50
1/31/2012	3,498.70	2,520.60	1.90	1.90
2/1/2012	3,500.70	2,522.50	2.00	1.90
2/2/2012	3,502.50	2,524.50	1.80	2.00
2/3/2012	3,504.30	2,526.20	1.80	1.70

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
2/4/2012	3,505.90	2,527.80	1.60	1.60
2/5/2012	3,507.50	2,529.60	1.60	1.80
2/6/2012	3,509.90	2,531.20	2.40	1.60
2/7/2012	3,511.00	2,532.90	1.10	1.70
2/8/2012	3,512.40	2,534.50	1.40	1.60
2/9/2012	3,513.80	2,535.90	1.40	1.40
2/10/2012	3,515.20	2,537.30	1.40	1.40
2/11/2012	3,516.70	2,538.60	1.50	1.30
2/12/2012	3,518.10	2,540.00	1.40	1.40
2/13/2012	3,519.50	2,541.50	1.40	1.50
2/14/2012	3,521.00	2,542.90	1.50	1.40
2/15/2012	3,522.50	2,544.40	1.50	1.50
2/16/2012	3,524.30	2,546.40	1.80	2.00
2/17/2012	3,525.70	2,547.80	1.40	1.40
2/18/2012	3,528.80	2,547.80	3.10	0.00
2/19/2012	3,530.20	2,549.90	1.40	2.10
2/20/2012	3,531.00	2,552.30	0.80	2.40
2/21/2012	3,532.20	2,554.40	1.20	2.10
2/22/2012	3,533.70	2,556.60	1.50	2.20
2/23/2012	3,534.00	2,561.20	0.30	4.60
2/24/2012	3,534.70	2,564.60	0.70	3.40
2/25/2012	3,536.50	2,567.20	1.80	2.60
2/26/2012	3,538.50	2,569.80	2.00	2.60
2/27/2012	3,540.50	2,572.20	2.00	2.40
2/28/2012	3,542.00	2,574.40	1.50	2.20
2/29/2012	3,544.00	2,576.50	2.00	2.10
3/1/2012	3,547.50	2,576.50	3.50	0.00
3/2/2012	3,549.20	2,578.20	1.70	1.70
3/5/2012	3,553.90	2,583.10	4.70	4.90
3/6/2012	3,555.40	2,584.60	1.50	1.50
3/7/2012	3,556.80	2,586.10	1.40	1.50
3/8/2012	3,558.30	2,587.40	1.50	1.30
3/9/2012	3,559.60	2,589.00	1.30	1.60
3/10/2012	3,560.90	2,590.20	1.30	1.20
3/11/2012	3,562.50	2,591.60	1.60	1.40
3/12/2012	3,564.00	2,593.10	1.50	1.50
3/13/2012	3,565.30	2,594.60	1.30	1.50
3/14/2012	3,566.80	2,596.10	1.50	1.50
3/15/2012	3,568.60	2,597.60	1.80	1.50
3/16/2012	3,570.40	2,599.40	1.80	1.80
3/17/2012	3,572.30	2,601.40	1.90	2.00
3/18/2012	3,575.50	2,604.60	3.20	3.20
3/19/2012	3,578.50	2,607.60	3.00	3.00
3/20/2012	3,581.10	2,610.40	2.60	2.80
3/21/2012	3,583.80	2,612.50	2.70	2.10
3/22/2012	3,585.60	2,614.50	1.80	2.00
3/23/2012	3,587.40	2,616.60	1.80	2.10
3/24/2012	3,589.40	2,618.50	2.00	1.90
3/25/2012	3,591.10	2,620.40	1.70	1.90
3/26/2012	3,592.70	2,622.00	1.60	1.60

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
3/27/2012	3,594.60	2,623.60	1.90	1.60
3/28/2012	3,596.90	2,625.20	2.30	1.60
3/29/2012	3,597.50	2,626.60	0.60	1.40
3/30/2012	3,599.10	2,628.20	1.60	1.60
3/31/2012	3,600.70	2,629.80	1.60	1.60
4/1/2012	3,602.60	2,631.70	1.90	1.90
4/2/2012	3,604.40	2,633.80	1.80	2.10
4/3/2012	3,606.40	2,635.60	2.00	1.80
4/4/2012	3,608.60	2,637.80	2.20	2.20
4/5/2012	3,610.70	2,639.90	2.10	2.10
4/6/2012	3,612.60	2,641.90	1.90	2.00
4/7/2012	3,614.50	2,643.70	1.90	1.80
4/8/2012	3,616.10	2,645.60	1.60	1.90
4/9/2012	3,618.50	2,647.70	2.40	2.10
4/10/2012	3,619.90	2,649.10	1.40	1.40
4/11/2012	3,621.50	2,651.10	1.60	2.00
4/12/2012	3,623.30	2,652.60	1.80	1.50
4/13/2012	3,624.90	2,654.40	1.60	1.80
4/14/2012	3,626.30	2,656.00	1.40	1.60
4/15/2012	3,627.70	2,657.40	1.40	1.40
4/16/2012	3,629.20	2,658.80	1.50	1.40
4/17/2012	3,630.80	2,660.50	1.60	1.70
4/18/2012	3,632.10	2,661.70	1.30	1.20
4/19/2012	3,633.50	2,662.90	1.40	1.20
4/20/2012	3,635.10	2,664.50	1.60	1.60
4/21/2012	3,636.10	2,665.50	1.00	1.00
4/22/2012	3,637.40	2,667.00	1.30	1.50
4/23/2012	3,638.90	2,668.60	1.50	1.60
4/24/2012	3,640.20	2,669.70	1.30	1.10
4/25/2012	3,641.30	2,671.10	1.10	1.40
4/26/2012	3,642.60	2,672.10	1.30	1.00
4/27/2012	3,643.90	2,673.40	1.30	1.30
4/28/2012	3,645.20	2,674.70	1.30	1.30
4/29/2012	3,646.60	2,676.00	1.40	1.30
4/30/2012	3,647.90	2,677.40	1.30	1.40
5/1/2012	3,649.30	2,678.80	1.40	1.40
5/2/2012	3,650.70	2,680.40	1.40	1.60
5/3/2012	3,652.10	2,681.70	1.40	1.30
5/4/2012	3,653.50	2,683.20	1.40	1.50
5/5/2012	3,655.10	2,684.50	1.60	1.30
5/6/2012	3,656.40	2,686.10	1.30	1.60
5/7/2012	3,657.90	2,687.40	1.50	1.30
5/8/2012	3,659.30	2,689.00	1.40	1.60
5/9/2012	3,661.70	2,689.00	2.40	0.00
5/10/2012	3,663.00	2,690.10	1.30	1.10
5/11/2012	3,664.10	2,691.20	1.10	1.10
5/12/2012	3,665.00	2,692.20	0.90	1.00
5/13/2012	3,666.10	2,693.30	1.10	1.10
5/14/2012	3,667.40	2,694.60	1.30	1.30
5/15/2012	3,668.60	2,695.70	1.20	1.10

	Pump Reading		Run time (from previous)	
Date	**Pump 1**	**Pump 2**	**Pump 1**	**Pump 2**
5/16/2012	3,669.60	2,696.70	1.00	1.00
5/17/2012	3,670.70	2,697.80	1.10	1.10
5/18/2012	3,671.70	2,698.90	1.00	1.10
5/19/2012	3,672.70	2,699.90	1.00	1.00
5/20/2012	3,673.90	2,701.20	1.20	1.30
5/21/2012	3,675.20	2,702.30	1.30	1.10
5/22/2012	3,676.20	2,703.40	1.00	1.10
5/23/2012	3,677.10	2,704.40	0.90	1.00
5/24/2012	3,678.10	2,705.50	1.00	1.10
5/25/2012	3,679.10	2,706.40	1.00	0.90
5/26/2012	3,680.10	2,707.40	1.00	1.00
5/27/2012	3,681.10	2,708.50	1.00	1.10
5/28/2012	3,682.10	2,709.60	1.00	1.10
5/29/2012	3,683.20	2,710.50	1.10	0.90
5/30/2012	3,684.10	2,711.50	0.90	1.00
5/31/2012	3,685.10	2,712.60	1.00	1.10


Doe Run Pump Station Run-Time Plot
Pump 1
Pump 2
Pump 1 & 2 max, 6.90
Running Time (hrs)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
12/31/2010
1/31/2011
2/28/2011
3/31/2011
4/30/2011
5/31/2011
6/30/2011
7/31/2011
8/31/2011
9/30/2011
10/31/2011
11/30/2011
12/31/2011
1/31/2012
2/29/2012
3/31/2012
4/30/2012
5/31/2012
Date

Jeannie's Meadow Pump Station Data					
	Pump Reading		Run time (from previous)		
Date	Pump 1	Pump 2	Pump 1	Pump 2	
12/31/2010	168.06	171.49			
1/1/2011					**Pump 1 Run Time Max**
1/2/2011					0.78
1/3/2011	168.84	172.08	0.78	0.59	**Pump 2 Run Time Max**
1/4/2011	168.88	172.20	0.04	0.12	0.90
1/5/2011	168.90	172.44	0.02	0.24	**Pump 1 Average Run Time**
1/6/2011	169.23	172.69	0.33	0.25	0.21
1/7/2011	169.47	172.87	0.24	0.18	**Pump 2 Average Run Time**
1/8/2011					0.24
1/9/2011					
1/10/2011	170.00	173.41	0.53	0.54	
1/11/2011	170.18	173.65	0.18	0.24	
1/12/2011	170.42	173.76	0.24	0.11	
1/13/2011	170.53	174.00	0.11	0.24	
1/14/2011	170.65	174.11	0.12	0.11	
1/15/2011	170.88	174.23	0.23	0.12	
1/16/2011					
1/17/2011	171.23	174.58	0.35	0.35	
1/18/2011	171.39	174.82	0.16	0.24	
1/19/2011	171.58	174.94	0.19	0.12	
1/20/2011	171.70	175.27	0.12	0.33	
1/21/2011	171.93	175.50	0.23	0.23	
1/22/2011	172.53	176.10	0.60	0.60	
1/23/2011	172.76	176.34	0.23	0.24	
1/24/2011	173.00	176.45	0.24	0.11	
1/25/2011	173.11	176.69	0.11	0.24	
1/26/2011	173.35	176.81	0.24	0.12	
1/27/2011					
1/28/2011					
1/29/2011					
1/30/2011					
1/31/2011	173.82	177.41	0.47	0.60	
2/1/2011	174.00	177.53	0.18	0.12	
2/2/2011	174.18	177.77	0.18	0.24	
2/3/2011	174.42	178.00	0.24	0.23	
2/4/2011	174.65	178.13	0.23	0.13	
2/5/2011					
2/6/2011	175.00	178.48	0.35	0.35	
2/7/2011	175.24	178.72	0.24	0.24	
2/8/2011	175.35	178.87	0.11	0.15	
2/9/2011	175.47	179.08	0.12	0.21	

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
2/10/2011	175.71	179.20	0.24	0.12
2/11/2011	175.95	179.47	0.24	0.27
2/12/2011				
2/13/2011				
2/14/2011	176.42	180.04	0.47	0.57
2/15/2011	176.66	180.15	0.24	0.11
2/16/2011	176.89	180.41	0.23	0.26
2/17/2011	177.02	180.63	0.13	0.22
2/18/2011	177.25	180.72	0.23	0.09
2/19/2011				
2/20/2011				
2/21/2011				
2/22/2011	178.01	181.62	0.76	0.90
2/23/2011	178.22	181.73	0.21	0.11
2/24/2011	178.46	181.97	0.24	0.24
2/25/2011	178.50	182.21	0.04	0.24
2/26/2011	178.82	182.33	0.32	0.12
2/27/2011				
2/28/2011	179.18	182.82	0.36	0.49
3/1/2011	179.42	182.94	0.24	0.12
3/2/2011	179.54	183.18	0.12	0.24
3/3/2011	179.77	183.30	0.23	0.12
3/4/2011	180.01	183.54	0.24	0.24
3/5/2011				
3/6/2011				
3/7/2011	180.61	184.15	0.60	0.61
3/8/2011	180.73	184.40	0.12	0.25
3/9/2011	180.97	184.52	0.24	0.12
3/10/2011	181.21	184.75	0.24	0.23
3/11/2011	181.33	185.00	0.12	0.25
3/12/2011	181.93	185.50	0.60	0.50
3/13/2011				
3/14/2011				
3/15/2011	182.05	185.74	0.12	0.24
3/16/2011	182.29	185.86	0.24	0.12
3/17/2011	182.41	186.02	0.12	0.16
3/18/2011	182.66	186.71	0.25	0.69
3/19/2011				
3/20/2011	183.02	187.10	0.36	0.39
3/21/2011	183.26	187.34	0.24	0.24
3/22/2011	183.38	187.58	0.12	0.24

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
3/23/2011	183.62	187.70	0.24	0.12
3/24/2011	183.74	187.95	0.12	0.25
3/25/2011	183.98	188.07	0.24	0.12
3/26/2011				
3/27/2011				
3/28/2011	184.45	188.68	0.47	0.61
3/29/2011	184.69	188.92	0.24	0.24
3/30/2011	184.81	189.04	0.12	0.12
3/31/2011				
4/1/2011	185.17	189.40	0.36	0.36
4/2/2011	185.29	189.52	0.12	0.12
4/3/2011				
4/4/2011	185.77	189.89	0.48	0.37
4/5/2011	185.89	190.14	0.12	0.25
4/6/2011	186.01	190.27	0.12	0.13
4/7/2011	186.25	190.53	0.24	0.26
4/8/2011	186.37	190.63	0.12	0.10
4/9/2011	186.60	190.75	0.23	0.12
4/10/2011				
4/11/2011	186.90	191.12	0.30	0.37
4/12/2011	187.09	191.37	0.19	0.25
4/13/2011	187.32	191.49	0.23	0.12
4/14/2011	187.45	191.73	0.13	0.24
4/15/2011				
4/16/2011	187.60	192.10	0.15	0.37
4/17/2011	188.28	192.47	0.68	0.37
4/18/2011				
4/19/2011	188.51	192.70	0.23	0.23
4/20/2011	188.63	192.94	0.12	0.24
4/21/2011	188.87	193.06	0.24	0.12
4/22/2011	188.99	193.30	0.12	0.24
4/23/2011	189.22	193.54	0.23	0.24
4/24/2011	189.55	193.91	0.33	0.37
4/25/2011	189.81	194.02	0.26	0.11
4/26/2011	189.92	194.26	0.11	0.24
4/27/2011	190.15	194.38	0.23	0.12
4/28/2011	190.27	194.62	0.12	0.24
4/29/2011				
4/30/2011	190.50	194.73	0.23	0.11
5/1/2011	190.86	195.20	0.36	0.47
5/2/2011				

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
5/3/2011	191.09	195.32	0.23	0.12
5/4/2011	191.21	195.55	0.12	0.23
5/5/2011	191.44	195.67	0.23	0.12
5/6/2011	191.55	195.90	0.11	0.23
5/7/2011				
5/8/2011	191.90	196.25	0.35	0.35
5/9/2011	192.13	196.49	0.23	0.24
5/10/2011	192.37	196.60	0.24	0.11
5/11/2011	192.48	196.84	0.11	0.24
5/12/2011	192.60	196.96	0.12	0.12
5/13/2011	192.84	197.20	0.24	0.24
5/14/2011				
5/15/2011	193.19	197.56	0.35	0.36
5/16/2011	193.42	197.67	0.23	0.11
5/17/2011	193.66	197.92	0.24	0.25
5/18/2011	193.78	198.03	0.12	0.11
5/19/2011	193.89	198.27	0.11	0.24
5/20/2011	194.13	198.39	0.24	0.12
5/21/2011	194.24	198.62	0.11	0.23
5/22/2011				
5/23/2011	194.70	198.98	0.46	0.36
5/24/2011	194.82	199.22	0.12	0.24
5/25/2011	195.05	199.34	0.23	0.12
5/26/2011	195.17	199.57	0.12	0.23
5/27/2011	195.28	199.69	0.11	0.12
5/28/2011	195.52	199.80	0.24	0.11
5/29/2011				
5/30/2011	195.86	200.27	0.34	0.47
5/31/2011	196.10	200.50	0.24	0.23
6/1/2011	196.33	200.62	0.23	0.12
6/2/2011	196.46	200.86	0.13	0.24
6/3/2011	196.63	200.95	0.17	0.09
6/4/2011				
6/5/2011				
6/6/2011	197.13		0.50	
6/7/2011	197.48		0.35	
6/8/2011	197.59		0.11	
6/9/2011	197.82		0.23	
6/10/2011	197.93		0.11	
6/11/2011				
6/12/2011	198.38	202.73	0.45	0.20

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
6/13/2011	198.52	202.97	0.14	0.24
6/14/2011	198.73	203.20	0.21	0.23
6/15/2011	198.86	203.42	0.13	0.22
6/16/2011	199.10	203.56	0.24	0.14
6/17/2011	199.30	203.79	0.20	0.23
6/18/2011	199.52	203.90	0.22	0.11
6/19/2011				
6/20/2011	199.98	204.37	0.46	0.47
6/21/2011	200.09	204.60	0.11	0.23
6/22/2011	200.43	204.84	0.34	0.24
6/23/2011	200.55	204.96	0.12	0.12
6/24/2011	200.66	205.19	0.11	0.23
6/25/2011				
6/26/2011	200.99	205.53	0.33	0.34
6/27/2011	201.22	205.77	0.23	0.24
6/28/2011	201.45	205.89	0.23	0.12
6/29/2011	201.68	206.12	0.23	0.23
6/30/2011	201.90	206.86	0.22	0.74
7/1/2011	202.01	207.09	0.11	0.23
7/2/2011				
7/3/2011	202.35	207.43	0.34	0.34
7/4/2011	202.57	207.66	0.22	0.23
7/5/2011	202.69	207.80	0.12	0.14
7/6/2011	202.69	208.00	0.00	0.20
7/7/2011	202.69	208.30	0.00	0.30
7/8/2011	202.69	208.75	0.00	0.45
7/9/2011	202.69	209.08	0.00	0.33
7/10/2011				
7/11/2011	202.69	209.92	0.00	0.84
7/12/2011	202.69	210.14	0.00	0.22
7/13/2011	202.69	210.25	0.00	0.11
7/14/2011	202.69	210.37	0.00	0.12
7/15/2011	202.69	210.62	0.00	0.25
7/16/2011	202.69	210.87	0.00	0.25
7/17/2011	202.69	211.00	0.00	0.13
7/18/2011	202.69	211.25	0.00	0.25
7/19/2011	202.69	211.38	0.00	0.13
7/20/2011	202.69	211.63	0.00	0.25
7/21/2011	202.69	211.76	0.00	0.13
7/22/2011	202.69	211.88	0.00	0.12
7/23/2011	202.69	212.12	0.00	0.24

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
7/24/2011				
7/25/2011	202.69	212.50	0.00	0.38
7/26/2011	202.69	212.62	0.00	0.12
7/27/2011	202.69	212.80	0.00	0.18
7/28/2011	202.69	213.00	0.00	0.20
7/29/2011	202.69	213.26	0.00	0.26
7/30/2011	202.69	213.38	0.00	0.12
7/31/2011				
8/1/2011	202.69	213.76	0.00	0.38
8/2/2011	202.69	213.88	0.00	0.12
8/3/2011	202.69	214.13	0.00	0.25
8/4/2011	202.69	214.25	0.00	0.12
8/5/2011	202.69	214.50	0.00	0.25
8/6/2011	202.69	214.62	0.00	0.12
8/7/2011				
8/8/2011	0.00	215.00	0.00	0.38
8/9/2011	0.22	215.25	0.22	0.25
8/10/2011	0.46	215.38	0.24	0.13
8/11/2011	0.59	215.62	0.13	0.24
8/12/2011	0.83	215.76	0.24	0.14
8/13/2011				
8/14/2011	1.21	216.14	0.38	0.38
8/15/2011	1.48	216.40	0.27	0.26
8/16/2011	1.58	216.65	0.10	0.25
8/17/2011	1.83	216.77	0.25	0.12
8/18/2011	1.95	217.05	0.12	0.28
8/19/2011	2.07	217.15	0.12	0.10
8/20/2011	2.32	217.22	0.25	0.07
8/21/2011	2.70	217.65	0.38	0.43
8/22/2011				
8/23/2011	2.82	217.90	0.12	0.25
8/24/2011	3.06	218.07	0.24	0.17
8/25/2011	3.18	218.14	0.12	0.07
8/26/2011	3.42	218.39	0.24	0.25
8/27/2011	3.66	218.75	0.24	0.36
8/28/2011				
8/29/2011	3.91	218.99	0.25	0.24
8/30/2011	4.14	219.11	0.23	0.12
8/31/2011	4.26	219.36	0.12	0.25
9/1/2011	4.51	219.48	0.25	0.12
9/2/2011	4.62	219.73	0.11	0.25

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
9/3/2011	4.87	219.85	0.25	0.12
9/4/2011				
9/5/2011	5.23	220.31	0.36	0.46
9/6/2011	5.47	220.60	0.24	0.29
9/7/2011	5.72	220.73	0.25	0.13
9/8/2011	5.80	220.98	0.08	0.25
9/9/2011	6.09	221.10	0.29	0.12
9/10/2011	6.21	221.27	0.12	0.17
9/11/2011	6.57	221.59	0.36	0.32
9/12/2011	6.69	221.83	0.12	0.24
9/13/2011	6.93	221.96	0.24	0.13
9/14/2011	7.05	222.46	0.12	0.50
9/15/2011	7.30	222.58	0.25	0.12
9/16/2011				
9/17/2011				
9/18/2011	7.67	223.08	0.37	0.50
9/19/2011	8.03	223.33	0.36	0.25
9/20/2011	8.15	223.45	0.12	0.12
9/21/2011	8.27	223.70	0.12	0.25
9/22/2011	8.39	223.82	0.12	0.12
9/23/2011	8.63	224.07	0.24	0.25
9/24/2011				
9/25/2011	9.00	224.32	0.37	0.25
9/26/2011	9.12	224.57	0.12	0.25
9/27/2011	9.36	224.70	0.24	0.13
9/28/2011	9.61	224.95	0.25	0.25
9/29/2011	9.73	225.20	0.12	0.25
9/30/2011	9.86	225.32	0.13	0.12
10/1/2011				
10/2/2011	10.22	225.57	0.36	0.25
10/3/2011	10.47	225.82	0.25	0.25
10/4/2011	10.72	226.07	0.25	0.25
10/5/2011	10.84	226.20	0.12	0.13
10/6/2011	10.96	226.44	0.12	0.24
10/7/2011	11.21	226.56	0.25	0.12
10/8/2011	11.33	226.68	0.12	0.12
10/9/2011	11.45	226.93	0.12	0.25
10/10/2011	11.60	227.18	0.15	0.25
10/11/2011	11.94	227.64	0.34	0.46
10/12/2011	12.21	227.70	0.27	0.06
10/13/2011	12.46	227.87	0.25	0.17

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
10/14/2011	12.58	227.95	0.12	0.08
10/15/2011				
10/16/2011	12.96	228.32	0.38	0.37
10/17/2011	13.20	228.57	0.24	0.25
10/18/2011	13.32	228.82	0.12	0.25
10/19/2011	13.57	229.07	0.25	0.25
10/20/2011	13.82	229.20	0.25	0.13
10/21/2011	13.94	229.45	0.12	0.25
10/22/2011	14.18	229.57	0.24	0.12
10/23/2011				
10/24/2011	14.51	229.94	0.33	0.37
10/25/2011	14.67	230.19	0.16	0.25
10/26/2011	14.92	230.31	0.25	0.12
10/27/2011	15.04	230.56	0.12	0.25
10/28/2011	15.28	230.60	0.24	0.04
10/29/2011	15.41	230.93	0.13	0.33
10/30/2011	15.65	231.06	0.24	0.13
10/31/2011	15.77	231.13	0.12	0.07
11/1/2011	15.90	231.44	0.13	0.31
11/2/2011	16.14	231.56	0.24	0.12
11/3/2011	16.27	231.83	0.13	0.27
11/4/2011	16.52	231.93	0.25	0.10
11/5/2011				
11/6/2011	16.76	232.32	0.24	0.39
11/7/2011	17.01	232.57	0.25	0.25
11/8/2011	17.26	232.69	0.25	0.12
11/9/2011	17.36	232.94	0.10	0.25
11/10/2011	17.63	233.07	0.27	0.13
11/11/2011				
11/12/2011	17.88	233.45	0.25	0.38
11/13/2011	18.37	233.63	0.49	0.18
11/14/2011	18.50	234.00	0.13	0.37
11/15/2011	18.75	234.21	0.25	0.21
11/16/2011	19.00	234.47	0.25	0.26
11/17/2011	19.12	234.73	0.12	0.26
11/18/2011				
11/19/2011				
11/20/2011	19.49	235.10	0.37	0.37
11/21/2011	19.75	235.23	0.26	0.13
11/22/2011	19.87	235.48	0.12	0.25
11/23/2011	20.12	235.60	0.25	0.12

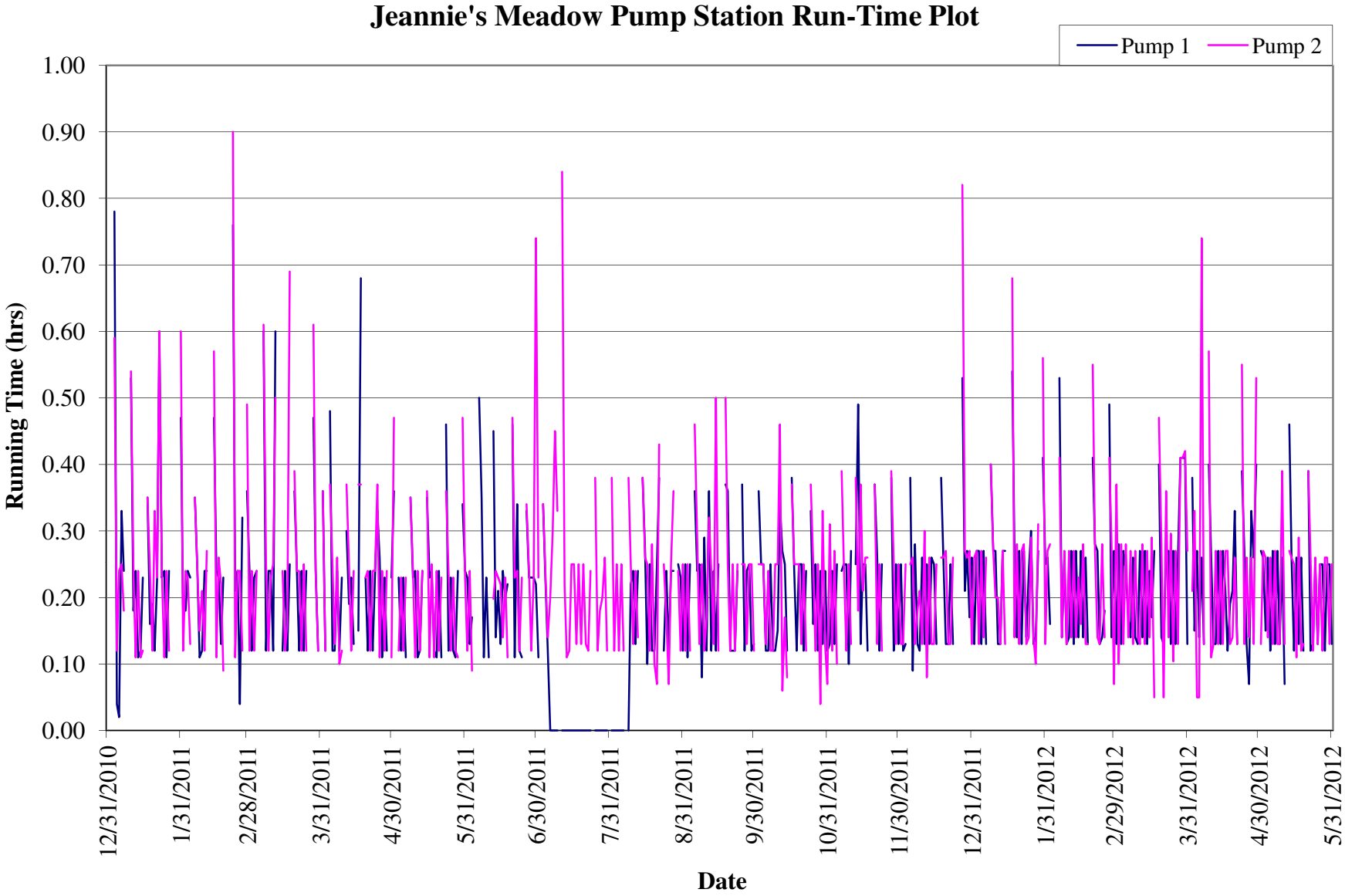
Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
11/24/2011				
11/25/2011	20.49	235.98	0.37	0.38
11/26/2011				
11/27/2011	20.87	236.37	0.38	0.39
11/28/2011	20.99	236.62	0.12	0.25
11/29/2011	21.24	236.75	0.25	0.13
11/30/2011	21.37	237.00	0.13	0.25
12/1/2011	21.62	237.13	0.25	0.13
12/2/2011	21.74	237.26	0.12	0.13
12/3/2011	21.87	237.51	0.13	0.25
12/4/2011				
12/5/2011	22.25	237.76	0.38	0.25
12/6/2011	22.34	238.02	0.09	0.26
12/7/2011	22.62	238.15	0.28	0.13
12/8/2011	22.75	238.33	0.13	0.18
12/9/2011	22.87	238.54	0.12	0.21
12/10/2011	23.13	238.67	0.26	0.13
12/11/2011	23.26	238.97	0.13	0.30
12/12/2011	23.51	239.05	0.25	0.08
12/13/2011	23.64	239.31	0.13	0.26
12/14/2011	23.90	239.44	0.26	0.13
12/15/2011	24.15	239.57	0.25	0.13
12/16/2011	24.28	239.82	0.13	0.25
12/17/2011				
12/18/2011	24.66	240.08	0.38	0.26
12/19/2011	24.92	240.34	0.26	0.26
12/20/2011	25.05	240.61	0.13	0.27
12/21/2011	25.18	240.74	0.13	0.13
12/22/2011	25.43	240.87	0.25	0.13
12/23/2011	25.56	241.13	0.13	0.26
12/24/2011				
12/25/2011	26.08	241.22	0.52	0.09
12/26/2011				
12/27/2011	26.61	242.04	0.53	0.82
12/28/2011	26.82	242.31	0.21	0.27
12/29/2011	27.09	242.57	0.27	0.26
12/30/2011	27.26	242.84	0.17	0.27
12/31/2011	27.52	242.97	0.26	0.13
1/1/2012	27.65	243.23	0.13	0.26
1/2/2012	27.92	243.50	0.27	0.27
1/3/2012	28.19	243.63	0.27	0.13

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
1/4/2012	28.32	243.90	0.13	0.27
1/5/2012	28.59	244.04	0.27	0.14
1/6/2012	28.72	244.30	0.13	0.26
1/7/2012				
1/8/2012	29.12	244.70	0.40	0.40
1/9/2012	29.39	244.97	0.27	0.27
1/10/2012	29.66	245.17	0.27	0.20
1/11/2012	29.79	245.37	0.13	0.20
1/12/2012	29.92	245.50	0.13	0.13
1/13/2012	30.19	245.77	0.27	0.27
1/14/2012	30.46	245.90	0.27	0.13
1/15/2012				
1/16/2012				
1/17/2012	31.00	246.58	0.54	0.68
1/18/2012	31.27	246.72	0.27	0.14
1/19/2012	31.41	247.00	0.14	0.28
1/20/2012	31.68	247.13	0.27	0.13
1/21/2012	31.81	247.40	0.13	0.27
1/22/2012	32.08	247.68	0.27	0.28
1/23/2012	32.22	247.81	0.14	0.13
1/24/2012	32.46	247.95	0.24	0.14
1/25/2012	32.76	248.24	0.30	0.29
1/26/2012	32.89	248.38	0.13	0.14
1/27/2012	33.03	248.48	0.14	0.10
1/28/2012	33.30	248.79	0.27	0.31
1/29/2012				
1/30/2012	33.71	249.35	0.41	0.56
1/31/2012	33.96	249.48	0.25	0.13
2/1/2012	34.22	249.75	0.26	0.27
2/2/2012	34.38	250.03	0.16	0.28
2/3/2012				
2/4/2012	34.78	250.43	0.40	0.40
2/5/2012				
2/6/2012	35.31	250.84	0.53	0.41
2/7/2012	35.45	250.98	0.14	0.14
2/8/2012	35.71	251.25	0.26	0.27
2/9/2012	35.84	251.38	0.13	0.13
2/10/2012	35.98	251.65	0.14	0.27
2/11/2012	36.25	251.79	0.27	0.14
2/12/2012	36.38	252.06	0.13	0.27
2/13/2012	36.65	252.20	0.27	0.14

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
2/14/2012	36.79	252.43	0.14	0.23
2/15/2012	37.06	252.59	0.27	0.16
2/16/2012	37.20	252.87	0.14	0.28
2/17/2012	37.46	253.00	0.26	0.13
2/18/2012	37.59	253.13	0.13	0.13
2/19/2012				
2/20/2012	38.00	253.68	0.41	0.55
2/21/2012	38.28	253.95	0.28	0.27
2/22/2012	38.55	254.09	0.27	0.14
2/23/2012	38.68	254.22	0.13	0.13
2/24/2012	38.82	254.50	0.14	0.28
2/25/2012	39.00	254.64	0.18	0.14
2/26/2012				
2/27/2012	39.49	255.05	0.49	0.41
2/28/2012	39.63	255.33	0.14	0.28
2/29/2012	39.90	255.40	0.27	0.07
3/1/2012	40.03	255.77	0.13	0.37
3/2/2012	40.31	255.87	0.28	0.10
3/3/2012	40.44	256.15	0.13	0.28
3/4/2012	40.71	256.28	0.27	0.13
3/5/2012	40.95	256.56	0.24	0.28
3/6/2012	41.12	256.70	0.17	0.14
3/7/2012	41.26	256.97	0.14	0.27
3/8/2012	41.52	257.10	0.26	0.13
3/9/2012	41.66	257.37	0.14	0.27
3/10/2012	41.79	257.51	0.13	0.14
3/11/2012	42.06	257.64	0.27	0.13
3/12/2012	42.20	257.92	0.14	0.28
3/13/2012	42.47	258.05	0.27	0.13
3/14/2012	42.60	258.32	0.13	0.27
3/15/2012	42.84	258.46	0.24	0.14
3/16/2012	43.01	258.75	0.17	0.29
3/17/2012	43.28	258.80	0.27	0.05
3/18/2012				
3/19/2012	43.68	259.27	0.40	0.47
3/20/2012	43.82	259.55	0.14	0.28
3/21/2012	43.95	259.60	0.13	0.05
3/22/2012	44.22	259.96	0.27	0.36
3/23/2012	44.49	260.10	0.27	0.14
3/24/2012	44.62	260.40	0.13	0.30
3/25/2012	44.89	260.50	0.27	0.10

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
3/26/2012	45.02	260.77	0.13	0.27
3/27/2012	45.28	260.90	0.26	0.13
3/28/2012	45.69	261.31	0.41	0.41
3/29/2012	46.10	261.72	0.41	0.41
3/30/2012	46.51	262.14	0.41	0.42
3/31/2012	46.64	262.41	0.13	0.27
4/1/2012				
4/2/2012	47.02	262.62	0.38	0.21
4/3/2012	47.17	262.95	0.15	0.33
4/4/2012	47.44	263.00	0.27	0.05
4/5/2012	47.58	263.05	0.14	0.05
4/6/2012	47.84	263.79	0.26	0.74
4/7/2012	47.97	263.92	0.13	0.13
4/8/2012				
4/9/2012	48.37	264.49	0.40	0.57
4/10/2012	48.64	264.60	0.27	0.11
4/11/2012	48.77	264.73	0.13	0.13
4/12/2012	48.90	265.00	0.13	0.27
4/13/2012	49.17	265.13	0.27	0.13
4/14/2012	49.30	265.40	0.13	0.27
4/15/2012	49.57	265.53	0.27	0.13
4/16/2012	49.78	265.80	0.21	0.27
4/17/2012	49.90	266.07	0.12	0.27
4/18/2012	50.09	266.20	0.19	0.13
4/19/2012	50.30	266.34	0.21	0.14
4/20/2012	50.63	266.60	0.33	0.26
4/21/2012	50.76	266.73	0.13	0.13
4/22/2012				
4/23/2012	51.15	267.28	0.39	0.55
4/24/2012	51.42	267.41	0.27	0.13
4/25/2012	51.55	267.67	0.13	0.26
4/26/2012	51.62	267.81	0.07	0.14
4/27/2012	51.95	268.07	0.33	0.26
4/28/2012	52.21	268.20	0.26	0.13
4/29/2012	52.61	268.73	0.40	0.53
4/30/2012				
5/1/2012	52.88	268.86	0.27	0.13
5/2/2012	53.14	269.13	0.26	0.27
5/3/2012	53.29	269.39	0.15	0.26
5/4/2012	53.55	269.53	0.26	0.14
5/5/2012	53.67	269.79	0.12	0.26

Jeannie's Meadow Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
5/6/2012	53.94	269.92	0.27	0.13
5/7/2012	54.07	270.19	0.13	0.27
5/8/2012	54.34	270.32	0.27	0.13
5/9/2012	54.47	270.45	0.13	0.13
5/10/2012	54.73	270.84	0.26	0.39
5/11/2012	54.80	270.97	0.07	0.13
5/12/2012				
5/13/2012	55.26	271.24	0.46	0.27
5/14/2012	55.52	271.50	0.26	0.26
5/15/2012	55.64	271.75	0.12	0.25
5/16/2012	55.90	271.86	0.26	0.11
5/17/2012	56.03	272.15	0.13	0.29
5/18/2012	56.29	272.27	0.26	0.12
5/19/2012	56.41	272.40	0.12	0.13
5/20/2012				
5/21/2012	56.80	272.79	0.39	0.39
5/22/2012	56.92	273.05	0.12	0.26
5/23/2012	57.05	273.17	0.13	0.12
5/24/2012	57.30	273.43	0.25	0.26
5/25/2012	57.43	273.56	0.13	0.13
5/26/2012	57.68	273.81	0.25	0.25
5/27/2012	57.93	273.93	0.25	0.12
5/28/2012	58.05	274.19	0.12	0.26
5/29/2012	58.30	274.45	0.25	0.26
5/30/2012	58.55	274.58	0.25	0.13
5/31/2012	58.68	274.83	0.13	0.25


Jeannie's Meadow Pump Station Run-Time Plot
Pump 1
Pump 2
Running Time (hrs)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
12/31/2010
1/31/2011
2/28/2011
3/31/2011
4/30/2011
5/31/2011
6/30/2011
7/31/2011
8/31/2011
9/30/2011
10/31/2011
11/30/2011
12/31/2011
1/31/2012
2/29/2012
3/31/2012
4/30/2012
5/31/2012
Date

Port Williams Pump Station Data					
	Pump Reading		Run time (from previous)		
Date	Pump 1	Pump 2	Pump 1	Pump 2	
12/31/2010	24,015.90	23,783.50			
1/1/2011	24,017.40	23,785.00	1.50	1.50	**Pump 1 Run Time Max**
1/2/2011	24,018.70	23,786.00	1.30	1.00	5.60
1/3/2011	24,020.30	23,788.00	1.60	2.00	**Pump 2 Run Time Max**
1/4/2011	24,021.90	23,789.60	1.60	1.60	3.50
1/5/2011	24,023.60	23,791.40	1.70	1.80	**Pump 1 Average Run Time**
1/6/2011	24,025.50	23,793.40	1.90	2.00	1.60
1/7/2011	24,027.20	23,795.20	1.70	1.80	**Pump 2 Average Run Time**
1/8/2011	24,028.80	23,796.80	1.60	1.60	1.63
1/9/2011	24,030.20	23,798.30	1.40	1.50	
1/10/2011	24,031.70	23,799.80	1.50	1.50	
1/11/2011	24,033.30	23,801.60	1.60	1.80	
1/12/2011	24,035.00	23,803.40	1.70	1.80	
1/13/2011	24,036.80	23,805.20	1.80	1.80	
1/14/2011	24,038.50	23,806.90	1.70	1.70	
1/15/2011	24,040.00	23,808.60	1.50	1.70	
1/16/2011	24,041.50	23,810.20	1.50	1.60	
1/17/2011	24,042.90	23,811.60	1.40	1.40	
1/18/2011	24,044.60	23,813.40	1.70	1.80	
1/19/2011	24,046.30	23,815.20	1.70	1.80	
1/20/2011	24,048.10	23,817.00	1.80	1.80	
1/21/2011	24,049.90	23,818.90	1.80	1.90	
1/22/2011	24,051.60	23,820.60	1.70	1.70	
1/23/2011	24,053.00	23,822.10	1.40	1.50	
1/24/2011	24,054.50	23,823.60	1.50	1.50	
1/25/2011	24,056.20	23,825.40	1.70	1.80	
1/26/2011	24,058.10	23,827.20	1.90	1.80	
1/27/2011	24,059.90	23,829.20	1.80	2.00	
1/28/2011	24,061.70	23,831.10	1.80	1.90	
1/29/2011	24,063.20	23,832.60	1.50	1.50	
1/30/2011	24,064.60	23,834.10	1.40	1.50	
1/31/2011	24,066.10	23,835.60	1.50	1.50	
2/1/2011	24,067.70	23,837.30	1.60	1.70	
2/2/2011	24,069.40	23,839.10	1.70	1.80	
2/3/2011	24,071.30	23,841.10	1.90	2.00	
2/4/2011	24,072.90	23,842.80	1.60	1.70	
2/5/2011	24,074.40	23,844.40	1.50	1.60	
2/6/2011	24,075.80	23,845.80	1.40	1.40	
2/7/2011	24,077.20	23,847.40	1.40	1.60	
2/8/2011	24,078.90	23,849.10	1.70	1.70	
2/9/2011	24,080.60	23,850.90	1.70	1.80	
2/10/2011	24,082.30	23,852.70	1.70	1.80	
2/11/2011	24,084.00	23,854.50	1.70	1.80	
2/12/2011	24,085.60	23,856.10	1.60	1.60	
2/13/2011	24,087.00	23,857.50	1.40	1.40	
2/14/2011	24,088.50	23,859.10	1.50	1.60	
2/15/2011	24,090.10	23,860.80	1.60	1.70	

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
2/16/2011	24,091.70	23,862.50	1.60	1.70
2/17/2011	24,093.50	23,864.30	1.80	1.80
2/18/2011	24,095.20	23,866.10	1.70	1.80
2/19/2011	24,096.70	23,867.70	1.50	1.60
2/20/2011	24,098.10	23,869.00	1.40	1.30
2/21/2011	24,099.60	23,870.50	1.50	1.50
2/22/2011	24,101.10	23,872.10	1.50	1.60
2/23/2011	24,102.80	23,873.80	1.70	1.70
2/24/2011	24,104.40	23,875.50	1.60	1.70
2/25/2011	24,105.80	23,876.90	1.40	1.40
2/26/2011	24,107.20	23,878.20	1.40	1.30
2/27/2011	24,108.60	23,879.70	1.40	1.50
2/28/2011	24,109.90	23,881.10	1.30	1.40
3/1/2011	24,111.80	23,883.00	1.90	1.90
3/2/2011	24,113.40	23,884.60	1.60	1.60
3/3/2011	24,115.10	23,886.40	1.70	1.80
3/4/2011	24,116.90	23,888.40	1.80	2.00
3/5/2011	24,118.50	23,890.00	1.60	1.60
3/6/2011	24,119.90	23,891.40	1.40	1.40
3/7/2011	24,121.20	23,892.70	1.30	1.30
3/8/2011	24,122.90	23,894.50	1.70	1.80
3/9/2011	24,124.60	23,896.30	1.70	1.80
3/10/2011	24,126.40	23,898.10	1.80	1.80
3/11/2011	24,128.10	23,899.90	1.70	1.80
3/12/2011	24,129.60	23,901.40	1.50	1.50
3/13/2011	24,130.80	23,902.80	1.20	1.40
3/14/2011	24,132.20	23,904.10	1.40	1.30
3/15/2011	24,133.80	23,905.80	1.60	1.70
3/16/2011	24,135.50	23,907.60	1.70	1.80
3/17/2011	24,137.20	23,909.30	1.70	1.70
3/18/2011	24,138.80	23,911.00	1.60	1.70
3/19/2011	24,140.30	23,912.60	1.50	1.60
3/20/2011	24,141.70	23,914.00	1.40	1.40
3/21/2011	24,143.20	23,915.50	1.50	1.50
3/22/2011	24,144.80	23,917.20	1.60	1.70
3/23/2011	24,146.50	23,919.00	1.70	1.80
3/24/2011	24,148.30	23,920.90	1.80	1.90
3/25/2011	24,149.90	23,922.50	1.60	1.60
3/26/2011	24,151.50	23,924.20	1.60	1.70
3/27/2011	24,152.70	23,925.50	1.20	1.30
3/28/2011	24,154.20	23,927.00	1.50	1.50
3/29/2011	24,155.80	23,928.60	1.60	1.60
3/30/2011	24,157.30	23,930.20	1.50	1.60
3/31/2011	24,158.70	23,931.80	1.40	1.60
4/1/2011	24,160.60	23,933.50	1.90	1.70
4/2/2011	24,162.10	23,935.10	1.50	1.60
4/3/2011	24,163.30	23,936.50	1.20	1.40
4/4/2011	24,164.60	23,937.80	1.30	1.30

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
4/5/2011	24,166.40	23,939.60	1.80	1.80
4/6/2011	24,168.22	23,941.40	1.82	1.80
4/7/2011	24,169.80	23,943.10	1.58	1.70
4/8/2011	24,171.80	23,945.10	2.00	2.00
4/9/2011	24,173.40	23,946.70	1.60	1.60
4/10/2011	24,174.90	23,948.30	1.50	1.60
4/11/2011	24,176.50	23,949.90	1.60	1.60
4/12/2011	24,178.10	23,951.80	1.60	1.90
4/13/2011	24,179.90	23,953.50	1.80	1.70
4/14/2011	24,181.60	23,955.40	1.70	1.90
4/15/2011	24,183.50	23,957.20	1.90	1.80
4/16/2011	24,185.20	23,959.00	1.70	1.80
4/17/2011	24,186.70	23,960.50	1.50	1.50
4/18/2011	24,188.20	23,962.10	1.50	1.60
4/19/2011	24,189.80	23,963.80	1.60	1.70
4/20/2011	24,191.70	23,965.70	1.90	1.90
4/21/2011	24,193.40	23,967.40	1.70	1.70
4/22/2011	24,195.10	23,969.20	1.70	1.80
4/23/2011	24,196.70	23,971.00	1.60	1.80
4/24/2011	24,198.00	23,972.30	1.30	1.30
4/25/2011	24,199.50	23,973.80	1.50	1.50
4/26/2011	24,201.20	23,975.70	1.70	1.90
4/27/2011	24,202.90	23,977.50	1.70	1.80
4/28/2011	24,204.80	23,979.50	1.90	2.00
4/29/2011	24,206.40	23,981.20	1.60	1.70
4/30/2011	24,208.00	23,982.90	1.60	1.70
5/1/2011	24,209.20	23,984.00	1.20	1.10
5/2/2011	24,210.80	23,985.70	1.60	1.70
5/3/2011	24,212.50	23,987.50	1.70	1.80
5/4/2011	24,214.30	23,989.20	1.80	1.70
5/5/2011	24,216.00	23,991.10	1.70	1.90
5/6/2011	24,217.90	23,993.10	1.90	2.00
5/7/2011	24,219.50	23,994.70	1.60	1.60
5/8/2011	24,220.90	23,996.20	1.40	1.50
5/9/2011	24,222.40	23,997.70	1.50	1.50
5/10/2011	24,224.20	23,999.40	1.80	1.70
5/11/2011	24,225.80	24,001.10	1.60	1.70
5/12/2011	24,227.80	24,003.00	2.00	1.90
5/13/2011	24,229.50	24,004.90	1.70	1.90
5/14/2011	24,231.10	24,006.60	1.60	1.70
5/15/2011	24,232.60	24,008.20	1.50	1.60
5/16/2011	24,234.30	24,009.90	1.70	1.70
5/17/2011	24,236.10	24,011.80	1.80	1.90
5/18/2011	24,237.70	24,013.60	1.60	1.80
5/19/2011	24,239.50	24,015.50	1.80	1.90
5/20/2011	24,241.30	24,017.30	1.80	1.80
5/21/2011	24,242.80	24,019.10	1.50	1.80
5/22/2011	24,244.40	24,020.60	1.60	1.50

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
5/23/2011	24,245.80	24,022.20	1.40	1.60
5/24/2011	24,247.50	24,023.90	1.70	1.70
5/25/2011	24,249.30	24,025.80	1.80	1.90
5/26/2011	24,251.00	24,027.60	1.70	1.80
5/27/2011	24,252.70	24,029.40	1.70	1.80
5/28/2011	24,254.30	24,031.00	1.60	1.60
5/29/2011	24,255.80	24,032.60	1.50	1.60
5/30/2011	24,257.30	24,034.10	1.50	1.50
5/31/2011	24,259.20	24,036.20	1.90	2.10
6/1/2011	24,260.90	24,037.90	1.70	1.70
6/2/2011	24,262.60	24,039.70	1.70	1.80
6/3/2011	24,264.40	24,041.50	1.80	1.80
6/4/2011	24,266.10	24,043.40	1.70	1.90
6/5/2011	24,267.40	24,044.80	1.30	1.40
6/6/2011	24,268.80	24,046.30	1.40	1.50
6/7/2011	24,270.50	24,048.10	1.70	1.80
6/8/2011	24,272.30	24,050.00	1.80	1.90
6/9/2011	24,274.20	24,051.90	1.90	1.90
6/10/2011	24,275.80	24,053.70	1.60	1.80
6/11/2011	24,277.30	24,055.30	1.50	1.60
6/12/2011	24,278.70	24,056.70	1.40	1.40
6/13/2011	24,280.30	24,058.40	1.60	1.70
6/14/2011	24,282.00	24,060.20	1.70	1.80
6/15/2011	24,283.70	24,062.00	1.70	1.80
6/16/2011	24,285.40	24,063.80	1.70	1.80
6/17/2011	24,287.00	24,065.60	1.60	1.80
6/18/2011	24,288.80	24,067.40	1.80	1.80
6/19/2011	24,290.30	24,069.10	1.50	1.70
6/20/2011	24,291.80	24,070.60	1.50	1.50
6/21/2011	24,293.70	24,072.50	1.90	1.90
6/22/2011	24,295.60	24,074.50	1.90	2.00
6/23/2011	24,297.30	24,076.50	1.70	2.00
6/24/2011	24,299.10	24,078.40	1.80	1.90
6/25/2011	24,300.80	24,080.20	1.70	1.80
6/26/2011	24,302.30	24,081.80	1.50	1.60
6/27/2011	24,303.70	24,083.30	1.40	1.50
6/28/2011	24,305.40	24,085.10	1.70	1.80
6/29/2011	24,307.10	24,086.90	1.70	1.80
6/30/2011	24,309.00	24,088.90	1.90	2.00
7/1/2011	24,310.50	24,090.50	1.50	1.60
7/2/2011	24,312.00	24,092.20	1.50	1.70
7/3/2011	24,313.40	24,093.50	1.40	1.30
7/4/2011	24,314.70	24,094.80	1.30	1.30
7/5/2011	24,316.10	24,096.50	1.40	1.70
7/6/2011	24,317.80	24,098.20	1.70	1.70
7/7/2011	24,319.40	24,099.80	1.60	1.60
7/8/2011	24,321.00	24,101.50	1.60	1.70
7/9/2011	24,322.50	24,103.10	1.50	1.60

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
7/10/2011	24,323.80	24,104.50	1.30	1.40
7/11/2011	24,325.30	24,106.00	1.50	1.50
7/12/2011	24,327.00	24,107.80	1.70	1.80
7/13/2011	24,328.70	24,109.60	1.70	1.80
7/14/2011	24,330.30	24,111.30	1.60	1.70
7/15/2011	24,331.90	24,113.10	1.60	1.80
7/16/2011	24,333.50	24,114.70	1.60	1.60
7/17/2011	24,334.90	24,116.20	1.40	1.50
7/18/2011	24,336.30	24,117.70	1.40	1.50
7/19/2011	24,338.00	24,119.50	1.70	1.80
7/20/2011	24,339.60	24,121.20	1.60	1.70
7/21/2011	24,341.20	24,122.80	1.60	1.60
7/22/2011	24,342.90	24,124.70	1.70	1.90
7/23/2011	24,344.40	24,126.20	1.50	1.50
7/24/2011	24,345.70	24,127.60	1.30	1.40
7/25/2011	24,347.10	24,129.00	1.40	1.40
7/26/2011	24,348.60	24,130.70	1.50	1.70
7/27/2011	24,350.20	24,132.40	1.60	1.70
7/28/2011	24,351.80	24,134.10	1.60	1.70
7/29/2011	24,353.30	24,135.70	1.50	1.60
7/30/2011	24,354.80	24,137.20	1.50	1.50
7/31/2011	24,356.10	24,138.50	1.30	1.30
8/1/2011	24,357.80	24,140.40	1.70	1.90
8/2/2011	24,359.20	24,141.80	1.40	1.40
8/3/2011	24,360.90	24,143.70	1.70	1.90
8/4/2011	24,362.50	24,145.50	1.60	1.80
8/5/2011	24,364.10	24,147.10	1.60	1.60
8/6/2011	24,365.70	24,148.60	1.60	1.50
8/7/2011	24,366.90	24,149.90	1.20	1.30
8/8/2011	24,368.10	24,151.30	1.20	1.40
8/9/2011	24,369.80	24,153.00	1.70	1.70
8/10/2011	24,371.40	24,154.70	1.60	1.70
8/11/2011	24,373.10	24,156.60	1.70	1.90
8/12/2011	24,374.50	24,158.10	1.40	1.50
8/13/2011	24,376.00	24,159.50	1.50	1.40
8/14/2011	24,377.40	24,160.90	1.40	1.40
8/15/2011	24,378.70	24,162.40	1.30	1.50
8/16/2011	24,380.40	24,164.40	1.70	2.00
8/17/2011	24,381.80	24,165.60	1.40	1.20
8/18/2011	24,383.50	24,167.30	1.70	1.70
8/19/2011	24,385.00	24,168.90	1.50	1.60
8/20/2011	24,386.70	24,170.50	1.70	1.60
8/21/2011	24,388.10	24,172.10	1.40	1.60
8/22/2011	24,389.30	24,173.30	1.20	1.20
8/23/2011	24,390.60	24,174.90	1.30	1.60
8/24/2011	24,392.40	24,176.60	1.80	1.70
8/25/2011	24,394.10	24,178.30	1.70	1.70
8/26/2011	24,395.90	24,180.20	1.80	1.90

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
8/27/2011	24,397.40	24,181.80	1.50	1.60
8/28/2011	24,398.70	24,183.00	1.30	1.20
8/29/2011	24,399.80	24,184.30	1.10	1.30
8/30/2011	24,401.50	24,186.00	1.70	1.70
8/31/2011	24,403.30	24,187.80	1.80	1.80
9/1/2011	24,405.10	24,189.70	1.80	1.90
9/2/2011	24,406.40	24,191.00	1.30	1.30
9/3/2011	24,407.80	24,192.50	1.40	1.50
9/4/2011	24,409.10	24,193.80	1.30	1.30
9/5/2011	24,410.40	24,195.20	1.30	1.40
9/6/2011	24,412.20	24,197.00	1.80	1.80
9/7/2011	24,413.70	24,198.70	1.50	1.70
9/8/2011	24,415.40	24,200.30	1.70	1.60
9/9/2011	24,416.80	24,201.90	1.40	1.60
9/10/2011	24,418.20	24,203.30	1.40	1.40
9/11/2011	24,419.40	24,204.50	1.20	1.20
9/12/2011	24,420.60	24,205.90	1.20	1.40
9/13/2011	24,422.30	24,207.60	1.70	1.70
9/14/2011	24,423.90	24,209.20	1.60	1.60
9/15/2011	24,425.50	24,211.00	1.60	1.80
9/16/2011	24,427.00	24,212.50	1.50	1.50
9/17/2011	24,428.60	24,214.20	1.60	1.70
9/18/2011	24,429.90	24,215.60	1.30	1.40
9/19/2011	24,431.10	24,216.70	1.20	1.10
9/20/2011	24,432.60	24,218.40	1.50	1.70
9/21/2011	24,434.20	24,220.10	1.60	1.70
9/22/2011	24,435.80	24,221.80	1.60	1.70
9/23/2011	24,437.50	24,223.40	1.70	1.60
9/24/2011	24,438.90	24,224.90	1.40	1.50
9/25/2011	24,440.10	24,226.20	1.20	1.30
9/26/2011	24,441.50	24,227.60	1.40	1.40
9/27/2011	24,443.10	24,229.40	1.60	1.80
9/28/2011	24,444.70	24,231.00	1.60	1.60
9/29/2011	24,447.00	24,233.40	2.30	2.40
9/30/2011	24,447.80	24,234.20	0.80	0.80
10/1/2011	24,449.40	24,235.80	1.60	1.60
10/2/2011	24,450.60	24,237.10	1.20	1.30
10/3/2011	24,451.80	24,238.40	1.20	1.30
10/4/2011	24,453.50	24,240.20	1.70	1.80
10/5/2011	24,455.10	24,241.90	1.60	1.70
10/6/2011	24,456.70	24,243.60	1.60	1.70
10/7/2011	24,458.40	24,245.30	1.70	1.70
10/8/2011	24,460.10	24,247.10	1.70	1.80
10/9/2011	24,461.40	24,248.50	1.30	1.40
10/10/2011	24,462.30	24,249.70	0.90	1.20
10/11/2011	24,464.20	24,251.40	1.90	1.70
10/12/2011	24,465.80	24,253.10	1.60	1.70
10/13/2011	24,467.50	24,254.80	1.70	1.70

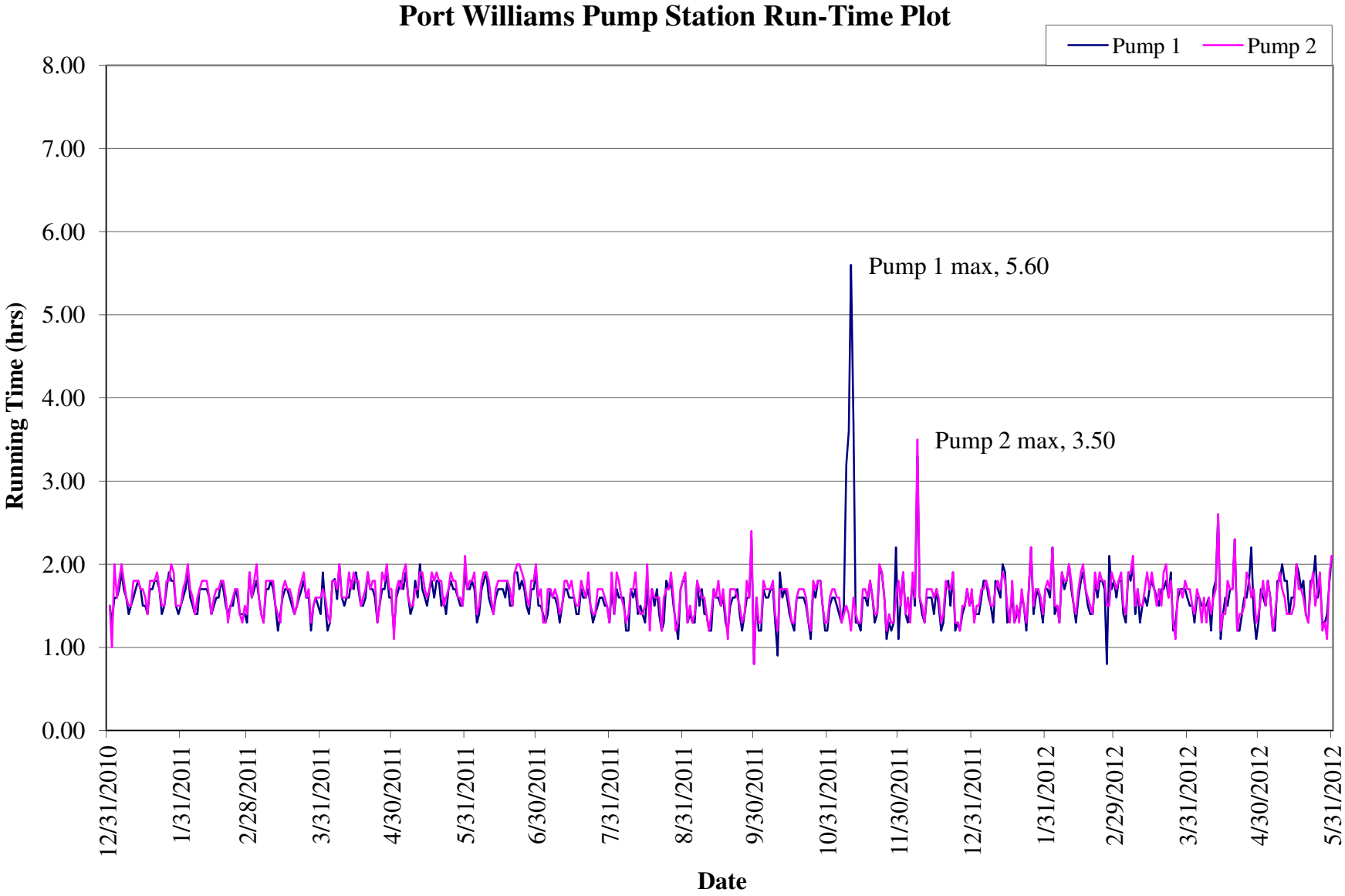
Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
10/14/2011	24,469.10	24,256.50	1.60	1.70
10/15/2011	24,470.50	24,258.00	1.40	1.50
10/16/2011	24,471.80	24,259.30	1.30	1.30
10/17/2011	24,473.00	24,260.60	1.20	1.30
10/18/2011	24,474.60	24,262.20	1.60	1.60
10/19/2011	24,476.20	24,263.90	1.60	1.70
10/20/2011	24,477.80	24,265.60	1.60	1.70
10/21/2011	24,479.40	24,267.30	1.60	1.70
10/22/2011	24,480.90	24,268.90	1.50	1.60
10/23/2011	24,482.20	24,270.20	1.30	1.30
10/24/2011	24,483.30	24,271.40	1.10	1.20
10/25/2011	24,485.00	24,273.20	1.70	1.80
10/26/2011	24,486.60	24,274.90	1.60	1.70
10/27/2011	24,488.40	24,276.70	1.80	1.80
10/28/2011	24,490.20	24,278.50	1.80	1.80
10/29/2011	24,491.70	24,280.00	1.50	1.50
10/30/2011	24,492.90	24,281.30	1.20	1.30
10/31/2011	24,494.10	24,282.60	1.20	1.30
11/1/2011	24,495.60	24,284.20	1.50	1.60
11/2/2011	24,497.20	24,285.90	1.60	1.70
11/3/2011	24,498.80	24,287.60	1.60	1.70
11/4/2011	24,500.30	24,289.20	1.50	1.60
11/5/2011	24,501.70	24,290.80	1.40	1.60
11/6/2011	24,503.00	24,292.10	1.30	1.30
11/7/2011	24,504.50	24,293.50	1.50	1.40
11/8/2011	24,507.70	24,295.00	3.20	1.50
11/9/2011	24,511.30	24,296.40	3.60	1.40
11/10/2011	24,516.90	24,297.60	5.60	1.20
11/11/2011	24,520.60	24,299.20	3.70	1.60
11/12/2011	24,521.90	24,300.60	1.30	1.40
11/13/2011	24,523.20	24,301.90	1.30	1.30
11/14/2011	24,524.40	24,303.20	1.20	1.30
11/15/2011	24,526.00	24,304.90	1.60	1.70
11/16/2011	24,527.60	24,306.60	1.60	1.70
11/17/2011	24,529.10	24,308.20	1.50	1.60
11/18/2011	24,530.90	24,310.00	1.80	1.80
11/19/2011	24,532.50	24,311.60	1.60	1.60
11/20/2011	24,533.80	24,313.00	1.30	1.40
11/21/2011	24,535.20	24,314.40	1.40	1.40
11/22/2011	24,537.10	24,316.40	1.90	2.00
11/23/2011	24,539.00	24,318.30	1.90	1.90
11/24/2011	24,540.60	24,319.90	1.60	1.60
11/25/2011	24,541.70	24,321.10	1.10	1.20
11/26/2011	24,543.00	24,322.50	1.30	1.40
11/27/2011	24,544.20	24,323.80	1.20	1.30
11/28/2011	24,545.50	24,325.10	1.30	1.30
11/29/2011	24,547.70	24,326.70	2.20	1.60
11/30/2011	24,548.80	24,328.50	1.10	1.80

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
12/1/2011	24,550.40	24,330.00	1.60	1.50
12/2/2011	24,552.30	24,331.90	1.90	1.90
12/3/2011	24,553.70	24,333.30	1.40	1.40
12/4/2011	24,555.00	24,334.90	1.30	1.60
12/5/2011	24,556.50	24,336.20	1.50	1.30
12/6/2011	24,558.30	24,338.10	1.80	1.90
12/7/2011	24,559.80	24,339.70	1.50	1.60
12/8/2011	24,563.10	24,343.20	3.30	3.50
12/9/2011	24,564.70	24,344.80	1.60	1.60
12/10/2011	24,566.10	24,346.30	1.40	1.50
12/11/2011	24,567.40	24,347.60	1.30	1.30
12/12/2011	24,569.00	24,349.30	1.60	1.70
12/14/2011	24,570.60	24,351.00	1.60	1.70
12/15/2011	24,572.00	24,352.60	1.40	1.60
12/16/2011	24,573.70	24,354.30	1.70	1.70
12/17/2011	24,575.20	24,355.90	1.50	1.60
12/18/2011	24,576.40	24,357.20	1.20	1.30
12/19/2011	24,577.70	24,358.60	1.30	1.40
12/20/2011	24,579.40	24,360.40	1.70	1.80
12/21/2011	24,581.20	24,362.10	1.80	1.70
12/22/2011	24,582.70	24,363.80	1.50	1.70
12/23/2011	24,584.60	24,365.70	1.90	1.90
12/24/2011	24,585.80	24,367.00	1.20	1.30
12/25/2011	24,587.10	24,368.30	1.30	1.30
12/26/2011	24,588.30	24,369.50	1.20	1.20
12/27/2011	24,589.70	24,371.00	1.40	1.50
12/28/2011	24,591.20	24,372.50	1.50	1.50
12/29/2011	24,592.90	24,374.20	1.70	1.70
12/30/2011	24,594.40	24,375.70	1.50	1.50
12/31/2011	24,596.00	24,377.40	1.60	1.70
1/1/2012	24,597.40	24,378.70	1.40	1.30
1/2/2012	24,598.80	24,380.20	1.40	1.50
1/3/2012	24,600.20	24,381.70	1.40	1.50
1/4/2012	24,601.80	24,383.40	1.60	1.70
1/5/2012	24,603.60	24,385.10	1.80	1.70
1/6/2012	24,605.40	24,386.90	1.80	1.80
1/7/2012	24,607.00	24,388.60	1.60	1.70
1/8/2012	24,608.50	24,390.10	1.50	1.50
1/9/2012	24,609.80	24,391.60	1.30	1.50
1/10/2012	24,611.60	24,393.30	1.80	1.70
1/11/2012	24,613.30	24,395.10	1.70	1.80
1/12/2012	24,614.90	24,396.80	1.60	1.70
1/13/2012	24,616.90	24,398.70	2.00	1.90
1/14/2012	24,618.80	24,400.50	1.90	1.80
1/15/2012	24,620.10	24,402.00	1.30	1.50
1/16/2012	24,621.50	24,403.30	1.40	1.30
1/17/2012	24,623.10	24,405.10	1.60	1.80
1/18/2012	24,624.40	24,406.40	1.30	1.30

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
1/19/2012	24,625.80	24,407.90	1.40	1.50
1/20/2012	24,627.20	24,409.20	1.40	1.30
1/21/2012	24,628.80	24,410.90	1.60	1.70
1/22/2012	24,630.30	24,412.40	1.50	1.50
1/23/2012	24,631.50	24,413.70	1.20	1.30
1/24/2012	24,633.20	24,415.40	1.70	1.70
1/25/2012	24,635.40	24,417.60	2.20	2.20
1/26/2012	24,636.80	24,419.10	1.40	1.50
1/27/2012	24,638.40	24,420.80	1.60	1.70
1/28/2012	24,640.10	24,422.50	1.70	1.70
1/29/2012	24,641.60	24,424.10	1.50	1.60
1/30/2012	24,642.90	24,425.50	1.30	1.40
1/31/2012	24,644.60	24,427.20	1.70	1.70
2/1/2012	24,646.30	24,429.00	1.70	1.80
2/2/2012	24,647.90	24,430.70	1.60	1.70
2/3/2012	24,650.10	24,432.90	2.20	2.20
2/4/2012	24,651.50	24,434.40	1.40	1.50
2/5/2012	24,653.00	24,435.90	1.50	1.50
2/6/2012	24,654.30	24,437.20	1.30	1.30
2/7/2012	24,656.20	24,439.10	1.90	1.90
2/8/2012	24,657.90	24,440.90	1.70	1.80
2/9/2012	24,659.70	24,442.70	1.80	1.80
2/10/2012	24,661.70	24,444.70	2.00	2.00
2/11/2012	24,663.40	24,446.50	1.70	1.80
2/12/2012	24,664.90	24,448.00	1.50	1.50
2/13/2012	24,666.20	24,449.40	1.30	1.40
2/14/2012	24,667.80	24,451.10	1.60	1.70
2/15/2012	24,669.60	24,453.00	1.80	1.90
2/16/2012	24,671.50	24,455.00	1.90	2.00
2/17/2012	24,673.20	24,456.70	1.70	1.70
2/18/2012	24,674.70	24,458.30	1.50	1.60
2/19/2012	24,676.10	24,459.80	1.40	1.50
2/20/2012	24,677.50	24,461.20	1.40	1.40
2/21/2012	24,679.30	24,463.10	1.80	1.90
2/22/2012	24,680.90	24,464.80	1.60	1.70
2/23/2012	24,682.70	24,466.70	1.80	1.90
2/24/2012	24,684.50	24,468.50	1.80	1.80
2/25/2012	24,686.20	24,470.30	1.70	1.80
2/26/2012	24,687.00	24,471.80	0.80	1.50
2/27/2012	24,689.10	24,473.30	2.10	1.50
2/28/2012	24,690.80	24,475.20	1.70	1.90
2/29/2012	24,692.60	24,477.00	1.80	1.80
3/1/2012	24,694.20	24,478.70	1.60	1.70
3/2/2012	24,696.00	24,480.50	1.80	1.80
3/3/2012	24,697.80	24,482.40	1.80	1.90
3/4/2012	24,699.20	24,483.90	1.40	1.50
3/5/2012	24,700.50	24,485.30	1.30	1.40
3/6/2012	24,702.40	24,487.20	1.90	1.90

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
3/7/2012	24,704.20	24,489.10	1.80	1.90
3/8/2012	24,706.20	24,491.20	2.00	2.10
3/9/2012	24,707.60	24,492.70	1.40	1.50
3/10/2012	24,709.30	24,494.40	1.70	1.70
3/11/2012	24,710.60	24,495.90	1.30	1.50
3/12/2012	24,712.10	24,497.40	1.50	1.50
3/13/2012	24,713.70	24,499.10	1.60	1.70
3/14/2012	24,715.20	24,501.00	1.50	1.90
3/15/2012	24,716.90	24,502.70	1.70	1.70
3/16/2012	24,718.70	24,504.60	1.80	1.90
3/17/2012	24,720.40	24,506.30	1.70	1.70
3/18/2012	24,722.00	24,507.80	1.60	1.50
3/19/2012	24,723.50	24,509.50	1.50	1.70
3/20/2012	24,725.20	24,511.00	1.70	1.50
3/21/2012	24,726.90	24,512.90	1.70	1.90
3/22/2012	24,728.70	24,514.90	1.80	2.00
3/23/2012	24,730.30	24,516.50	1.60	1.60
3/24/2012	24,732.20	24,518.30	1.90	1.80
3/25/2012	24,733.40	24,519.60	1.20	1.30
3/26/2012	24,734.70	24,520.70	1.30	1.10
3/27/2012	24,736.30	24,522.40	1.60	1.70
3/28/2012	24,738.00	24,524.10	1.70	1.70
3/29/2012	24,739.70	24,525.70	1.70	1.60
3/30/2012	24,741.40	24,527.50	1.70	1.80
3/31/2012	24,743.00	24,529.20	1.60	1.70
4/1/2012	24,744.50	24,530.90	1.50	1.70
4/2/2012	24,746.00	24,532.40	1.50	1.50
4/3/2012	24,747.30	24,533.80	1.30	1.40
4/4/2012	24,748.90	24,535.50	1.60	1.70
4/5/2012	24,750.50	24,537.10	1.60	1.60
4/6/2012	24,752.00	24,538.40	1.50	1.30
4/7/2012	24,753.50	24,540.00	1.50	1.60
4/8/2012	24,755.00	24,541.30	1.50	1.30
4/9/2012	24,756.60	24,542.90	1.60	1.60
4/10/2012	24,757.80	24,544.30	1.20	1.40
4/11/2012	24,759.50	24,545.90	1.70	1.60
4/12/2012	24,761.30	24,547.60	1.80	1.70
4/13/2012	24,763.90	24,550.20	2.60	2.60
4/14/2012	24,765.00	24,551.40	1.10	1.20
4/15/2012	24,766.40	24,552.80	1.40	1.40
4/16/2012	24,768.00	24,554.20	1.60	1.40
4/17/2012	24,769.50	24,556.00	1.50	1.80
4/18/2012	24,771.20	24,557.70	1.70	1.70
4/19/2012	24,772.90	24,559.40	1.70	1.70
4/20/2012	24,775.20	24,561.70	2.30	2.30
4/21/2012	24,776.40	24,562.90	1.20	1.20
4/22/2012	24,777.60	24,564.30	1.20	1.40
4/23/2012	24,779.00	24,565.70	1.40	1.40

Port Williams Pump Station Data				
	Pump Reading		Run time (from previous)	
Date	Pump 1	Pump 2	Pump 1	Pump 2
4/24/2012	24,780.60	24,567.20	1.60	1.50
4/25/2012	24,782.20	24,569.10	1.60	1.90
4/26/2012	24,784.00	24,570.90	1.80	1.80
4/27/2012	24,786.20	24,572.50	2.20	1.60
4/28/2012	24,787.60	24,574.20	1.40	1.70
4/29/2012	24,788.70	24,575.50	1.10	1.30
4/30/2012	24,790.00	24,576.90	1.30	1.40
5/1/2012	24,791.70	24,578.50	1.70	1.60
5/2/2012	24,793.30	24,580.30	1.60	1.80
5/3/2012	24,794.80	24,581.80	1.50	1.50
5/4/2012	24,796.60	24,583.60	1.80	1.80
5/5/2012	24,798.20	24,585.20	1.60	1.60
5/6/2012	24,799.40	24,586.40	1.20	1.20
5/7/2012	24,800.60	24,587.80	1.20	1.40
5/8/2012	24,802.40	24,589.50	1.80	1.70
5/9/2012	24,804.20	24,591.40	1.80	1.90
5/10/2012	24,806.20	24,593.10	2.00	1.70
5/11/2012	24,808.00	24,594.70	1.80	1.60
5/12/2012	24,809.80	24,596.10	1.80	1.40
5/13/2012	24,811.20	24,597.50	1.40	1.40
5/14/2012	24,812.80	24,598.90	1.60	1.40
5/15/2012	24,814.40	24,600.40	1.60	1.50
5/16/2012	24,816.40	24,602.40	2.00	2.00
5/17/2012	24,818.30	24,604.10	1.90	1.70
5/18/2012	24,820.00	24,605.80	1.70	1.70
5/19/2012	24,821.80	24,607.40	1.80	1.60
5/20/2012	24,823.20	24,608.80	1.40	1.40
5/21/2012	24,824.50	24,610.10	1.30	1.30
5/22/2012	24,826.30	24,611.80	1.80	1.70
5/23/2012	24,828.10	24,613.70	1.80	1.90
5/24/2012	24,830.20	24,615.20	2.10	1.50
5/25/2012	24,831.80	24,616.90	1.60	1.70
5/26/2012	24,833.60	24,618.80	1.80	1.90
5/27/2012	24,834.90	24,620.00	1.30	1.20
5/28/2012	24,836.20	24,621.30	1.30	1.30
5/29/2012	24,837.60	24,622.40	1.40	1.10
5/30/2012	24,839.40	24,624.30	1.80	1.90
5/31/2012	24,841.50	24,626.40	2.10	2.10


Port Williams Pump Station Run-Time Plot
Pump 1
Pump 2
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
Running Time (hrs)
Pump 1 max, 5.60
Pump 2 max, 3.50
12/31/2010
1/31/2011
2/28/2011
3/31/2011
4/30/2011
5/31/2011
6/30/2011
7/31/2011
8/31/2011
9/30/2011
10/31/2011
11/30/2011
12/31/2011
1/31/2012
2/29/2012
3/31/2012
4/30/2012
5/31/2012
Date

APPENDIX E

COLLECTION SYSTEM HYDRAULIC MODEL

APPENDIX E

SEWER SYSTEM HYDRAULIC MODELING REPORT

BACKGROUND INFORMATION

This Sewer System Hydraulic Modeling Report explains the development of the hydraulic model, the assumptions used within the model, and provides the detailed modeling results for each of four scenarios: 2012, 2018, 2032, and Buildout. The output from these four scenarios is used to evaluate the capacity of the existing collection system and to identify improvements that will be necessary in the future. The model is intended to be updated and maintained periodically and used as a tool to aid in future planning and design efforts.

MODEL DEVELOPMENT

The primary goal in the development of the City's hydraulic model was to create a model that represents the physical structure of the main trunk lines of the current wastewater collection system and to determine system deficiencies as the City grows over both the 6- and 20-year planning periods. A second goal was to update the previous model into a GIS based format.

The previous model was constructed for the *2003 Sequim Wastewater Comprehensive Plan* using HYDRA software by Pizer Inc. that is no longer commercially available. HYDRA software utilized AutoCAD as a base platform and Microsoft Access software for data management. The current model was updated using INFOSewer by Innovyze Inc. This software is GIS based, has both steady state and dynamic modeling capabilities, an integrated data management system, and is also compatible with Microsoft Office products.

As with other GIS - based programs, INFOSewer uses various layers and elements to define types of features such as pump stations, gravity pipes, force mains, and manholes. Each of these layers has individual elements, which are identified using a unique name or number established by the user. Each element is assigned a number of attributes specific to its function and representation. Element attributes include spatial coordinates, rim elevation, invert elevation, diameter, slope, assigned flows, as well as pump characteristics. Model input is accomplished through the creation and manipulation of these objects and their attributes. The results for a simulation can be given graphically or in tabular report format and return data based on parameters chosen by the user such as flow, depth of sewer flow, hydraulic grade, and wet well levels.

INFOSewer software operates using ESRI's ArcView GIS software program as a platform. GIS files for sewer system manholes, pipes, parcels, basins, etc. are imported into the model and the modeling software performs the hydraulic calculations. Microsoft Excel is used to view and display tabular data and for some data manipulation.

Although many layers were incorporated into visualizing the model, only "manhole", "gravity pipe", "forcemain", and "wet-well" layers were involved with model predictions and outputs. Figures E-1 through E-4 below show input information that is possible for each of the four layers used in the model.

FIGURE E-1

Screen Shot of Manhole Layer Input Information Options

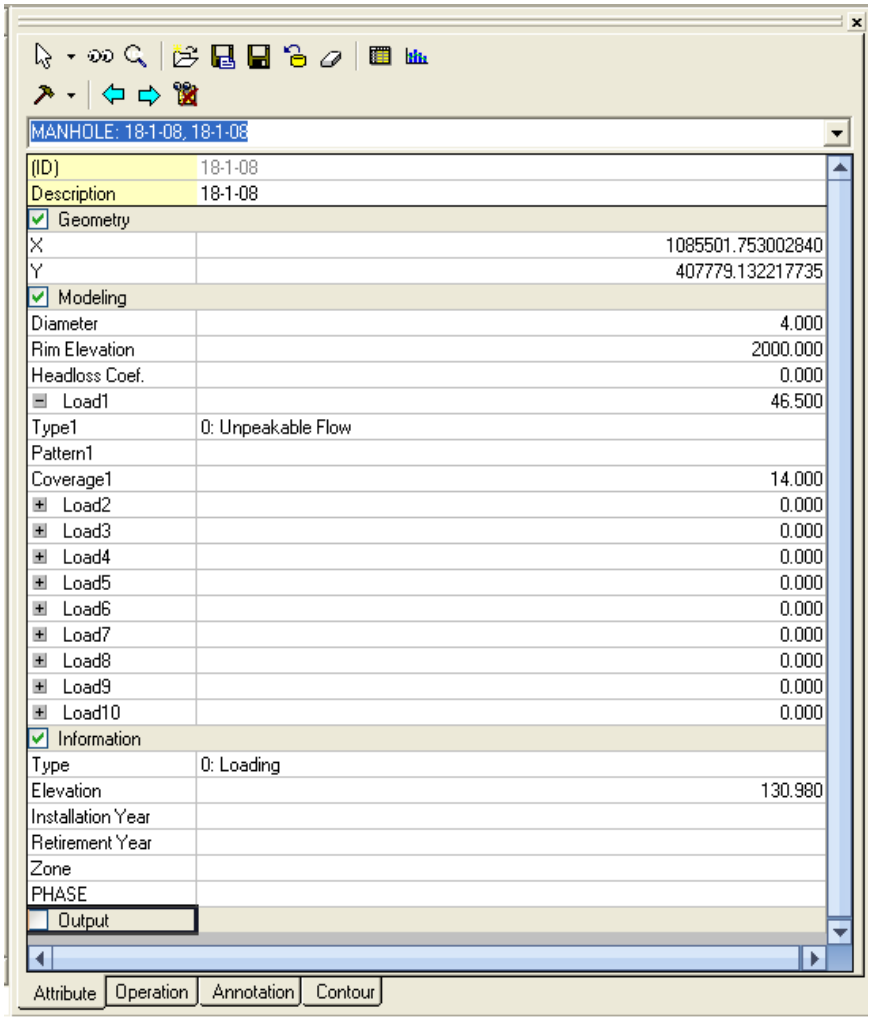


FIGURE E-2

Screen Shot of Gravity Pipe Layer Input Information Options

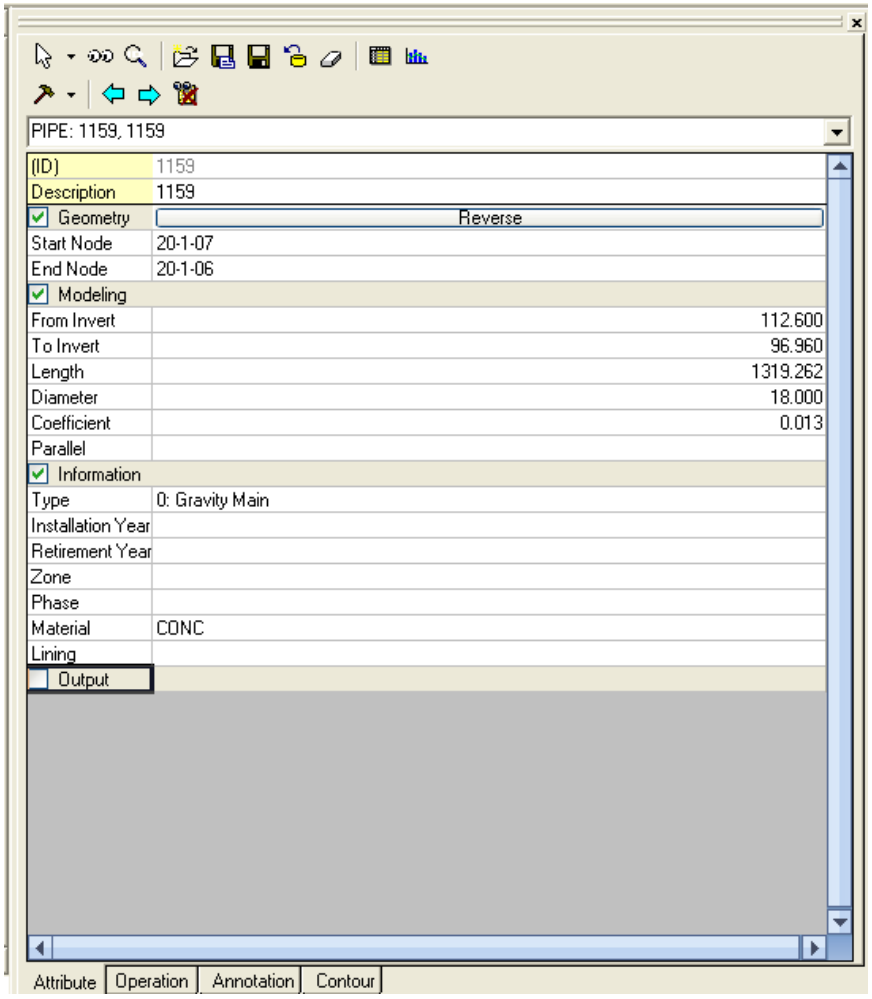


FIGURE E-3

Screen Shot of Forcemain Layer Input Information Options

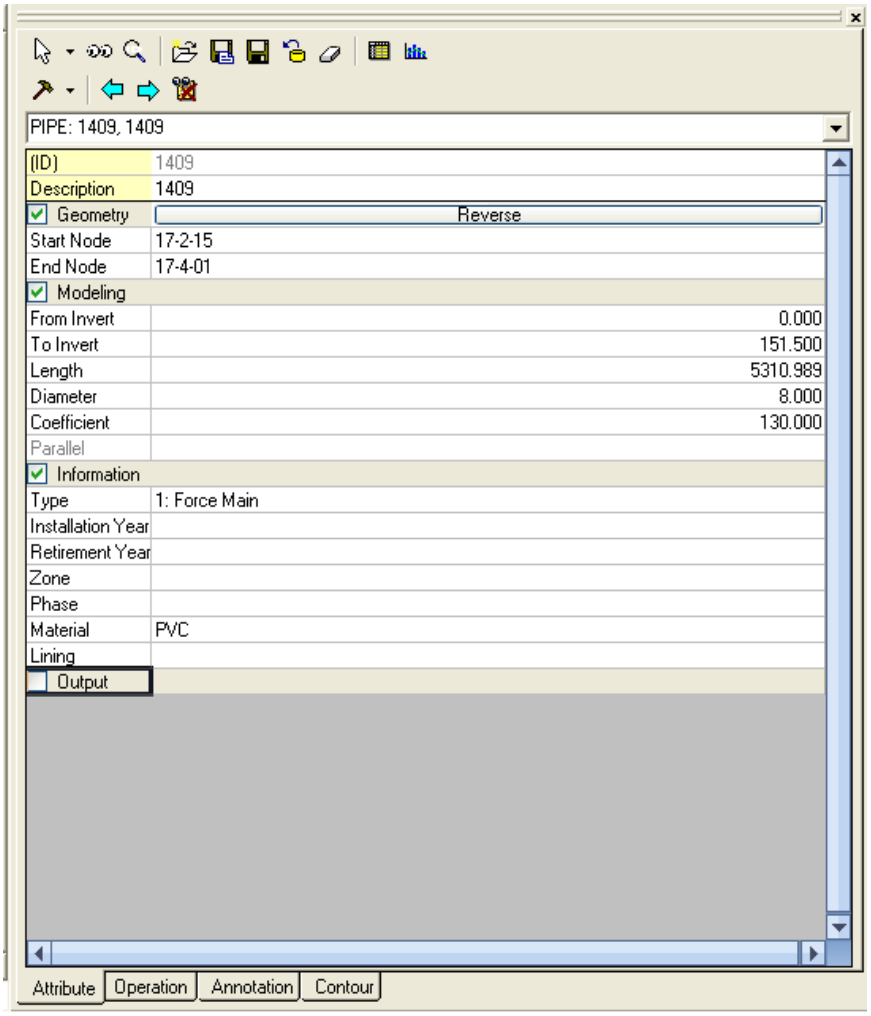
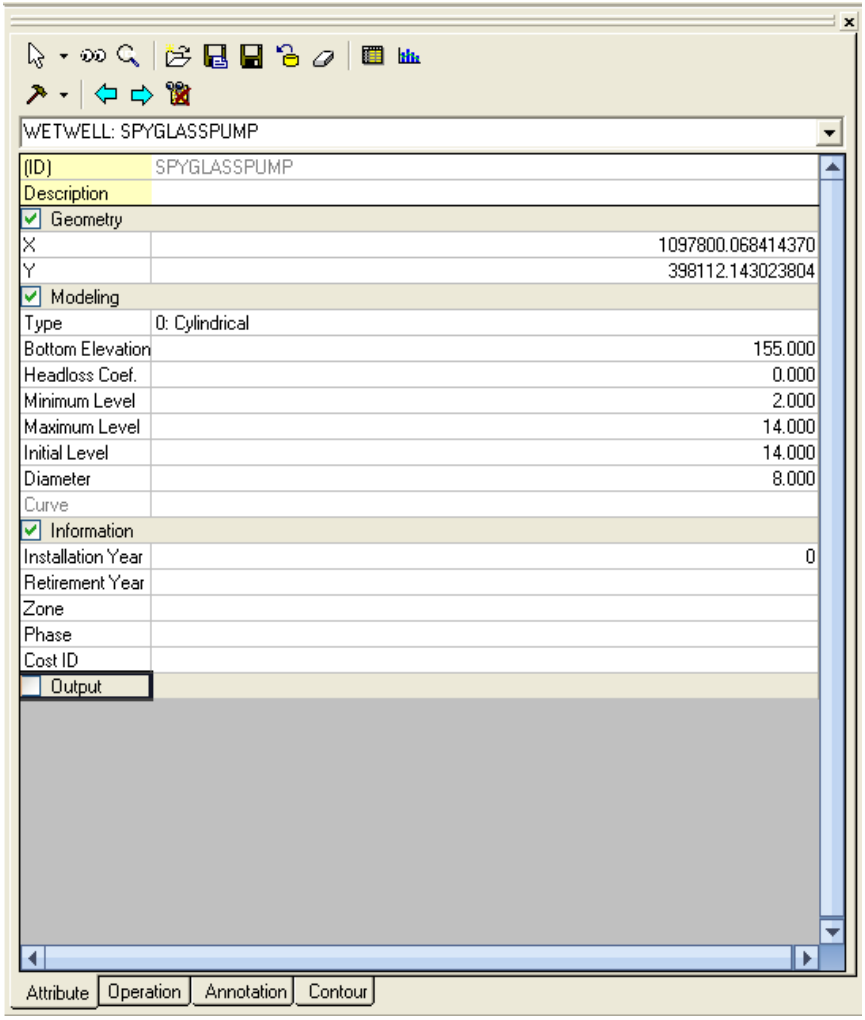


FIGURE E-4

Screen Shot of Wet-Well Layer Input Information Options



Information to create these layers was provided by the City in GIS shape files. Missing pipe or manhole input information was assumed using standard assumptions from Ecology's *Criteria for Sewage Works Design* (Orange Book), and are listed in Table E-1 below. Typically, where specific pipe inverts were not known, elevations were determined through linear interpolation between known upstream and downstream inverts.

The four layers listed above contain all data pertaining to flows within the system. Seven basins were created based on the natural drainage patterns of the City's service area. The basins were further sub-divided into sixty-three smaller sub-basins. Flows for each sub-basin were determined based on the number and zoning of the parcels within the sub-basin. Parcel information was provided by the City and is summarized in Table E-2 below. Similar tables were constructed for each modeling scenario. Table E-3, E-4, and E-5 show the assumed zoning designations for the year 2018, 2032, and buildout, respectively.

A peaking factor was used to determine the peak hour flow. The peaking factor for residential flows was calculated using a combination of WRF influent data and an equation provided by

Ecology's *Criteria for Sewage Works Design* (Orange Book). The equation calculates a peaking factor based on population. As population increases, the peaking factor decreases to account for greater attenuation of flows in the presumed larger system. This formula defines the diurnal peaking factor as:

$$Pf = \frac{18 + \sqrt{P}}{4 + \sqrt{P}}$$

Where P = Estimated population, in thousands.

The diurnal peaking factor of 3.03 was determined by taking the 90th percentile peaking factor based on ten days of WRF influent flow data, and adjusting it based on the Ecology defined peaking factor above.

Within each of the sixty-three sub-basins, flow was ascribed according to four different zoning designations. These designations were single-family residential, multi-family residential, commercial, and school. Within each sub-basin, the number of vacant parcels for single-family residential and commercial parcels was estimated by visual inspection of aerial photographs and information from the City.

To incorporate infiltration and inflow (I/I), a peak hour value of 508 gallons per acre per day (gpad) was used. This value was developed in Chapter 2 and stems from a review of WRF influent flow records. To calculate the peak hour I/I, the hourly flow on May 13, 2011 (12:00 pm) was subtracted from the historical peak hour measured flow (2.70 mgd, measured during a major storm) from that same time on May 15, 2011. This value was divided by the number of acres in the service area (3,541 acres) to achieve an estimate of peak hour I/I of 508 gpad. This value was then converted to 0.353 gpam (gallons per acre per minute) for the modeling exercise and was applied to each of the subsequent flow categories. Within each sub-basin, the acres of each of the four zoning designations listed in the previous paragraph were compiled and multiplied by the peak hour I/I value.

For residential flow a combination of zoning information and parcel boundaries was used to estimate the number of occupied single family residential parcels. SFR parcels include R-II and R-III designations. Each of these occupied parcels was assumed to be a single ERU. Each ERU accounted for 111 gpd, which was converted to gallons per minute, then multiplied by the diurnal peaking factor of 3.03 to estimate the SFR baseflow. The SFR baseflow was added to the peak hour I/I (0.353 gpam) to give a total flow per sub-basin.

Information regarding multi-family residential units and R-IV zoned areas was provided by the City. Occupancy of MFR units was taken from the 2010 U.S. Census and was assumed to be 88 percent for all multi-family connections. This value remained constant for all four modeling scenarios (2011, 2018, 2032, and Buildout). Each ERU accounted for 111 gpd, which was converted to gallons per minute, then multiplied by the diurnal peaking factor of 3.03. The MFR baseflow was added to the peak hour I/I to give a total flow per sub-basin.

To estimate commercial peak hour flow, the total commercial water use over one calendar year for all commercial connections in 2009, 2010, and 2011 was divided by the number of acres of commercially zoned land, which included C-I(NC), C-II(G), C-II(M), C-III, DC, DMU-I, DMU-II and MU designations. The resultant value of 0.452 gpam was added to the peak hour I/I flow

of 0.353 gpam then multiplied by the number of acres of commercial land in each sub-basin. Commercial customers were assumed to increase 2 percent annually, the same rate as residential customers.

Hotel and motel flows were distributed into sub-basins according to their location and their peak hour water usage was added to the commercial baseflow value of 0.8 gpam (0.452 gpam plus 0.353 gpam, above). Future large or small scale commercial developments were incorporated per the City's instructions.

School flow was added to the appropriate sub-basin at a rate of 0.015 gpm per student. This value was calculated based on average historical water consumption for the City's schools for 2009, 2010, and 2011. The more conservative estimate defined by Ecology was considered, but actual data was used for model predictions as it was considered to be more accurate. The average value for these three years was multiplied by the diurnal peaking factor of 3.03, then divided by the number of students in 2011 at each school to estimate a peak hour flow per student. Schools considered were Sequim High School, Sequim Middle School, Hellen Haller Elementary, and the Community School.

Peak hour flow development spreadsheets for modeling year 2012, 2018, 2032, and buildout are available in Tables E-6, E-7, E-8, and E-9, respectively.

Within each sub-basin the total peak hour flow estimate was input into the model collection system at particular "loading" manholes. The loading manholes were generally located at the upstream end of the network system of each sub-basin in order to provide a conservative flow projection estimate.

Future flows for residential parcels in the basins were developed utilizing the same 111 gallons per ERU. For planning purposes, the following conditions were applied to each model scenario:

- Property within the UGA, but outside the City limits was annexed at an annual rate of 4 percent until the year 2032.
- All property within the UGA, but outside the City limits was annexed by the year 2032.
- This annexed property was assumed to be zoned for medium density single-family residential.
- For the buildout condition, all property was fully developed according to the proposed zoning classification.
- School populations were assumed to grow at an annual rate of 1 percent.

Projected flows for the years 2012, 2018, 2032, and buildout were modeled. The model for 2012 was used to verify the validity and accuracy of assumptions for predicting future wastewater flows within the City's collection system.

EXISTING MODEL RESULTS

Model results are summarized in Chapter 3, but complete output results for all modeled pipes and manholes, with and without Carlsborg flows, are listed in at the end of this Appendix in Table E-10 and Table E-11, respectively.

As shown in Table E-11, there are six sections of the collection system that the model suggests are under capacity for the City's current wastewater flows. When flows from Carlsborg are added to the City's current flows, the model results suggest that several additional sections of pipe and several manholes are under capacity.

For all modeling result tables that follow, the following apply:

- Surcharge depth: the depth of fluid within the manhole that is above the crown (top level) of the outflow pipe
- d/D: the ratio of the depth of flow within the pipe (d), to the overall pipe diameter (D)
- q/Q: the ratio of flow within the pipe (q), to the maximum flow within the pipe (Q)
- Critical Depth: The depth of flow within a channel at which fluid energy is a minimum
- Froude Number: A dimensionless constant that relates inertial forces to gravitational forces.

2018 MODEL RESULTS

Model results are summarized in Chapter 3, but complete output results for all modeled pipes and manholes are listed in at the end of this Appendix in Table E-12 and Table E-13, respectively.

As shown in Table E-13, there are 14 sections of the collection system that the model suggests are under capacity for the City's current wastewater flows. When flows from Carlsborg are added to the City's current flows, the model results suggest that several additional sections of pipe and several manholes are under capacity.

2032 MODEL RESULTS

Model results are summarized in Chapter 3, but complete output results for all modeled pipes and manholes are listed in at the end of this Appendix in Table E-14 and Table E-15, respectively.

As shown in Table E-15, there are 16 sections of the collection system that the model suggests are under capacity for the City's current wastewater flows. When flows from Carlsborg are added to the City's current flows, the model results suggest that several additional sections of pipe and several manholes are under capacity.

BUILDOUT MODEL RESULTS

Model results are summarized in Chapter 3, but complete output results for all modeled pipes and manholes are listed in at the end of this Appendix in Table E-16 and Table E-17, respectively.

As shown in Table E-17, there are 21 sections of the collection system that the model suggests are under capacity for the City's current wastewater flows. When flows from Carlsborg are added to the City's current flows, the model results suggest that several additional sections of pipe and several manholes are under capacity.

TABLE E-1

City of Sequim Modeling Assumptions Information

Edit No.	Upstream Manhole	InfoSEWER Pipe Number	IE_Up Given	IE_Dn Given	IE _Up Assumed	IE_Dn Assumed	Downstream Manhole
1	18-3-10	1010	153.60		162.21	-	18-3-01
2	18-4-01	1017	143.90		140.90	-	18-1-07
3	19-1-35	1060	0.00		198.56	-	19-1-34
4	19-1-37	1062	176.30		177.90	-	19-1-19
5	19-1-38	1063	-		179.50	177.90	19-1-37
6	19-1-20	1045	181.10		-	179.50	19-1-38
7	19-1-40	1064	170.91		174.24	-	19-2-53
8	19-2-52	1093	-		175.53	174.24	19-1-40
9	24-1-08	1272	197.90		196.97		24-2-54
10	19-2-32	1083	194.30	-	-	191.60	19-2-31
11	19-2-31	1082	-	-	191.60	188.90	19-2-30
12	19-2-30	1081	-	186.20	188.90	-	19-2-29
13	19-3-43	1120	235.45	-	-	230.56	19-3-34
14	19-3-34	1117	-	-	230.56	225.67	19-3-33
15	19-3-33	1116	-	220.80	225.67	-	19-4-18
16	19-3-47	1123	-	-	248.77	247.56	19-3-46
17	19-3-46	1122	-	246.97	247.56	-	19-3-44
18	19-4-44	1150	247.00	-	-	239.60	19-4-51
19	19-4-51	1157	-	-	239.60	232.20	19-4-43
20	19-4-43	1149	-	224.80	232.20	-	19-4-40
21	30-1-18	1377	242.60	-	-	236.70	19-4-45
22	19-4-45	1151	-	-	236.70	230.80	19-4-43
23	19-4-43	1149	-	224.80	230.80	-	19-4-40
24	19-4-47	1153	187.20	-	-	186.95	19-4-46
25	19-4-46	1152	-	186.70	186.95	-	19-4-42
26	20-1-19	1161	113.60	-	-	113.10	20-1-13
27	20-1-13	1160	-	112.60	113.10	-	20-1-07
28	20-2-04	1172	132.10	-	-	127.48	20-1-49
29	20-1-49	1169	-	-	127.48	122.85	20-1-50
30	20-1-50	1170	-	-	122.85	118.23	20-1-51
31	20-1-51	1171	-	113.60	118.23	-	20-1-19
32	20-2-29	1183	149.00	-	-	147.06	20-2-28
33	20-2-28	1182	-	-	147.06	139.76	20-2-25
34	20-2-25	1181	-	-	139.76	139.06	20-2-21
35	20-2-21	1180	-	-	139.06	137.06	20-2-17
36	20-2-17	1179	-	-	137.06	135.36	20-2-46
37	20-2-46	1192	-	133.05	135.36	133.60	20-2-05
38	20-2-39	1187	162.50	-	-	159.10	20-2-43
39	20-2-43	1191	-	155.70	159.10	-	20-2-38
40	24-4-01	1279	240.10	-	-	234.87	19-3-11
41	19-3-11	1109	-	-	234.87	231.83	19-3-10
42	19-3-10	1108	-	-	231.83	227.94	19-3-09
43	19-3-09	1107	-	-	227.94	225.16	19-3-08
44	19-3-08	1106	-	-	225.16	223.55	19-3-07
45	19-3-07	1105	-	-	223.55	221.50	19-3-05
46	19-3-05	1104	-	-	221.50	217.17	19-3-04
47	19-3-04	1103	-	-	217.17	214.25	19-3-36
48	19-3-36	1118	-	-	214.25	211.95	19-3-03
49	19-3-03	1102	-	-	211.95	209.97	19-3-37
50	19-3-37	1119	-	-	209.97	208.39	19-3-02
51	19-3-02	1101	-	-	208.39	206.91	19-3-01
52	19-3-01	1100	-	-	206.91	206.21	19-4-05
53	19-4-05	1128	-	199.80	206.21	-	19-4-04
54	19-4-22	1138	184.40	-	-	176.70	20-3-10
55	20-3-10	1200	-	-	176.70	173.80	20-3-08
56	20-3-08	1199	-	-	173.80	172.05	20-3-15
57	20-3-15	1202	-	-	172.05	170.30	20-3-06
58	20-3-06	1197	-	168.10	170.30	-	20-3-03
59	20-3-11	1201	-	139.40	140.51	-	20-3-10
60	20-4-35	1213	-	-	116.85	114.34	20-4-31
61	20-4-31	1213	-	110.00	114.34	-	20-4-24
62	21-2-06	1226	55.20	-	-	52.15	21-1-01
63	21-1-01	1217	-	49.10	52.15	-	21-1-02
64	20-4-36	1214	120.80	112.70	116.77	115.81	20-4-37
65	20-4-37	1215	112.70	111.34	115.81	113.74	20-4-24
66	20-4-24	1211	111.34	110.00	113.74	112.48	21-3-06
67	21-3-06	1236	110.00	109.10	112.48	111.01	21-3-07
68	21-3-07	1237	109.10	106.80	111.01	110.57	21-3-13
69	21-3-13	1243	106.80	105.90	110.57	108.65	21-3-08
70	21-3-08	1238	105.90	105.60	108.65	108.47	21-3-09
71	21-3-09	1239	105.90	105.60	108.47	107.94	21-3-28
72	21-3-28	1245	113.70	-	107.94	107.25	21-3-10
73	21-3-31	1248	110.74	-	-	107.25	21-3-10
74	21-3-10	1240	-	103.90	107.25	-	21-3-05
75	21-3-29	1246	116.31	105.60	116.31	107.94	21-3-28
76	21-4-02	1251	131.50	-	-	127.24	21-4-01
77	21-4-01	1250	-	119.60	127.24	-	21-3-12
78	27-2-03	1290	227.23	224.73	-	225.63	27-2-02

TABLE E-1

City of Sequim Modeling Assumptions Information

Edit No.	Upstream Manhole	InfoSEWER Pipe Number	IE_Up Given	IE_Dn Given	IE _Up Assumed	IE_Dn Assumed	Downstream Manhole
79	27-2-02	1289	224.63	225.63	225.63	224.63	27-2-01
80	27-2-01	1288	225.53	209.11	224.63	-	28-1-31
81	28-1-09	1309	213.90	-	-	200.90	28-1-04
82	28-1-04	1308	-	187.90	200.90	-	28-1-03
83	28-3-18	1332	358.52	427.08	427.08	389.70	28-2-11
84	28-2-11	1326	426.95	-	389.70	379.92	28-2-04
85	28-2-04	1323	-	375.85	379.92	375.85	28-2-03
86	28-2-03	1322	375.77	369.55	-	-	28-2-02
87	28-2-02	1321	369.50	-	-	278.50	28-2-01
88	28-2-01	1320	-	256.53	278.50	-	28-1-14
89	28-4-07	1342	238.10	-	-	221.28	28-2-09
90	28-2-09	1324	-	-	221.28	217.07	28-2-10
91	28-2-10	1325	-	175.26	217.07	-	28-2-26
92	28-3-56	1337	-	-	445.47	443.90	28-3-55
93	28-3-55	1336	-	-	443.90	442.39	28-3-54
94	28-3-54	1335	-	-	442.39	441.24	28-3-53
95	28-3-53	1334	-	-	441.24	436.12	28-3-52
96	28-3-52	1333	-	435.00	436.12	-	28-4-05
97	30-3-04	1402	382.23	-	-	376.00	30-3-03
98	30-3-03	1401	-	-	376.00	369.77	30-3-02
99	30-3-02	1400	-	-	369.77	363.54	30-3-01
100	30-3-01	1399	-	-	363.54	357.31	30-2-02
101	30-2-02	1383	-	350.60	357.31	-	30-2-01
102	29-2-43	1355	218.50	214.35	221.46	216.57	30-1-20
103	30-1-20	1379	214.35	214.25	216.57	215.67	30-1-41
104	30-1-41	1380	214.35	214.25	215.67	214.25	30-1-19
105	30-2-16	1390	286.30	-	-	281.85	30-2-15
106	30-2-15	1389	-	277.40	281.85	-	30-2-32
107		1251	21-4-02	21-4-01	21-4-02	G&OAdd1	
108		1250	21-4-01	21-3-12	G&OAdd1	21-3-12	
109		1228	21-2-11	21-2-07	21-2-11	21-2-08	
110					21-2-08	21-2-07	
111		1157	19-4-51	19-4-43	19-4-51	G&PAdd2	
112		1151	19-4-45	19-4-43	19-4-45	G&PAdd2	
113		1149	19-4-43	19-4-40	G&PAdd2	19-4-40	
114	30-2-25	1397	-	257.46	258.26	257.46	19-2-37
115	30-2-11	1384	-	-	259.53	258.26	30-2-25
116	30-2-12	1385	-	-	260.54	259.53	30-2-11
117	30-2-13	1386	-	-	261.40	260.54	30-2-12
118	19-3-28	1112	89.64	-	262.47	261.40	30-2-13
119	19-3-30	1113	92.76	89.64	265.59	262.47	19-3-28
120	19-3-31	1114	93.30	92.76	265.99	265.59	19-3-30
121	19-3-32	1115	94.89	93.30	267.58	265.99	19-3-31
122	24-4-27	1285	94.89	94.89	269.24	267.58	19-3-32
123	24-4-26	1284	99.00	94.89	270.16	269.24	24-4-27
124	24-4-25	1283	104.25	99.00	271.76	270.16	24-4-26
125	24-4-24	1282	106.49	104.25	272.95	271.76	24-4-25
126	24-4-34	1286	107.98	106.50	274.43	272.95	24-4-24
127	24-4-39	1287	111.10	108.34	277.20	274.43	24-4-34
128	19-4-45	1151	236.70	230.60	236.70	232.20	G&OAdd2
129	19-4-07	1130	187.00	-	-	180.32	19-4-06
130	19-4-06	1129	-	-	180.32	179.32	20-3-07
131	20-3-07	1198	-	170.30	179.32	-	20-3-06
132	24-1-14	1274	242.90	-	-	241.02	24-1-01
133	24-1-01	1266	-	-	241.02	237.95	24-1-02
134	24-1-02	1267	-	-	237.95	235.02	24-1-03
135	24-1-03	1268	-	-	235.02	233.32	24-1-13
136	24-1-13	1273	-	-	233.32	231.12	24-1-05
137	24-1-05	1269	-	-	231.12	228.02	24-1-26
138	24-1-26	1277	-	-	228.02	225.60	24-1-06
139	24-1-06	1270	-	197.90	225.60	224.76	24-1-07
140	24-1-07	1271	197.90	196.97	224.76	221.80	24-1-08
141	24-1-08	1272	196.97	196.31	221.80	220.84	24-2-54
142	24-2-54	1278	196.31	-	220.84	217.36	19-2-56
143	19-2-56	1096	-	-	217.36	213.56	19-2-10
144	19-2-10	1065	-	-	213.56	212.41	19-2-11
145	19-2-11	1066	-	-	212.41	209.94	19-2-12
146	19-2-12	1067	-	-	209.94	208.20	19-2-14
147	19-2-14	1068	-	202.60	208.20	206.73	19-2-15
148	19-2-15	1069	202.60	-	206.73	202.79	19-2-16
149	19-2-16	1070	-	-	202.79	200.00	19-2-54
150	19-2-54	1095	-	-	200.00	198.99	19-2-59

TABLE E-1

City of Sequim Modeling Assumptions Information

Edit No.	Upstream Manhole	InfoSEWER Pipe Number	IE_Up Given	IE_Dn Given	IE _Up Assumed	IE_Dn Assumed	Downstream Manhole
151	19-2-59	1097	-	197.10	198.99	-	19-2-17
152	19-2-38	1088	-	-	197.49	196.30	19-2-24
153	19-2-24	1078	-	-	196.30	195.10	19-2-22
154	19-2-22	1076	-	-	195.10	194.88	19-2-23
155	19-2-23	1077	-	-	194.88	193.83	19-2-21
156	19-2-21	1075	-	-	193.83	193.04	19-2-20
157	19-2-20	1074	-	-	193.04	192.84	19-2-19
158	19-2-19	1073	-	-	192.84	191.90	19-2-18
159	19-2-18	1072	191.90	187.70	-	-	19-1-25
160	28-1-19	1316	185.22	108.94	-	178.94	21-4-24
161	21-4-24	1265	108.94	179.40	178.94	178.40	21-4-21
162	21-4-21	1264	179.40	177.04	178.40	-	21-4-20
163	21-3-03	1233	75.00	68.80	-	-	21-3-02
164	21-3-02	1232	-	-	68.80	67.48	21-3-01
165	21-3-01	1231	-	-	67.48	65.37	21-2-11
166	21-2-11	1228	-	-	65.37	60.45	21-2-08
167	21-2-08	G&OPIPE1	-	-	60.45	59.15	21-2-07
168	21-2-07	1227	-	-	59.15	58.48	21-1-10
169	21-1-10	1222	-	-	58.48	55.88	21-1-09
170	21-1-09	1221	-	-	55.88	54.05	21-1-08
171	21-1-08	1220	-	-	54.05	49.10	21-1-06
172	21-1-06	1219	49.10	43.60	-	-	WRFHEADWORKS
173	21-2-21	1229	-	-	63.31	60.45	21-2-08
174	20-1-07	1159	112.60	-	-	96.96	20-1-06
175	20-1-06	1158	-	-	96.96	96.28	21-2-01
176	21-2-01	1223	-	-	96.28	90.14	21-2-02
177	21-2-02	1224	-	76.90	90.14	-	21-2-03
178	21-2-03	1225	76.90	-	-	76.40	21-2-22
179	21-2-22	1230	-	55.20	76.40	-	21-2-06
180		975	107.84	107.00	-	-	
181		976	116.90	103.84	107.00	-	

TABLE E-2

City of Sequim 2012 Parcel and Zoning Designation Information

	RESIDENTIAL			COMMERCIAL			MULTIFAMILY		SCHOOL		MIXED USE / PUBLIC FAC			PARK / OS / AG	
BASIN #	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Units	Acres	# of Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels
1	60.7	268	170	70.4	25	12	16.8	162	0.0	0	0.1	1	0	0.0	0
2	0.0	0	0	26.4	0	0	0.0	0	0.0	0	117.1	0	0	0.0	0
3	39.2	79	38	9.2	7	2	0.0	0	0.0	0	0.0	0	0	0.0	0
4	220.2	120	72	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
5	86.3	226	6	14.8	18	2	0.0	0	0.0	0	0.0	0	0	0.0	0
6	17.3	175	41	26.8	12	9	9.0	91	0.0	0	0.0	0	0	0.3	1
7	0.0	0	0	0.3	1	1	13.1	55	0.0	0	0.0	0	0	0.0	0
8	7.1	48	0	0.0	1	0	5.0	34	0.0	0	1.0	1	0	0.0	0
9	0.0	0	0	15.4	11	0	3.0	16	0.0	0	4.0	16	0	0.0	0
10	0.0	0	0	25.0	41	2	7.3	71	0.0	0	3.2	15	0	0.0	0
11	13.1	71	3	0.0	1	0	8.3	89	0.0	0	2.8	11	2	0.0	0
12	4.6	13	2	0.0	0	0	0.0	0	0.0	0	19.6	2	2	0.0	0
13	21.8	64	5	0.0	1	0	7.0	12	0.0	0	13.3	8	0	0.4	1
14	2.0	8	1	0.0	0	0	0.0	0	0.0	0	5.5	14	4	0.0	0
15	6.4	24	2	1.5	1	0	55.9	42	0.0	0	1.0	3	3	0.0	0
16	66.1	56	5	0.0	0	0	0.0	0	0.0	0	10.1	1	0	0.0	0
17	36.6	38	2	0.0	0	0	0.0	0	0.0	0	0.0	0	0	7.6	1
18	7.3	40	27	0.0	0	0	34.6	129	0.0	0	16.8	7	1	0.0	0
19	95.1	147	50	0.0	0	0	23.3	36	0.0	0	28.1	24	13	0.0	0
20	0.0	0	0	0.0	0	0	9.7	154	0.0	0	20.4	43	4	0.0	0
21	7.1	46	0	0.3	1	0	2.5	16	0.0	0	0.5	2	0	0.0	0
22	0.0	0	0	4.9	20	0	1.7	62	0.0	0	3.4	13	3	0.0	0
23	0.0	0	0	2.3	13	2	8.1	7	0.0	0	0.0	0	0	0.0	0
24	12.1	69	2	0.0	0	0	1.9	3	0.0	0	0.0	0	0	0.0	0
25	6.6	36	1	0.0	1	0	0.7	4	5.8	10	2.3	7	1	0.0	0
26	2.4	1	1	9.3	19	3	0.0	0	54.2	6	5.0	1	0	0.0	0
27	22.2	44	0	25.0	9	4	0.0	0	0.0	0	0.0	0	0	0.0	0
28	51.4	124	20	5.0	1	0	0.0	0	0.0	0	0.1	1	0	0.0	0
29	68.8	66	15	6.7	6	0	12.5	12	0.0	0	0.0	0	0	0.0	0
30	4.5	2	0	0.5	2	0	0.0	0	7.3	1	4.3	2	0	0.9	1
31	0.0	0	0	5.5	19	1	3.3	62	0.0	0	2.7	5	2	0.0	0
32	5.2	22	0	1.5	2	0	0.9	4	0.0	0	0.0	0	0	0.0	0
33	5.1	24	0	2.4	5	0	0.0	0	0.0	0	0.0	0	0	0.0	0
34	5.6	25	1	0.6	1	0	0.0	0	0.0	0	0.9	3	0	0.0	0
35	5.6	24	0	0.0	0	0	0.0	0	0.0	0	1.2	3	0	0.0	0
36	5.6	24	0	0.0	0	0	0.0	0	0.0	0	1.2	2	0	0.0	0
37	4.6	36	0	11.8	10	0	4.1	32	0.0	0	19.1	43	11	0.0	0
38	34.5	5	4	46.9	42	9	0.0	0	0.0	0	76.2	7	7	0.0	0
39	1.1	5	0	54.4	20	12	29.3	138	0.0	0	0.0	0	0	0.0	0
40	118.2	133	43	0.0	0	0	0.0	0	0.0	0	9.1	2	2	0.0	0
41	27.7	2	1	0.0	0	0	0.0	0	0.0	0	15.4	2	1	40.3	1
42	24.6	80	22	1.0	4	0	0.0	0	0.0	0	0.0	0	0	0.0	0
43	10.7	29	3	0.0	0	0	0.0	0	0.0	0	0.2	1	0	0.0	0
44	12.2	45	3	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
45	6.7	32	3	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
46	7.4	32	1	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
47	7.4	32	1	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
48	7.6	32	2	0.0	0	0	0.0	0	0.0	0	0.0	1	0	0.0	0
49	4.4	17	1	3.7	2	2	1.0	4	0.0	0	0.0	1	0	0.0	0
50	15.3	1	1	0.0	0	0	0.0	0	0.0	0	0.1	1	0	41.8	2
51	57.3	52	39	0.0	0	0	0.0	0	0.0	0	45.5	15	12	9.1	1
52	8.7	62	46	4.2	32	32	0.0	0	0.0	0	0.0	1	0	0.0	0
53	19.8	23	7	12.1	6	1	0.0	0	0.0	0	4.2	2	1	0.0	0
54	236.2	172	139	0.0	0	0	0.0	0	0.0	0	0.2	1	1	43.0	1
55	4.5	21	4	0.0	0	0	0.0	0	0.0	0	1.3	2	2	0.0	0
56	11.8	54	51	0.0	0	0	0.0	0	0.0	0	1.1	2	1	0.0	0
57	49.3	14	10	10.4	4	1	0.0	0	0.0	0	8.7	6	5	0.0	0
58	240.1	369	304	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
59	20.3	5	4	0.0	0	0	0.0	0	0.0	0	22.9	5	5	0.0	0
60	0.0	0	0	0.0	0	0	0.0	0	0.0	0	40.5	8	8	0.0	0
61	0.0	0	0	0.0	0	0	0.0	0	0.0	0	7.8	2	0	0.0	0
62	510.2	378	50	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
63	160.2	140	35	0.0	0	0	0.0	0	0.0	0	0.0	0	0	0.0	0
TOTAL	**2,486.8**	**3,655**	**1,238**	**398.4**	**338**	**95**	**259.0**	**1,235**	**67.2**	**17**	**516.5**	**287**	**91**	**143.4**	**9**

TOTAL Acreage	**3,804**
TOTAL Parcels	**4,306**
Total Vacant Parcels	**1,424**

TABLE E-3

City of Sequim 2018 Parcel and Zoning Designation Information

	RESIDENTIAL			COMMERCIAL			MULTIFAMILY		SCHOOL		MIXED USE / PUBLIC FAC			PARK / OS / AG	
BASIN #	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Units	Acres	# of Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels
1	85.39	286	135	70.41	25	9	16.79	162	0	0	0.14	1	0	0	0
2	0.00	0	0	26.41	0	0	0.00	0	0	0	117.1	0	0	0	0
3	59.50	106	32	9.24	7	0	0.00	0	0	0	0	0	0	0	0
4	256.88	149	60	0.03	0	0	0.00	0	0	0	0	0	0	0	0
5	99.28	240	5	14.76	18	0	0.00	0	0	0	0	0	0	0	0
6	20.89	176	32	26.82	12	7	9.00	91	0	0	0	0	0	0.33	1
7	0.00	0	0	0.27	1	0	13.12	55	0	0	0	0	0	0	0
8	7.08	48	0	0.02	1	0	5.02	34	0	0	0.95	1	0	0	0
9	0.00	0	0	15.36	11	0	3.02	16	0	0	3.99	16	0	0	0
10	0.00	0	0	25.01	41	0	7.30	71	0	0	3.15	15	0	0	0
11	13.13	71	0	0.03	1	0	8.28	89	0	0	2.81	11	0	0	0
12	4.64	13	0	0.00	0	0	0.00	0	0	0	19.56	2	0	0	0
13	21.83	64	5	0.02	1	0	6.97	12	0	0	13.25	8	0	0.42	1
14	2.02	8	0	0.00	0	0	0.00	0	0	0	5.54	14	0	0	0
15	6.35	24	0	1.51	1	0	55.92	42	0	0	1.02	3	0	0	0
16	72.62	59	5	0.00	0	0	0.00	0	0	0	10.09	1	0	0	0
17	80.79	51	17	0.00	0	0	0.00	0	0	0	0	0	0	7.62	1
18	7.31	40	27	0.00	0	0	34.62	129	0	0	16.81	7	0	0	0
19	95.13	147	50	0.00	0	0	23.30	36	0	0	28.08	24	10	0	0
20	0.00	0	0	0.00	0	0	9.73	154	0	0	20.4	43	0	0	0
21	7.06	46	0	0.29	1	0	2.45	16	0	0	0.5	2	0	0	0
22	0.00	0	0	4.92	20	0	1.71	62	0	0	3.38	13	0	0	0
23	0.00	0	0	2.30	13	0	8.14	7	0	0	0	0	0	0	0
24	12.07	69	0	0.00	0	0	1.85	3	0	0	0	0	0	0	0
25	6.59	36	0	0.01	1	0	0.73	4	5.79	10	2.27	7	0	0	0
26	2.36	1	0	9.26	19	0	0	0	54.18	6	4.96	1	0	0	0
27	22.22	44	0	24.96	9	0	0	0	0	0	0	0	0	0	0
28	73.57	161	18	5.02	1	0	0	0	0	0	0.05	1	0	0	0
29	94.61	95	17	6.74	6	0	9.13	12	0	0	0	0	0	0	0
30	5.98	3	0	0.49	2	0	0	0	7.25	1	4.32	2	0	0.89	1
31	0.00	0	0	5.54	19	0	3.27	62	0	0	2.67	5	0	0	0
32	5.19	22	0	1.5	2	0	0.94	4	0	0	0	0	0	0	0
33	5.14	24	0	2.4	5	0	0	0	0	0	0	0	0	0	0
34	5.60	25	0	0.62	1	0	0	0	0	0	0.85	3	0	0	0
35	5.56	24	0	0	0	0	0	0	0	0	1.18	3	0	0	0
36	5.59	24	0	0	0	0	0	0	0	0	1.2	2	0	0	0
37	4.58	36	0	11.82	10	0	4.08	32	0	0	19.12	43	8	0	0
38	41.07	10	1	46.85	42	0	0	0	0	0	76.18	7	5	0	0
39	1.06	5	0	54.43	20	9	29.31	138	0	0	0	0	0	0	0
40	125.78	135	82	0.00	0	0	0	0	0	0	9.08	2	0	0	0
41	27.67	2	0	0.00	0	0	0	0	0	0	15.43	2	0	40.28	1
42	32.66	84	17	0.99	4	0	0	0	0	0	0	0	0	0	0
43	10.65	29	0	0.00	0	0	0	0	0	0	0.15	1	0	0	0
44	12.22	45	0	0.00	0	0	0	0	0	0	0	0	0	0	0
45	6.74	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
46	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
47	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
48	7.58	32	0	0.00	0	0	0	0	0	0	0.01	1	0	0	0
49	4.36	17	0	3.74	2	0	1.02	4	0	0	0.03	1	0	0	0
50	25.35	6	1	0.00	0	0	0	0	0	0	0.05	1	0	41.75	2
51	57.28	52	39	0.00	0	0	0	0	0	0	45.45	15	9	9.06	1
52	8.69	62	46	4.16	32	24	0	0	0	0	0.01	1	0	0	0
53	19.82	23	7	12.08	6	0	0	0	0	0	4.21	2	0	0	0
54	236.22	172	139	0.00	0	0	0	0	0	0	0.17	1	0	43.01	1
55	4.47	21	4	0.00	0	0	0	0	0	0	1.3	2	0	0	0
56	11.80	54	51	0.00	0	0	0	0	0	0	1.12	2	0	0	0
57	49.31	14	10	10.38	4	0	0	0	0	0	8.74	6	4	0	0
58	252.42	377	230	0.00	0	0	0	0	0	0	0	0	0	0	0
59	20.31	5	0	0.00	0	0	0	0	0	0	22.86	5	4	0	0
60	0.00	0	0	0.00	0	0	0	0	0	0	40.53	8	6	0	0
61	38.80	4	2	0.00	0	0	0	0	0	0	7.78	2	0	0	0
62	510.20	378	38	0.00	0	0	0	0	0	0	0	0	0	0	0
63	160.23	140	26	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**2,768.5**	**3,852**	**1,094**	**398.4**	**338**	**49**	**255.7**	**1,235**	**67.2**	**17**	**516.5**	**287**	**45.8**	**143.4**	**9**

TOTAL Acreage	**4,082**
TOTAL Parcels	**4,503**
Total Vacant Parcels	**1,188**

TABLE E-4

City of Sequim 2032 Parcel and Zoning Designation Information

	RESIDENTIAL			COMMERCIAL			MULTIFAMILY		SCHOOL		MIXED USE / PUBLIC FAC			PARK / OS / AG	
BASIN #	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Units	Acres	# of Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels
1	159.51	339	42	70.41	25	2	16.79	162	0	0	0.14	1	0	0	0
2	0.00	0	0	26.41	0	0	0.00	0	0	0	117.1	0	0	0	0
3	120.34	188	11	9.24	7	0	0.00	0	0	0	0	0	0	0	0
4	366.83	236	20	0.03	0	0	0.00	0	0	0	0	0	0	0	0
5	138.12	282	0	14.76	18	0	0.00	0	0	0	0	0	0	0	0
6	31.65	177	8	26.82	12	0	9.00	91	0	0	0	0	0	0.33	1
7	0.00	0	0	0.27	1	0	13.12	55	0	0	0	0	0	0	0
8	7.08	48	0	0.02	1	0	5.02	34	0	0	0.95	1	0	0	0
9	0.00	0	0	15.36	11	0	3.02	16	0	0	3.99	16	0	0	0
10	0.00	0	0	25.01	41	0	7.30	71	0	0	3.15	15	0	0	0
11	13.13	71	0	0.03	1	0	8.28	89	0	0	2.81	11	0	0	0
12	4.64	13	0	0.00	0	0	0.00	0	0	0	19.56	2	0	0	0
13	21.83	64	0	0.02	1	0	6.97	12	0	0	13.25	8	0	0.42	1
14	2.02	8	0	0.00	0	0	0.00	0	0	0	5.54	14	0	0	0
15	6.35	24	0	1.51	1	0	55.92	42	0	0	1.02	3	0	0	0
16	92.06	67	0	0.00	0	0	0.00	0	0	0	10.09	1	0	0	0
17	213.52	89	0	0.00	0	0	0.00	0	0	0	0	0	0	7.62	1
18	7.31	40	27	0.00	0	0	34.62	129	0	0	16.81	7	0	0	0
19	95.13	147	50	0.00	0	0	23.30	36	0	0	28.08	24	3	0	0
20	0.00	0	0	0.00	0	0	9.73	154	0	0	20.4	43	0	0	0
21	7.06	46	0	0.29	1	0	2.45	16	0	0	0.5	2	0	0	0
22	0.00	0	0	4.92	20	0	1.71	62	0	0	3.38	13	0	0	0
23	0	0	0	2.30	13	0	8.14	7	0	0	0	0	0	0	0
24	12.07	69	0	0.00	0	0	1.85	3	0	0	0	0	0	0	0
25	6.59	36	0	0.01	1	0	0.73	4	5.79	10	2.27	7	0	0	0
26	2.36	1	0	9.26	19	0	0	0	54.18	6	4.96	1	0	0	0
27	22.22	44	0	24.96	9	0	0	0	0	0	0	0	0	0	0
28	140.02	271	8	5.02	1	0	0	0	0	0	0.05	1	0	0	0
29	166.23	180	9	6.74	6	0	5.06	12	0	0	0	0	0	0	0
30	10.07	5	0	0.49	2	0	0	0	7.25	1	4.32	2	0	0.89	1
31	0.00	0	0	5.54	19	0	3.27	62	0	0	2.67	5	0	0	0
32	5.19	22	0	1.5	2	0	0.94	4	0	0	0	0	0	0	0
33	5.14	24	0	2.4	5	0	0	0	0	0	0	0	0	0	0
34	5.60	25	0	0.62	1	0	0	0	0	0	0.85	3	0	0	0
35	5.56	24	0	0	0	0	0	0	0	0	1.18	3	0	0	0
36	5.59	24	0	0	0	0	0	0	0	0	1.2	2	0	0	0
37	4.58	36	0	11.82	10	0	4.08	32	0	0	19.12	43	2	0	0
38	60.82	25	0	46.85	42	0	0	0	0	0	76.18	7	0	0	0
39	1.06	5	0	54.43	20	2	29.31	138	0	0	0	0	0	0	0
40	148.51	140	10	0.00	0	0	0	0	0	0	9.08	2	0	0	0
41	27.67	2	0	0.00	0	0	0	0	0	0	15.43	2	0	40.28	1
42	56.74	97	5	0.99	4	0	0	0	0	0	0	0	0	0	0
43	10.65	29	0	0.00	0	0	0	0	0	0	0.15	1	0	0	0
44	12.22	45	0	0.00	0	0	0	0	0	0	0	0	0	0	0
45	6.74	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
46	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
47	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
48	7.58	32	0	0.00	0	0	0	0	0	0	0.01	1	0	0	0
49	4.36	17	0	3.74	2	0	1.02	4	0	0	0.03	1	0	0	0
50	55.57	21	0	0.00	0	0	0	0	0	0	0.05	1	0	41.75	2
51	57.28	52	39	0.00	0	0	0	0	0	0	45.45	15	2	9.06	1
52	8.69	62	46	4.16	32	6	0	0	0	0	0.01	1	0	0	0
53	19.82	23	0	12.08	6	0	0	0	0	0	4.21	2	0	0	0
54	236.22	172	139	0.00	0	0	0	0	0	0	0.17	1	0	43.01	1
55	4.47	21	4.0	0.00	0	0	0	0	0	0	1.3	2	0	0	0
56	11.8	54	51	0.00	0	0	0	0	0	0	1.12	2	0	0	0
57	49.31	14	10	10.38	4	0	0	0	0	0	8.74	6	0	0	0
58	289.24	400	63	0.00	0	0	0	0	0	0	0	0	0	0	0
59	20.31	5	0	0.00	0	0	0	0	0	0	22.86	5	0	0	0
60	0	0	0	0.00	0	0	0	0	0	0	40.53	8	0	0	0
61	155.2	14	0	0.00	0	0	0	0	0	0	7.78	2	0	0	0
62	510.2	378	10	0.00	0	0	0	0	0	0	0	0	0	0	0
63	160.23	140	7	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**3,607.3**	**4,444**	**559**	**398.4**	**338**	**11**	**251.6**	**1,235**	**67.2**	**17**	**516.5**	**287**	**7**	**143.4**	**9**

TOTAL Acreage	**4,917**
TOTAL Parcels	**5,095**
Total Vacant Parcels	**578**

TABLE E-5

City of Sequim Buildout Parcel and Zoning Designation Information

	RESIDENTIAL			COMMERCIAL			MULTIFAMILY		SCHOOL		MIXED USE / PUBLIC FAC			PARK / OS / AG	
BASIN #	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Units	Acres	# of Parcels	Acres	# of Parcels	Vacant Parcels	Acres	# of Parcels
1	159.51	339	0	70.41	25	0	16.79	162	0	0	0.14	1	0	0	0
2	0.00	0	0	26.41	0	0	0.00	0	0	0	117.1	0	0	0	0
3	120.34	188	0	9.24	7	0	0.00	0	0	0	0	0	0	0	0
4	366.83	236	0	0.03	0	0	0.00	0	0	0	0	0	0	0	0
5	138.12	282	0	14.76	18	0	0.00	0	0	0	0	0	0	0	0
6	31.65	177	0	26.82	12	0	9.00	91	0	0	0	0	0	0.33	1
7	0.00	0	0	0.27	1	0	13.12	55	0	0	0	0	0	0	0
8	7.08	48	0	0.02	1	0	5.02	34	0	0	0.95	1	0	0	0
9	0.00	0	0	15.36	11	0	3.02	16	0	0	3.99	16	0	0	0
10	0.00	0	0	25.01	41	0	7.30	71	0	0	3.15	15	0	0	0
11	13.13	71	0	0.03	1	0	8.28	89	0	0	2.81	11	0	0	0
12	4.64	13	0	0.00	0	0	0.00	0	0	0	19.56	2	0	0	0
13	21.83	64	0	0.02	1	0	6.97	12	0	0	13.25	8	0	0.42	1
14	2.02	8	0	0.00	0	0	0.00	0	0	0	5.54	14	0	0	0
15	6.35	24	0	1.51	1	0	55.92	42	0	0	1.02	3	0	0	0
16	92.06	67	0	0.00	0	0	0.00	0	0	0	10.09	1	0	0	0
17	213.52	89	0	0.00	0	0	0.00	0	0	0	0	0	0	7.62	1
18	7.31	40	0	0.00	0	0	34.62	129	0	0	16.81	7	0	0	0
19	95.13	147	0	0.00	0	0	23.30	36	0	0	28.08	24	0	0	0
20	0.00	0	0	0.00	0	0	9.73	154	0	0	20.4	43	0	0	0
21	7.06	46	0	0.29	1	0	2.45	16	0	0	0.5	2	0	0	0
22	0.00	0	0	4.92	20	0	1.71	62	0	0	3.38	13	0	0	0
23	0	0	0	2.30	13	0	8.14	7	0	0	0	0	0	0	0
24	12.07	69	0	0.00	0	0	1.85	3	0	0	0	0	0	0	0
25	6.59	36	0	0.01	1	0	0.73	4	5.79	10	2.27	7	0	0	0
26	2.36	1	0	9.26	19	0	0	0	54.18	6	4.96	1	0	0	0
27	22.22	44	0	24.96	9	0	0	0	0	0	0	0	0	0	0
28	140.02	271	0	5.02	1	0	0	0	0	0	0.05	1	0	0	0
29	166.23	180	0	6.74	6	0	5.06	12	0	0	0	0	0	0	0
30	10.47	5	0	0.49	2	0	0	0	7.25	1	4.32	2	0	0.89	1
31	0.00	0	0	5.54	19	0	3.27	62	0	0	2.67	5	0	0	0
32	5.19	22	0	1.5	2	0	0.94	4	0	0	0	0	0	0	0
33	5.14	24	0	2.4	5	0	0	0	0	0	0	0	0	0	0
34	5.60	25	0	0.62	1	0	0	0	0	0	0.85	3	0	0	0
35	5.56	24	0	0	0	0	0	0	0	0	1.18	3	0	0	0
36	5.59	24	0	0	0	0	0	0	0	0	1.2	2	0	0	0
37	4.58	36	0	11.82	10	0	4.08	32	0	0	19.12	43	0	0	0
38	60.82	25	0	46.85	42	0	0	0	0	0	76.18	7	0	0	0
39	1.06	5	0	54.43	20	0	29.31	138	0	0	0	0	0	0	0
40	148.51	140	0	0.00	0	0	0	0	0	0	9.08	2	0	0	0
41	27.67	2	0	0.00	0	0	0	0	0	0	15.43	2	0	40.28	1
42	56.74	97	0	0.99	4	0	0	0	0	0	0	0	0	0	0
43	10.65	29	0	0.00	0	0	0	0	0	0	0.15	1	0	0	0
44	12.22	45	0	0.00	0	0	0	0	0	0	0	0	0	0	0
45	6.74	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
46	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
47	7.43	32	0	0.00	0	0	0	0	0	0	0	0	0	0	0
48	7.58	32	0	0.00	0	0	0	0	0	0	0.01	1	0	0	0
49	4.36	17	0	3.74	2	0	1.02	4	0	0	0.03	1	0	0	0
50	55.57	21	0	0.00	0	0	0	0	0	0	0.05	1	0	41.75	2
51	57.28	52	0	0.00	0	0	0	0	0	0	45.45	15	0	9.06	1
52	8.69	62	0	4.16	32	0	0	0	0	0	0.01	1	0	0	0
53	19.82	23	0	12.08	6	0	0	0	0	0	4.21	2	0	0	0
54	236.22	172	0	0.00	0	0	0	0	0	0	0.17	1	0	43.01	1
55	4.47	21	0	0.00	0	0	0	0	0	0	1.3	2	0	0	0
56	11.8	54	0	0.00	0	0	0	0	0	0	1.12	2	0	0	0
57	49.31	14	0	10.38	4	0	0	0	0	0	8.74	6	0	0	0
58	289.24	400	0	0.00	0	0	0	0	0	0	0	0	0	0	0
59	20.31	5	0	0.00	0	0	0	0	0	0	22.86	5	0	0	0
60	0	0	0	0.00	0	0	0	0	0	0	40.53	8	0	0	0
61	155.2	14	0	0.00	0	0	0	0	0	0	7.78	2	0	0	0
62	510.2	378	0	0.00	0	0	0	0	0	0	0	0	0	0	0
63	160.23	140	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	**3,607.7**	**4,444**	**0**	**398.4**	**338**	**0**	**251.6**	**1,235**	**67.2**	**17**	**516.5**	**287**	**0**	**143.4**	**9**

TOTAL Acreage	**4,918**
TOTAL Parcels	**5,095**
Total Vacant Parcels	**0**

TABLE E-6

City of Sequim Existing Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
1	24-1-16	98	98	7.5	15.9	61	21.4	37.3	25	70	19.0	75.6	162	144	7.7	16.3	17	5.9	22.2	0	0	0	0.0	**135.2**
2	24-4-03	0	0	0.0	0.0	0	0.0	0.0	0	26	20.0	41.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**41.3**
3	24-4-39	41	41	3.1	6.6	39	13.8	20.5	7	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**27.9**
4	30-2-23	48	48	3.7	7.8	220	77.7	85.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**85.5**
5	18-3-10	220	220	16.8	35.6	86	30.5	66.1	18	15	0.0	11.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**78.0**
6	19-2-71	134	134	10.2	21.7	17	6.1	27.8	12	27	0.0	21.6	91	81	4.3	9.2	9	3.2	12.3	0	0	0	0.0	**61.7**
7	19-2-36	0	0	0.0	0.0	0	0.0	0.0	1	0	0.0	0.2	55	49	2.6	5.5	13	4.6	10.2	0	0	0	0.0	**10.4**
8	19-2-38	48	48	3.7	7.8	7	2.5	10.3	1	0	0.0	0.0	34	30	1.6	3.4	5	1.8	5.2	0	0	0	0.0	**15.5** [(1)]
9	19-2-15	0	0	0.0	0.0	0	0.0	0.0	11	15	0.0	12.4	16	14	0.8	1.6	3	1.1	2.7	0	0	0	0.0	**15.0**
10	19-3-04	0	0	0.0	0.0	0	0.0	0.0	41	25	0.0	20.1	71	63	3.4	7.1	7	2.6	9.7	0	0	0	0.0	**29.8**
11	19-4-11	68	68	5.2	11.0	13	4.6	15.6	1	0	0.0	0.0	89	79	4.2	9.0	8	2.9	11.9	0	0	0	0.0	**27.5**
12	19-3-47	11	11	0.8	1.8	5	1.6	3.4	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**3.4**
13	19-3-47	59	59	4.5	9.6	22	7.7	17.3	1	0	0.0	0.0	12	11	0.6	1.2	7	2.5	3.7	0	0	0	0.0	**20.9**
14	19-4-40	7	7	0.5	1.1	2	0.7	1.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**1.8**
15	30-2-12	22	22	1.7	3.6	6	2.2	5.8	1	2	0.0	1.2	42	37	2.0	4.2	56	19.7	24.0	0	0	0	0.0	**31.0**
16	30-3-07	51	51	3.9	8.3	66	23.3	31.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**31.6**
17	30-4-03	36	36	2.8	5.8	37	12.9	18.7	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**18.7**
18	30-1-14	13	13	1.0	2.1	7	2.6	4.7	0	0	0.0	0.0	129	114	6.1	13.0	35	12.2	25.2	0	0	0	0.0	**29.9**
19	29-2-43	97	97	7.4	15.7	95	33.6	49.3	0	0	0.0	0.0	36	32	1.7	3.6	23	8.2	11.8	0	0	0	0.0	**61.1**
20	19-4-33	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	154	137	7.3	15.5	10	3.4	18.9	0	0	0	0.0	**18.9**
21	20-3-08	46	46	3.5	7.5	7	2.5	9.9	1	0	0.0	0.2	16	14	0.8	1.6	2	0.9	2.5	0	0	0	0.0	**12.7**
22	19-1-33	0	0	0.0	0.0	0	0.0	0.0	20	5	0.9	4.9	62	55	2.9	6.2	2	0.6	6.8	0	0	0	0.0	**11.7**
23	19-1-29	0	0	0.0	0.0	0	0.0	0.0	13	2	0.0	1.9	7	6	0.3	0.7	8	2.9	3.6	0	0	0	0.0	**5.4**
24	19-2-18	67	67	5.1	10.9	12	4.3	15.1	0	0	0.0	0.0	3	3	0.1	0.3	2	0.7	1.0	0	0	0	0.0	**16.1**
25	19-1-21	35	35	2.7	5.7	7	2.3	8.0	1	0	0.0	0.0	4	4	0.2	0.4	1	0.3	0.7	175	10	6	3.1	**11.8**
26	19-1-12	0	0	0.0	0.0	2	0.8	0.8	19	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	2,355	6	54	39.8	**48.1**
27	18-3-10	44	44	3.4	7.1	22	7.8	15.0	9	25	0.0	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**35.0**
28	18-1-08	104	104	7.9	16.9	51	18.1	35.0	1	5	0.0	4.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**39.0**
29	18-4-27	51	51	3.9	8.3	69	24.3	32.5	6	7	0.0	5.4	12	11	0.6	1.2	12	4.4	5.6	0	0	0	0.0	**43.5**
30	19-1-15	2	2	0.2	0.3	4	1.6	1.9	2	0	0.0	0.4	0	0	0.0	0.0	0	0.0	0.0	0	1	0	0.0	**2.3**
31	20-2-42	0	0	0.0	0.0	0	0.0	0.0	19	6	0.0	4.5	62	55	2.9	6.2	3	1.2	7.4	0	0	0	0.0	**11.8**
32	20-2-34	22	22	1.7	3.6	5	1.8	5.4	2	2	0.0	1.2	4	4	0.2	0.4	1	0.3	0.7	0	0	0	0.0	**7.3**
33	20-2-32	24	24	1.8	3.9	5	1.8	5.7	5	2	0.0	1.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
34	20-2-29	24	24	1.8	3.9	6	2.0	5.9	1	1	0.0	0.5	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**6.4**

TABLE E-6

City of Sequim Existing Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
35	20-2-25	24	24	1.8	3.9	6	2.0	5.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**5.8**
36	20-2-17	24	24	1.8	3.9	6	2.0	5.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**5.9**
37	20-3-11	36	36	2.8	5.8	5	1.6	7.5	10	12	0.0	9.5	32	28	1.5	3.2	4	1.4	4.7	0	0	0	0.0	**21.6**
38	20-4-17	1	1	0.1	0.2	34	12.2	12.3	42	47	2.5	40.2	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**52.5**
39	20-4-35	5	5	0.4	0.8	1	0.4	1.2	20	54	0.0	43.8	138	122	6.5	13.9	29	0.0	13.9	0	0	0	0.0	**58.9**
40	29-2-43	90	90	6.9	14.6	118	41.7	56.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**56.3**
41	17-3-02	1	1	0.1	0.2	28	9.8	9.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.9**
42	20-2-34	58	58	4.4	9.4	25	8.7	18.1	4	1	0.0	0.8	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**18.9**
43	17-4-01	26	26	2.0	4.2	11	3.8	8.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.0**
44	20-2-04	42	42	3.2	6.8	12	4.3	11.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**11.1**
45	20-1-20	29	29	2.2	4.7	7	2.4	7.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.1**
46	20-1-26	31	31	2.4	5.0	7	2.6	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
47	20-1-30	31	31	2.4	5.0	7	2.6	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
48	20-1-34	30	30	2.3	4.9	8	2.7	7.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.5**
49	20-1-39	16	16	1.2	2.6	4	1.5	4.1	2	4	0.0	3.0	4	4	0.2	0.4	1	0.0	0.4	0	0	0	0.0	**7.5**
50	20-1-06	0	0	0.0	0.0	15	5.4	5.4	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**5.4**
51	21-2-21	13	13	1.0	2.1	57	20.2	22.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**22.3**
52	21-3-07	16	16	1.2	2.6	9	3.1	5.7	32	4	0.0	3.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.0**
53	28-4-07	16	16	1.2	2.6	20	7.0	9.6	6	12	6.3	16.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**25.6**
54	28-4-04	33	33	2.5	5.3	236	83.3	88.7	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**88.7**
55	21-3-11	17	17	1.3	2.8	4	1.6	4.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.3**
56	G&OADD1	3	3	0.2	0.5	12	4.2	4.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.6**
57	28-1-12	4	4	0.3	0.6	49	17.4	18.0	4	10	11.7	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.1**
58	27-2-23	65	65	5.0	10.5	240	84.7	95.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**95.2**
59	21-3-05	1	1	0.1	0.2	20	7.2	7.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.3**
60	21-2-22	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**0.0**
61	21-1-10	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**0.0**
62	29-3-09	328	328	25.1	53.1	510	180.0	233.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**233.1**
63	18-3-32	105	105	8.0	17.0	160	56.5	73.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**73.5**
CRPS	27-2-05	-	-	-	-	-	-	12.6	-	-	-	0.0	-	-	-	0.0	-	-	0.0	-	-	-	0.0	**12.6**
JMPS	24-1-16	-	-	-	-	-	-	12.6	-	-	-	0.0	-	-	-	0.0	-	-	0.0	-	-	-	0.0	**12.6**
	TOTAL	**2,417**	**2,417**	**184.6**	**391.6**	**2,487**	**877.3**	**1,294.1**	**338**	**398**	**60.5**	**381.0**	**1,235**	**1,095**	**58.6**	**124.2**	**259**	**80.7**	**204.9**	**2,530**	**17**	**60**	**42.9**	**1,922.9**

(1) Additional 62.5 gpm added for Carlsborg peak hour flows. Total input flow for sub-basin 9 was 77.5 gpm.

TABLE E-7

City of Sequim 2018 Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
1	24-1-16	151	151	11.6	35.2	85	30.1	65.3	25	70	19.0	75.6	162	144	11.1	33.6	17	5.9	39.5	0	0	0	0.0	**180.5**
2	24-4-03	0	0	0.0	0.0	0	0.0	0.0	0	26	20.0	41.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**41.3**
3	24-4-39	75	75	5.7	17.4	60	21.0	38.4	7	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**45.8**
4	30-2-23	89	89	6.9	20.9	257	90.6	111.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**111.5**
5	18-3-10	235	235	18.1	54.8	99	35.0	89.8	18	15	0.0	11.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**101.7**
6	19-2-71	144	144	11.1	33.6	21	7.4	41.0	12	27	0.0	21.6	91	81	6.2	18.9	9	3.2	22.0	0	0	0	0.0	**84.6**
7	19-2-36	0	0	0.0	0.0	0	0.0	0.0	1	0	0.0	0.2	55	49	3.8	11.4	13	4.6	16.0	0	0	0	0.0	**16.2**
8	19-2-38	48	48	3.7	11.2	7	2.5	13.7	1	0	0.0	0.0	34	30	2.3	7.0	5	1.8	8.8	0	0	0	0.0	**22.5**
9	19-2-15	0	0	0.0	0.0	0	0.0	0.0	11	15	0.0	12.4	16	14	1.1	3.3	3	1.1	4.4	0	0	0	0.0	**16.7** [(1)]
10	19-3-04	0	0	0.0	0.0	0	0.0	0.0	41	25	0.0	20.1	71	63	4.9	14.7	7	2.6	17.3	0	0	0	0.0	**37.4**
11	19-4-11	71	71	5.5	16.6	13	4.6	21.2	1	0	0.0	0.0	89	79	6.1	18.4	8	2.9	21.4	0	0	0	0.0	**42.6**
12	19-3-47	13	13	1.0	3.0	5	1.6	4.7	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.7**
13	19-3-47	59	59	4.5	13.8	22	7.7	21.5	1	0	0.0	0.0	12	11	0.8	2.5	7	2.5	4.9	0	0	0	0.0	**26.4**
14	19-4-40	8	8	0.6	1.9	2	0.7	2.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**2.6**
15	30-2-12	24	24	1.9	5.6	6	2.2	7.8	1	2	0.0	1.2	42	37	2.9	8.7	56	19.7	28.4	0	0	0	0.0	**37.5**
16	30-3-07	54	54	4.2	12.7	73	25.6	38.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.3**
17	30-4-03	34	34	2.6	8.0	81	28.5	36.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**36.5**
18	30-1-14	13	13	1.0	3.0	7	2.6	5.6	0	0	0.0	0.0	129	114	8.8	26.7	35	12.2	38.9	0	0	0	0.0	**44.6**
19	29-2-43	97	97	7.5	22.7	95	33.6	56.2	0	0	0.0	0.0	36	32	2.5	7.5	23	8.2	15.7	0	0	0	0.0	**71.9**
20	19-4-33	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	154	137	10.5	31.9	10	3.4	35.3	0	0	0	0.0	**35.3**
21	20-3-08	46	46	3.5	10.7	7	2.5	13.2	1	0	0.0	0.2	16	14	1.1	3.3	2	0.9	4.2	0	0	0	0.0	**17.6**
22	19-1-33	0	0	0.0	0.0	0	0.0	0.0	20	5	0.9	4.9	62	55	4.2	12.8	2	0.6	13.4	0	0	0	0.0	**18.3**
23	19-1-29	0	0	0.0	0.0	0	0.0	0.0	13	2	0.0	1.9	7	6	0.5	1.5	8	2.9	4.3	0	0	0	0.0	**6.2**
24	19-2-18	69	69	5.3	16.1	12	4.3	20.4	0	0	0.0	0.0	3	3	0.2	0.6	2	0.7	1.3	0	0	0	0.0	**21.6**
25	19-1-21	36	36	2.8	8.4	7	2.3	10.7	1	0	0.0	0.0	4	4	0.3	0.8	1	0.3	1.1	187	10	6	3.3	**15.1**
26	19-1-12	1	1	0.1	0.2	2	0.8	1.1	19	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	2524	6	54	42.3	**50.8**
27	18-3-10	44	44	3.4	10.3	22	7.8	18.1	9	25	0.0	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.2**
28	18-1-08	142	142	11.0	33.3	74	26.0	59.2	1	5	0.0	4.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**63.2**
29	18-4-27	78	78	6.0	18.1	95	33.4	51.5	6	7	0.0	5.4	12	11	0.8	2.5	9	3.2	5.7	0	0	0	0.0	**62.6**
30	19-1-15	3	3	0.2	0.6	6	2.1	2.8	2	0	0.0	0.4	0	0	0.0	0.0	0	0.0	0.0	0	1	0	0.0	**3.1**
31	20-2-42	0	0	0.0	0.0	0	0.0	0.0	19	6	0.0	4.5	62	55	4.2	12.8	3	1.2	14.0	0	0	0	0.0	**18.5**
32	20-2-34	22	22	1.7	5.1	5	1.8	7.0	2	2	0.0	1.2	4	4	0.3	0.8	1	0.3	1.2	0	0	0	0.0	**9.3**
33	20-2-32	24	24	1.9	5.6	5	1.8	7.4	5	2	0.0	1.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.3**
34	20-2-29	25	25	1.9	5.8	6	2.0	7.8	1	1	0.0	0.5	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
35	20-2-25	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
36	20-2-17	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
37	20-3-11	36	36	2.8	8.4	5	1.6	10.0	10	12	0.0	9.5	32	28	2.2	6.6	4	1.4	8.1	0	0	0	0.0	**27.6**
38	20-4-17	9	9	0.7	2.2	41	14.5	16.6	42	47	22.5	60.2	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**76.8**
39	20-4-35	5	5	0.4	1.2	1	0.4	1.5	20	54	0.0	43.8	138	122	9.4	28.6	29	0.0	28.6	0	0	0	0.0	**73.9**
40	29-2-43	53	53	4.1	12.4	126	44.4	56.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**56.8**
41	17-3-02	2	2	0.2	0.5	28	9.8	10.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.2**

TABLE E-7

City of Sequim 2018 Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
42	20-2-34	67	67	5.2	15.6	33	11.5	27.1	4	1	0.0	0.8	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**27.9**
43	17-4-01	29	29	2.2	6.8	11	3.8	10.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.5**
44	20-2-04	45	45	3.5	10.5	12	4.3	14.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**14.8**
45	20-1-20	32	32	2.5	7.5	7	2.4	9.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.9**
46	20-1-26	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
47	20-1-30	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
48	20-1-34	32	32	2.5	7.5	8	2.7	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
49	20-1-39	17	17	1.3	4.0	4	1.5	5.5	2	4	0.0	3.0	4	4	0.3	0.8	1	0.0	0.8	0	0	0	0.0	**9.3**
50	20-1-06	5	5	0.4	1.3	25	8.9	10.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.2**
51	21-2-21	13	13	1.0	3.0	57	20.2	23.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**23.2**
52	21-3-07	16	16	1.2	3.7	9	3.1	6.8	32	4	0.0	3.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
53	28-4-07	16	16	1.2	3.7	20	7.0	10.7	6	12	6.3	16.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**26.8**
54	28-4-04	33	33	2.5	7.7	236	83.3	91.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**91.0**
55	21-3-11	17	17	1.3	4.0	4	1.6	5.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**5.5**
56	G&OADD	3	3	0.2	0.7	12	4.2	4.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.9**
57	28-1-12	4	4	0.3	0.9	49	17.4	18.3	4	10	11.7	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.4**
58	27-2-23	147	147	11.3	34.3	252	89.0	123.4	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**123.4**
59	21-3-05	5	5	0.4	1.2	20	7.2	8.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
60	21-2-22	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**0.0**
61	21-1-10	1	1	0.1	0.3	39	13.7	14.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**14.0**
62	29-3-09	341	341	26.2	79.5	510	180.0	259.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**259.5**
63	18-3-32	114	114	8.8	26.6	160	56.5	83.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0					**83.1**
CRPS	27-2-05	-	-	-	0.0	-	-	12.7	-	-	-	0.0	-	-	0.0	0.0	-	-	0.0	-	-	-	0.0	**12.7**
JMPS	24-1-16	-	-	-	0.0	-	-	12.7	-	-	-	0.0	-	-	0.0	0.0	-	-	0.0	-	-	-	0.0	**12.7**
	TOTAL	**2,759**	**2,759**	**212.6**	**644.3**	**2768**	**976.7**	**1,646.4**	**338**	**398**	**80.5**	**401.0**	**1,235**	**1,095**	**84.4**	**255.9**	**256**	**79.5**	**335.4**	**2,711**	**17**	**60**	**45.6**	**2,428.3**

(1) Additional 104 gpm added for Carlsborg peak hour flows. Total input flow for sub-basin 9 was 120.7 gpm.

TABLE E-8

City of Sequim 2032 Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
1	24-1-16	297	297	22.9	69.4	160	56.3	125.6	25	70	19.0	75.6	162	144	11.1	33.6	17	5.9	39.5	0	0	0	0.0	**240.8**
2	24-4-03	0	0	0.0	0.0	0	0.0	0.0	0	26	20.0	41.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**41.3**
3	24-4-39	177	177	13.6	41.3	120	42.5	83.8	7	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**91.2**
4	30-2-23	216	216	16.6	50.4	367	129.4	179.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**179.8**
5	18-3-10	282	282	21.7	65.9	138	48.7	114.6	18	15	0.0	11.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**126.5**
6	19-2-71	169	169	13.0	39.4	32	11.2	50.5	12	27	0.0	21.6	91	81	6.2	18.9	9	3.2	22.0	0	0	0	0.0	**94.1**
7	19-2-36	0	0	0.0	0.0	0	0.0	0.0	1	0	0.0	0.2	55	49	3.8	11.4	13	4.6	16.0	0	0	0	0.0	**16.2**
8	19-2-38	48	48	3.7	11.2	7	2.5	13.7	1	0	0.0	0.0	34	30	2.3	7.0	5	1.8	8.8	0	0	0	0.0	**22.5**
9	19-2-15	0	0	0.0	0.0	0	0.0	0.0	11	15	0.0	12.4	16	14	1.1	3.3	3	1.1	4.4	0	0	0	0.0	**16.7** [1]
10	19-3-04	0	0	0.0	0.0	0	0.0	0.0	41	25	0.0	20.1	71	63	4.9	14.7	7	2.6	17.3	0	0	0	0.0	**37.4**
11	19-4-11	71	71	5.5	16.6	13	4.6	21.2	1	0	0.0	0.0	89	79	6.1	18.4	8	2.9	21.4	0	0	0	0.0	**42.6**
12	19-3-47	13	13	1.0	3.0	5	1.6	4.7	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.7**
13	19-3-47	64	64	4.9	14.9	22	7.7	22.6	1	0	0.0	0.0	12	11	0.8	2.5	7	2.5	4.9	0	0	0	0.0	**27.6**
14	19-4-40	8	8	0.6	1.9	2	0.7	2.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**2.6**
15	30-2-12	24	24	1.9	5.6	6	2.2	7.8	1	2	0.0	1.2	42	37	2.9	8.7	56	19.7	28.4	0	0	0	0.0	**37.5**
16	30-3-07	67	67	5.2	15.6	92	32.5	48.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**48.1**
17	30-4-03	89	89	6.9	20.8	214	75.3	96.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**96.1**
18	30-1-14	13	13	1.0	3.0	7	2.6	5.6	0	0	0.0	0.0	129	114	8.8	26.7	35	12.2	38.9	0	0	0	0.0	**44.6**
19	29-2-43	97	97	7.5	22.7	95	33.6	56.2	0	0	0.0	0.0	36	32	2.5	7.5	23	8.2	15.7	0	0	0	0.0	**71.9**
20	19-4-33	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	154	137	10.5	31.9	10	3.4	35.3	0	0	0	0.0	**35.3**
21	20-3-08	46	46	3.5	10.7	7	2.5	13.2	1	0	0.0	0.2	16	14	1.1	3.3	2	0.9	4.2	0	0	0	0.0	**17.6**
22	19-1-33	0	0	0.0	0.0	0	0.0	0.0	20	5	0.9	4.9	62	55	4.2	12.8	2	0.6	13.4	0	0	0	0.0	**18.3**
23	19-1-29	0	0	0.0	0.0	0	0.0	0.0	13	2	0.0	1.9	7	6	0.5	1.5	8	2.9	4.3	0	0	0	0.0	**6.2**
24	19-2-18	69	69	5.3	16.1	12	4.3	20.4	0	0	0.0	0.0	3	3	0.2	0.6	2	0.7	1.3	0	0	0	0.0	**21.6**
25	19-1-21	36	36	2.8	8.4	7	2.3	10.7	1	0	0.0	0.0	4	4	0.3	0.8	1	0.3	1.1	218	10	6	3.8	**15.6**
26	19-1-12	1	1	0.1	0.2	2	0.8	1.1	19	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	2,931	6	54	48.2	**56.8**
27	18-3-10	44	44	3.4	10.3	22	7.8	18.1	9	25	0.0	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.2**
28	18-1-08	263	263	20.3	61.5	140	49.4	110.9	1	5	0.0	4.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**115.0**
29	18-4-27	171	171	13.2	39.9	166	58.6	98.6	6	7	0.0	5.4	12	11	0.8	2.5	5	1.8	4.3	0	0	0	0.0	**108.3**
30	19-1-15	5	5	0.4	1.2	10	3.6	4.7	2	0	0.0	0.4	0	0	0.0	0.0	0	0.0	0.0	0	1	0	0.0	**5.1**
31	20-2-42	0	0	0.0	0.0	0	0.0	0.0	19	6	0.0	4.5	62	55	4.2	12.8	3	1.2	14.0	0	0	0	0.0	**18.5**
32	20-2-34	22	22	1.7	5.1	5	1.8	7.0	2	2	0.0	1.2	4	4	0.3	0.8	1	0.3	1.2	0	0	0	0.0	**9.3**
33	20-2-32	24	24	1.9	5.6	5	1.8	7.4	5	2	0.0	1.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.3**
34	20-2-29	25	25	1.9	5.8	6	2.0	7.8	1	1	0.0	0.5	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
35	20-2-25	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
36	20-2-17	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
37	20-3-11	36	36	2.8	8.4	5	1.6	10.0	10	12	0.0	9.5	32	28	2.2	6.6	4	1.4	8.1	0	0	0	0.0	**27.6**
38	20-4-17	25	25	1.9	5.8	61	21.5	27.3	42	47	22.5	60.2	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**87.4**
39	20-4-35	5	5	0.4	1.2	1	0.4	1.5	20	54	0.0	43.8	138	122	9.4	28.6	29	0.0	28.6	0	0	0	0.0	**73.9**
40	29-2-43	130	130	10.0	30.4	149	52.4	82.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**82.8**
41	17-3-02	2	2	0.2	0.5	28	9.8	10.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.2**
42	20-2-34	92	92	7.1	21.4	57	20.0	41.4	4	1	0.0	0.8	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**42.2**
43	17-4-01	29	29	2.2	6.8	11	3.8	10.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.5**

TABLE E-8

City of Sequim 2032 Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
44	20-2-04	45	45	3.5	10.5	12	4.3	14.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**14.8**
45	20-1-20	32	32	2.5	7.5	7	2.4	9.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.9**
46	20-1-26	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
47	20-1-30	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
48	20-1-34	32	32	2.5	7.5	8	2.7	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
49	20-1-39	17	17	1.3	4.0	4	1.5	5.5	2	4	0.0	3.0	4	4	0.3	0.8	1	0.0	0.8	0	0	0	0.0	**9.3**
50	20-1-06	21	21	1.6	4.9	56	19.6	24.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**24.5**
51	21-2-21	13	13	1.0	3.0	57	20.2	23.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**23.2**
52	21-3-07	16	16	1.2	3.7	9	3.1	6.8	32	4	0.0	3.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
53	28-4-07	23	23	1.8	5.4	20	7.0	12.4	6	12	6.3	16.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**28.4**
54	28-4-04	33	33	2.5	7.7	236	83.3	91.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**91.0**
55	21-3-11	17	17	1.3	4.0	4	1.6	5.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**5.5**
56	G&OADD	3	3	0.2	0.7	12	4.2	4.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.9**
57	28-1-12	4	4	0.3	0.9	49	17.4	18.3	4	10	11.7	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.4**
58	27-2-23	337	337	26.0	78.8	289	102.0	180.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**180.8**
59	21-3-05	5	5	0.4	1.2	20	7.2	8.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
60	21-2-22	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**0.0**
61	21-1-10	14	14	1.1	3.3	155	54.8	58.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**58.0**
62	29-3-09	368	368	28.4	86.0	510	180.0	265.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**265.9**
63	18-3-32	133	133	10.3	31.1	160	56.5	87.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0					**87.6**
CRPS	27-2-05	-	-	-	-	-	-	12.7	-	-	-	0.0	-	-	-	-	-	-	0.0	-	-	-	0.0	**12.7**
JMPS	24-1-16	-	-	-	-	-	-	12.7	-	-	-	0.0	-	-	-	-	-	-	0.0	-	-	-	0.0	**12.7**
	TOTAL	**3,885**	**3,885**	**299.4**	**907.3**	**3,607**	**1,272.6**	**2,205.3**	**338**	**398**	**80.4**	**400.9**	**1,235**	**1,095**	**84.4**	**255.9**	**252**	**78.1**	**333.9**	**3,149**	**17**	**60**	**52.0**	**2,992.1**

(1) Additional 187 gpm added for Carlsborg peak hour flows. Total input flow for sub-basin 9 was 203.7 gpm.

TABLE E-9

City of Sequim Buildout Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
1	24-1-16	339	339	26.1	79.2	160	56.3	135.4	25	70	19.0	75.6	162	144	11.1	33.6	17	5.9	39.5	0	0	0	0.0	**250.6**
2	24-4-03	0	0	0.0	0.0	0	0.0	0.0	0	26	20.0	41.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**41.3**
3	24-4-39	188	188	14.5	43.9	120	42.5	86.4	7	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**93.8**
4	30-2-23	236	236	18.2	55.1	367	129.4	184.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**184.6**
5	18-3-10	282	282	21.7	65.9	138	48.7	114.6	18	15	0.0	11.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**126.5**
6	19-2-71	177	177	13.6	41.3	32	11.2	52.5	12	27	0.0	21.6	91	81	6.2	18.9	9	3.2	22.0	0	0	0	0.0	**96.1**
7	19-2-36	0	0	0.0	0.0	0	0.0	0.0	1	0	0.0	0.2	55	49	3.8	11.4	13	4.6	16.0	0	0	0	0.0	**16.2**
8	19-2-38	48	48	3.7	11.2	7	2.5	13.7	1	0	0.0	0.0	34	30	2.3	7.0	5	1.8	8.8	0	0	0	0.0	**22.5**
9	19-2-15	0	0	0.0	0.0	0	0.0	0.0	11	15	0.0	12.4	16	14	1.1	3.3	3	1.1	4.4	0	0	0	0.0	**16.7** [1]
10	19-3-04	0	0	0.0	0.0	0	0.0	0.0	41	25	0.0	20.1	71	63	4.9	14.7	7	2.6	17.3	0	0	0	0.0	**37.4**
11	19-4-11	71	71	5.5	16.6	13	4.6	21.2	1	0	0.0	0.0	89	79	6.1	18.4	8	2.9	21.4	0	0	0	0.0	**42.6**
12	19-3-47	13	13	1.0	3.0	5	1.6	4.7	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**4.7**
13	19-3-47	64	64	4.9	14.9	22	7.7	22.6	1	0	0.0	0.0	12	11	0.8	2.5	7	2.5	4.9	0	0	0	0.0	**27.6**
14	19-4-40	8	8	0.6	1.9	2	0.7	2.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**2.6**
15	30-2-12	24	24	1.9	5.6	6	2.2	7.8	1	2	0.0	1.2	42	37	2.9	8.7	56	19.7	28.4	0	0	0	0.0	**37.5**
16	30-3-07	67	67	5.2	15.6	92	32.5	48.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**48.1**
17	30-4-03	89	89	6.9	20.8	214	75.3	96.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**96.1**
18	30-1-14	40	40	3.1	9.3	7	2.6	11.9	0	0	0.0	0.0	129	114	8.8	26.7	35	12.2	38.9	0	0	0	0.0	**50.9**
19	29-2-43	147	147	11.3	34.3	95	33.6	67.9	0	0	0.0	0.0	36	32	2.5	7.5	23	8.2	15.7	0	0	0	0.0	**83.6**
20	19-4-33	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	154	137	10.5	31.9	10	3.4	35.3	0	0	0	0.0	**35.3**
21	20-3-08	46	46	3.5	10.7	7	2.5	13.2	1	0	0.0	0.2	16	14	1.1	3.3	2	0.9	4.2	0	0	0	0.0	**17.6**
22	19-1-33	0	0	0.0	0.0	0	0.0	0.0	20	5	0.9	4.9	62	55	4.2	12.8	2	0.6	13.4	0	0	0	0.0	**18.3**
23	19-1-29	0	0	0.0	0.0	0	0.0	0.0	13	2	0.0	1.9	7	6	0.5	1.5	8	2.9	4.3	0	0	0	0.0	**6.2**
24	19-2-18	69	69	5.3	16.1	12	4.3	20.4	0	0	0.0	0.0	3	3	0.2	0.6	2	0.7	1.3	0	0	0	0.0	**21.6**
25	19-1-21	36	36	2.8	8.4	7	2.3	10.7	1	0	0.0	0.0	4	4	0.3	0.8	1	0.3	1.1	250	10	6	4.2	**16.1**
26	19-1-12	1	1	0.1	0.2	2	0.8	1.1	19	9	0.0	7.4	0	0	0.0	0.0	0	0.0	0.0	3,500	6	54	56.6	**65.1**
27	18-3-10	44	44	3.4	10.3	22	7.8	18.1	9	25	0.0	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**38.2**
28	18-1-08	271	271	20.9	63.3	140	49.4	112.7	1	5	0.0	4.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**116.7**
29	18-4-27	180	180	13.9	42.0	166	58.6	100.7	6	7	0.0	5.4	12	11	0.8	2.5	5	1.8	4.3	0	0	0	0.0	**110.4**
30	19-1-15	5	5	0.4	1.2	10	3.7	4.9	2	0	0.0	0.4	0	0	0.0	0.0	0	0.0	0.0	0	1	0	0.0	**5.3**
31	20-2-42	0	0	0.0	0.0	0	0.0	0.0	19	6	0.0	4.5	62	55	4.2	12.8	3	1.2	14.0	0	0	0	0.0	**18.5**
32	20-2-34	22	22	1.7	5.1	5	1.8	7.0	2	2	0.0	1.2	4	4	0.3	0.8	1	0.3	1.2	0	0	0	0.0	**9.3**
33	20-2-32	24	24	1.9	5.6	5	1.8	7.4	5	2	0.0	1.9	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.3**
34	20-2-29	25	25	1.9	5.8	6	2.0	7.8	1	1	0.0	0.5	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
35	20-2-25	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
36	20-2-17	24	24	1.9	5.6	6	2.0	7.6	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**7.6**
37	20-3-11	36	36	2.8	8.4	5	1.6	10.0	10	12	0.0	9.5	32	28	2.2	6.6	4	1.4	8.1	0	0	0	0.0	**27.6**
38	20-4-17	25	25	1.9	5.8	61	21.5	27.3	42	47	22.5	60.2	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**87.4**
39	20-4-35	5	5	0.4	1.2	1	0.4	1.5	20	54	0.0	43.8	138	122	9.4	28.6	29	0.0	28.6	0	0	0	0.0	**73.9**
40	29-2-43	140	140	10.8	32.7	149	52.4	85.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**85.1**
41	17-3-02	2	2	0.2	0.5	28	9.8	10.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.2**
42	20-2-34	97	97	7.5	22.7	57	20.0	42.7	4	1	0.0	0.8	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**43.5**
43	17-4-01	29	29	2.2	6.8	11	3.8	10.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.5**

TABLE E-9

City of Sequim Buildout Model Input Data Sheet

		SINGLE FAMILY RESIDENTIAL FLOW							COMMERCIAL FLOW				MULTI-FAMILY RESIDENTIAL FLOW							SCHOOL FLOW				Total Flow
Sewer Basin	Loading Manhole	Occupied Parcels	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Parcels	Acres	HMRV Peak Flow (gpm)	Total Flow (gpm)	# of Units	ERUs	Base Flow (gpm)	Peak Base Flow (gpm)	Acres	I/I flow (gpm)	Total Peak Hour Flow (gpm)	# of Students	# of Parcels	Acres	Flow (gpm)	(gpm)
44	20-2-04	45	45	3.5	10.5	12	4.3	14.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**14.8**
45	20-1-20	32	32	2.5	7.5	7	2.4	9.9	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**9.9**
46	20-1-26	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
47	20-1-30	32	32	2.5	7.5	7	2.6	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
48	20-1-34	32	32	2.5	7.5	8	2.7	10.1	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**10.1**
49	20-1-39	17	17	1.3	4.0	4	1.5	5.5	2	4	0.0	3.0	4	4	0.3	0.8	1	0.0	0.8	0	0	0	0.0	**9.3**
50	20-1-06	21	21	1.6	4.9	56	19.6	24.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**24.5**
51	21-2-21	52	52	4.0	12.1	57	20.2	32.4	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**32.4**
52	21-3-07	62	62	4.8	14.5	9	3.1	17.5	32	4	0.0	3.3	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**20.9**
53	28-4-07	23	23	1.8	5.4	20	7.0	12.4	6	12	6.3	16.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**28.4**
54	28-4-04	172	172	13.3	40.2	236	83.3	123.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**123.5**
55	21-3-11	21	21	1.6	4.9	4	1.6	6.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**6.5**
56	G&OADD1	54	54	4.2	12.6	12	4.2	16.8	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**16.8**
57	28-1-12	14	14	1.1	3.3	49	17.4	20.7	4	10	11.7	20.1	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**40.7**
58	27-2-23	400	400	30.8	93.4	289	102.0	195.5	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**195.5**
59	21-3-05	5	5	0.4	1.2	20	7.2	8.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**8.3**
60	21-2-22	0	0	0.0	0.0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**0.0**
61	21-1-10	14	14	1.1	3.3	155	54.8	58.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**58.0**
62	29-3-09	378	378	29.1	88.3	510	180.0	268.3	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0	0	0	0	0.0	**268.3**
63	18-3-32	140	140	10.8	32.7	160	56.5	89.2	0	0	0.0	0.0	0	0	0.0	0.0	0	0.0	0.0					**89.2**
CRPS	27-2-05	-	-	-	-	-	-	12.7	-	-	-	0.0	-	-	-	-	-	-	0.0	-	-	-	0.0	**12.7**
JMPS	24-1-16	-	-	-	-	-	-	12.7	-	-	-	0.0	-	-	-	-	-	-	0.0	-	-	-	0.0	**12.7**
	TOTAL	**4,444**	**4,444**	**342.6**	**1,038.0**	**3,608**	**1,272.7**	**2,336.1**	**338**	**398**	**80.4**	**400.9**	**1,235**	**1,095**	**84.4**	**255.9**	**252**	**78.1**	**333.9**	**3,750**	**17**	**60**	**60.8**	**3,131.8**

(1) Additional 836 gpm added for Carlsborg peak hour flows. Total input flow for sub-basin 9 was 852.7 gpm.

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
WITH Carlsborg Flows									
17-4-01	2000	8	8	0	161.997	Not Full	No	1838.003	9.497
27-2-05	2000	12.6	12.6	0	238.978	Not Full	No	1761.022	4.501
20-1-06	2000	5.4	5.4	0	102.053	Not Full	No	1897.947	4.426
17-2-13	2,000	0	0	0	75.115	Not Full	No	1,924.89	0.695
17-2-14	2,000	0	0	0	75.09	Not Full	Yes	1,924.91	0.37
21-4-20	2,000	0	0	0	177.814	Not Full	Yes	1,822.19	0.107
20-1-19	2,000	0	0	0	114.862	Not Full	Yes	1,885.14	0.012
17-2-12	2,000	0	0	0	75.262	Not Full	No	1,924.74	-0.158
19-4-25	2,000	0	0	0	200.434	Not Full	Yes	1,799.57	-0.233
20-1-20	2,000	7.1	7.1	0	114.928	Not Full	No	1,885.07	-0.272
19-2-44	2,000	0	0	0	176.576	Not Full	Yes	1,823.42	-0.29
19-4-22	2,000	0	0	0	184.751	Not Full	No	1,815.25	-0.316
19-4-47	2,000	0	0	0	187.528	Not Full	No	1,812.47	-0.339
19-4-46	2,000	0	0	0	187.277	Not Full	No	1,812.72	-0.339
29-3-16	2,000	0	0	0	524.126	Not Full	No	1,475.87	-0.341
19-1-30	2,000	0	0	0	190.723	Not Full	No	1,809.28	-0.344
19-2-54	2,000	0	0	0	200.316	Not Full	No	1,799.68	-0.351
19-2-16	2,000	0	0	0	203.104	Not Full	No	1,796.90	-0.353
19-2-15	2,000	77.5	77.5	0	207.044	Not Full	No	1,792.96	-0.353
19-2-17	2,000	0	0	0	197.413	Not Full	No	1,802.59	-0.353
19-2-59	2,000	0	0	0	199.3	Not Full	No	1,800.70	-0.357
20-1-13	2,000	0	0	0	113.985	Not Full	No	1,886.02	-0.365
30-2-25	2,000	0	0	0	258.562	Not Full	No	1,741.44	-0.365
30-2-12	2,000	31	31	0	260.842	Not Full	No	1,739.16	-0.365
30-2-11	2,000	0	0	0	259.831	Not Full	No	1,740.17	-0.365
19-4-23	2,000	0	0	0	192.598	Not Full	No	1,807.40	-0.369
19-4-24	2,000	0	0	0	200.098	Not Full	No	1,799.90	-0.369
19-1-29	2,000	5.4	5.4	0	185.497	Not Full	No	1,814.50	-0.369
19-4-26	2,000	0	0	0	205.494	Not Full	No	1,794.51	-0.373
19-1-28	2,000	0	0	0	180.794	Not Full	No	1,819.21	-0.373
19-4-32	2,000	0	0	0	212.786	Not Full	No	1,787.21	-0.381
19-4-27	2,000	0	0	0	209.385	Not Full	No	1,790.62	-0.381
19-4-33	2,000	18.9	18.9	0	215.583	Not Full	No	1,784.42	-0.384
28-1-12	2,000	38.1	38.1	0	218.882	Not Full	Yes	1,781.12	-0.385
19-4-49	2,000	0	0	0	189.969	Not Full	Yes	1,810.03	-0.398
30-1-41	2,000	0	0	0	215.938	Not Full	Yes	1,784.06	-0.398
19-4-34	2,000	0	0	0	218.967	Not Full	No	1,781.03	-0.4
28-1-20	2,000	0	0	0	185.829	Not Full	Yes	1,814.17	-0.408
28-1-31	2,000	0	0	0	209.266	Not Full	Yes	1,790.73	-0.411
20-3-01	2,000	0	0	0	167.388	Not Full	Yes	1,832.61	-0.412
19-4-40	2,000	1.8	1.8	0	225.053	Not Full	No	1,774.95	-0.413
20-3-06	2,000	0	0	0	170.72	Not Full	No	1,829.28	-0.413
21-4-24	2,000	0	0	0	179.192	Not Full	Yes	1,820.81	-0.415

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-12	2,000	0	0	0	210.16	Not Full	No	1,789.84	-0.417
24-1-26	2,000	0	0	0	228.269	Not Full	No	1,771.73	-0.417
24-1-05	2,000	0	0	0	231.369	Not Full	No	1,768.63	-0.418
24-1-02	2,000	0	0	0	238.199	Not Full	No	1,761.80	-0.418
24-1-07	2,000	0	0	0	225.009	Not Full	No	1,774.99	-0.418
24-1-01	2,000	0	0	0	241.269	Not Full	No	1,758.73	-0.418
21-4-05	2,000	0	0	0	132.459	Not Full	Yes	1,867.54	-0.418
19-2-56	2,000	0	0	0	217.608	Not Full	No	1,782.39	-0.418
19-2-10	2,000	0	0	0	213.808	Not Full	No	1,786.19	-0.418
19-2-11	2,000	0	0	0	212.658	Not Full	No	1,787.34	-0.418
24-2-54	2,000	0	0	0	221.088	Not Full	No	1,778.91	-0.418
24-1-14	2,000	0	0	0	243.148	Not Full	No	1,756.85	-0.419
19-2-14	2,000	0	0	0	208.448	Not Full	No	1,791.55	-0.419
24-1-08	2,000	0	0	0	222.048	Not Full	No	1,777.95	-0.419
24-1-03	2,000	0	0	0	235.268	Not Full	No	1,764.73	-0.419
24-1-13	2,000	0	0	0	233.568	Not Full	No	1,766.43	-0.419
24-1-06	2,000	0	0	0	225.847	Not Full	No	1,774.15	-0.419
28-1-01	2,000	0	0	0	149.945	Not Full	No	1,850.06	-0.421
19-1-27	2,000	0	0	0	177.845	Not Full	No	1,822.16	-0.422
G&OADD1	2,000	0	0	0	232.444	Not Full	No	1,767.56	-0.422
27-2-21	2,000	0	0	0	192.431	Not Full	No	1,807.57	-0.425
27-2-18	2,000	0	0	0	189.42	Not Full	Yes	1,810.58	-0.427
27-2-20	2,000	0	0	0	191.7	Not Full	No	1,808.30	-0.427
27-2-22	2,000	0	0	0	193.2	Not Full	No	1,806.80	-0.427
27-2-23	2,000	95.2	95.2	0	193.9	Not Full	No	1,806.10	-0.427
19-4-48	2,000	0	0	0	188.939	Not Full	No	1,811.06	-0.428
29-3-15	2,000	0	0	0	530.234	Not Full	No	1,469.77	-0.432
29-3-12	2,000	0	0	0	588.281	Not Full	No	1,411.72	-0.435
19-2-62	2,000	0	0	0	183.852	Not Full	No	1,816.15	-0.445
19-3-26	2,000	0	0	0	251.239	Not Full	No	1,748.76	-0.448
21-4-09	2,000	0	0	0	141.814	Not Full	No	1,858.19	-0.453
27-2-02	2,000	0	0	0	225.838	Not Full	No	1,774.16	-0.459
28-1-30	2,000	0	0	0	207.528	Not Full	No	1,792.47	-0.459
21-4-21	2,000	0	0	0	178.606	Not Full	No	1,821.39	-0.461
21-4-10	2,000	0	0	0	155.204	Not Full	No	1,844.80	-0.462
21-4-06	2,000	0	0	0	135.624	Not Full	No	1,864.38	-0.463
19-2-71	2,000	61.7	61.7	0	184.514	Not Full	No	1,815.49	-0.463
18-4-25	2,000	0	0	0	130.701	Not Full	No	1,869.30	-0.465
19-4-51	2,000	0	0	0	239.801	Not Full	No	1,760.20	-0.465
18-4-23	2,000	0	0	0	124.5	Not Full	No	1,875.50	-0.467
18-4-24	2,000	0	0	0	127.698	Not Full	No	1,872.30	-0.468
27-2-03	2,000	0	0	0	227.428	Not Full	No	1,772.57	-0.469
29-2-43	2,000	117.4	117.4	0	221.655	Not Full	No	1,778.35	-0.472
30-1-20	2,000	0	0	0	216.764	Not Full	No	1,783.24	-0.472

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-3-12	2,000	0	0	0	266.94	Not Full	No	1,733.06	-0.477
19-2-39	2,000	0	0	0	182.899	Not Full	No	1,817.10	-0.478
19-3-27	2,000	0	0	0	257.648	Not Full	No	1,742.35	-0.479
29-3-17	2,000	0	0	0	520.953	Not Full	Yes	1,479.05	-0.48
20-4-35	2,000	58.9	58.9	0	117.037	Not Full	No	1,882.96	-0.48
20-4-31	2,000	0	0	0	114.527	Not Full	No	1,885.47	-0.48
18-4-05	2,000	0	0	0	138.186	Not Full	No	1,861.81	-0.481
18-4-26	2,000	0	0	0	135.083	Not Full	No	1,864.92	-0.484
21-4-08	2,000	0	0	0	141.131	Not Full	No	1,858.87	-0.485
29-3-09	2,000	233.1	233.1	0	664.081	Not Full	No	1,335.92	-0.486
27-2-19	2,000	0	0	0	190.38	Not Full	No	1,809.62	-0.486
18-4-27	2,000	43.5	43.5	0	142.48	Not Full	No	1,857.52	-0.486
29-3-18	2,000	0	0	0	519.347	Not Full	No	1,480.65	-0.487
29-1-17	2,000	0	0	0	478.446	Not Full	Yes	1,521.55	-0.487
29-3-11	2,000	0	0	0	609.228	Not Full	No	1,390.77	-0.489
29-1-21	2,000	0	0	0	517.642	Not Full	No	1,482.36	-0.491
28-1-19	2,000	0	0	0	185.394	Not Full	No	1,814.61	-0.492
29-3-14	2,000	0	0	0	550.673	Not Full	No	1,449.33	-0.494
19-4-44	2,000	0	0	0	247.17	Not Full	No	1,752.83	-0.497
29-3-10	2,000	0	0	0	646.219	Not Full	No	1,353.78	-0.498
19-3-04	2,000	29.8	29.8	0	217.337	Not Full	No	1,782.66	-0.5
19-3-36	2,000	0	0	0	214.417	Not Full	No	1,785.58	-0.5
19-3-03	2,000	0	0	0	212.117	Not Full	No	1,787.88	-0.5
19-3-37	2,000	0	0	0	210.137	Not Full	No	1,789.86	-0.5
20-3-02	2,000	0	0	0	174.065	Not Full	No	1,825.94	-0.502
19-3-01	2,000	0	0	0	207.072	Not Full	No	1,792.93	-0.504
21-2-21	2,000	22.3	22.3	0	63.472	Not Full	No	1,936.53	-0.504
20-2-40	2,000	0	0	0	164.595	Not Full	Yes	1,835.41	-0.505
19-4-05	2,000	0	0	0	206.371	Not Full	No	1,793.63	-0.506
19-3-02	2,000	0	0	0	208.55	Not Full	No	1,791.45	-0.507
29-3-13	2,000	0	0	0	579.158	Not Full	No	1,420.84	-0.509
19-4-01	2,000	0	0	0	178.558	Not Full	No	1,821.44	-0.509
19-4-04	2,000	0	0	0	199.957	Not Full	No	1,800.04	-0.51
19-4-02	2,000	0	0	0	183.257	Not Full	No	1,816.74	-0.51
28-4-02	2,000	0	0	0	264.086	Not Full	No	1,735.91	-0.51
19-4-03	2,000	0	0	0	191.655	Not Full	No	1,808.35	-0.512
30-1-18	2,000	0	0	0	242.752	Not Full	No	1,757.25	-0.515
27-2-04	2,000	0	0	0	233.011	Not Full	No	1,766.99	-0.516
19-4-50	2,000	0	0	0	204.65	Not Full	No	1,795.35	-0.516
18-1-11	2,000	0	0	0	113.007	Not Full	Yes	1,886.99	-0.519
28-1-02	2,000	0	0	0	162.245	Not Full	No	1,837.76	-0.521
21-4-11	2,000	0	0	0	154.845	Not Full	No	1,845.16	-0.522
19-1-01	2,000	0	0	0	145.944	Not Full	No	1,854.06	-0.523
19-1-21	2,000	11.8	11.8	0	181.343	Not Full	No	1,818.66	-0.524

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
27-2-10	2,000	0	0	0	188.472	Not Full	No	1,811.53	-0.525
19-4-11	2,000	27.5	27.5	0	206.541	Not Full	No	1,793.46	-0.526
21-4-19	2,000	0	0	0	177.161	Not Full	No	1,822.84	-0.526
27-2-11	2,000	0	0	0	181.19	Not Full	No	1,818.81	-0.527
19-4-08	2,000	0	0	0	194.139	Not Full	No	1,805.86	-0.528
19-2-40	2,000	0	0	0	181.929	Not Full	No	1,818.07	-0.528
19-4-45	2,000	0	0	0	236.839	Not Full	No	1,763.16	-0.528
30-1-17	2,000	0	0	0	252.238	Not Full	No	1,747.76	-0.529
30-1-15	2,000	0	0	0	295.237	Not Full	No	1,704.76	-0.53
19-4-07	2,000	0	0	0	187.136	Not Full	No	1,812.86	-0.531
21-4-07	2,000	0	0	0	138.735	Not Full	No	1,861.27	-0.531
28-1-29	2,000	0	0	0	204.593	Not Full	No	1,795.41	-0.534
27-2-12	2,000	0	0	0	175.233	Not Full	No	1,824.77	-0.534
19-4-09	2,000	0	0	0	202.333	Not Full	No	1,797.67	-0.534
28-3-14	2,000	0	0	0	278.913	Not Full	No	1,721.09	-0.534
21-4-18	2,000	0	0	0	168.462	Not Full	No	1,831.54	-0.535
30-3-05	2,000	0	0	0	383.001	Not Full	Yes	1,617.00	-0.535
19-3-11	2,000	0	0	0	235.001	Not Full	No	1,765.00	-0.536
19-3-09	2,000	0	0	0	228.071	Not Full	No	1,771.93	-0.536
19-3-31	2,000	0	0	0	266.12	Not Full	No	1,733.88	-0.537
28-1-04	2,000	0	0	0	201.03	Not Full	No	1,798.97	-0.537
30-1-07	2,000	0	0	0	349.129	Not Full	No	1,650.87	-0.538
30-1-19	2,000	0	0	0	214.379	Not Full	No	1,785.62	-0.538
19-3-32	2,000	0	0	0	267.709	Not Full	No	1,732.29	-0.538
19-3-28	2,000	0	0	0	262.599	Not Full	No	1,737.40	-0.538
24-4-26	2,000	0	0	0	270.288	Not Full	No	1,729.71	-0.538
24-4-27	2,000	0	0	0	269.368	Not Full	No	1,730.63	-0.538
24-4-25	2,000	0	0	0	271.888	Not Full	No	1,728.11	-0.538
24-4-24	2,000	0	0	0	273.078	Not Full	Yes	1,726.92	-0.538
27-2-01	2,000	0	0	0	224.758	Not Full	No	1,775.24	-0.539
19-4-06	2,000	0	0	0	180.447	Not Full	No	1,819.55	-0.539
24-4-39	2,000	27.9	27.9	0	277.327	Not Full	No	1,722.67	-0.54
19-1-12	2,000	48.1	48.1	0	168.827	Not Full	No	1,831.17	-0.54
18-1-10	2,000	0	0	0	116.035	Not Full	No	1,883.97	-0.541
19-3-08	2,000	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2,000	0	0	0	223.674	Not Full	No	1,776.33	-0.543
30-2-01	2,000	0	0	0	350.724	Not Full	Yes	1,649.28	-0.543
18-1-09	2,000	0	0	0	119.831	Not Full	No	1,880.17	-0.546
24-4-01	2,000	0	0	0	240.221	Not Full	No	1,759.78	-0.546
28-1-14	2,000	0	0	0	256.65	Not Full	No	1,743.35	-0.546
19-3-46	2,000	0	0	0	247.682	Not Full	No	1,752.32	-0.547
19-3-47	2,000	24.3	24.3	0	248.888	Not Full	No	1,751.11	-0.547
19-3-30	2,000	0	0	0	265.71	Not Full	No	1,734.29	-0.547
19-2-18	2,000	16.1	16.1	0	192.019	Not Full	No	1,807.98	-0.548

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-3-07	2,000	0	0	0	179.437	Not Full	No	1,820.56	-0.549
18-1-08	2,000	39	39	0	124.206	Not Full	No	1,875.79	-0.55
19-3-10	2,000	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-3-05	2,000	0	0	0	221.615	Not Full	No	1,778.39	-0.551
20-3-11	2,000	21.6	21.6	0	140.623	Not Full	No	1,859.38	-0.554
24-4-34	2,000	0	0	0	274.542	Not Full	No	1,725.46	-0.555
19-1-25	2,000	0	0	0	187.811	Not Full	No	1,812.19	-0.556
19-1-38	2,000	0	0	0	179.61	Not Full	No	1,820.39	-0.557
28-4-04	2,000	88.7	88.7	0	414.01	Not Full	No	1,585.99	-0.557
30-1-14	2,000	29.9	29.9	0	312.608	Not Full	No	1,687.39	-0.558
28-1-03	2,000	0	0	0	188.008	Not Full	No	1,811.99	-0.558
28-3-15	2,000	0	0	0	295.688	Not Full	No	1,704.31	-0.559
19-1-24	2,000	0	0	0	181.007	Not Full	No	1,818.99	-0.56
24-4-03	2,000	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
19-1-20	2,000	0	0	0	181.203	Not Full	No	1,818.80	-0.564
28-3-17	2,000	0	0	0	340.032	Not Full	No	1,659.97	-0.565
30-1-16	2,000	0	0	0	287	Not Full	No	1,713.00	-0.567
19-4-13	2,000	0	0	0	211.8	Not Full	No	1,788.20	-0.567
28-4-03	2,000	0	0	0	383.098	Not Full	No	1,616.90	-0.568
30-1-04	2,000	0	0	0	354.098	Not Full	Yes	1,645.90	-0.568
19-2-20	2,000	0	0	0	193.137	Not Full	No	1,806.86	-0.57
19-2-22	2,000	0	0	0	195.193	Not Full	No	1,804.81	-0.57
19-2-23	2,000	0	0	0	194.98	Not Full	No	1,805.02	-0.57
19-2-38	2,000	15.5	15.5	0	197.586	Not Full	No	1,802.41	-0.57
19-2-24	2,000	0	0	0	196.396	Not Full	No	1,803.60	-0.57
19-2-21	2,000	0	0	0	193.924	Not Full	No	1,806.08	-0.57
19-2-19	2,000	0	0	0	192.936	Not Full	No	1,807.06	-0.571
30-1-45	2,000	0	0	0	369.096	Not Full	Yes	1,630.90	-0.571
30-1-06	2,000	0	0	0	346.995	Not Full	No	1,653.01	-0.572
30-3-01	2,000	0	0	0	363.635	Not Full	No	1,636.37	-0.572
20-3-03	2,000	0	0	0	171.795	Not Full	No	1,828.21	-0.572
30-2-02	2,000	0	0	0	357.404	Not Full	No	1,642.60	-0.573
19-4-18	2,000	0	0	0	220.893	Not Full	No	1,779.11	-0.573
19-4-12	2,000	0	0	0	208.993	Not Full	No	1,791.01	-0.573
19-1-23	2,000	0	0	0	174.193	Not Full	No	1,825.81	-0.574
19-1-19	2,000	0	0	0	176.393	Not Full	No	1,823.61	-0.574
19-1-18	2,000	0	0	0	174.593	Not Full	No	1,825.41	-0.574
30-3-03	2,000	0	0	0	376.092	Not Full	No	1,623.91	-0.574
24-4-02	2,000	0	0	0	247.492	Not Full	No	1,752.51	-0.575
30-1-11	2,000	0	0	0	327.19	Not Full	No	1,672.81	-0.576
30-3-02	2,000	0	0	0	369.86	Not Full	No	1,630.14	-0.577
20-1-34	2,000	7.5	7.5	0	117.823	Not Full	No	1,882.18	-0.577
30-3-04	2,000	0	0	0	382.317	Not Full	No	1,617.68	-0.579
19-3-43	2,000	0	0	0	235.534	Not Full	No	1,764.47	-0.583

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-1-25	2,000	0	0	0	115.116	Not Full	No	1,884.88	-0.584
20-2-41	2,000	0	0	0	166.215	Not Full	No	1,833.79	-0.585
19-4-17	2,000	0	0	0	216.681	Not Full	No	1,783.32	-0.586
20-2-39	2,000	0	0	0	162.913	Not Full	No	1,837.09	-0.587
19-1-17	2,000	0	0	0	168.077	Not Full	No	1,831.92	-0.589
19-2-34	2,000	0	0	0	197.777	Not Full	No	1,802.22	-0.589
30-1-08	2,000	0	0	0	333.476	Not Full	No	1,666.52	-0.591
28-2-26	2,000	0	0	0	175.336	Not Full	No	1,824.66	-0.591
30-3-06	2,000	0	0	0	405.405	Not Full	No	1,594.60	-0.591
19-2-35	2,000	0	0	0	200.075	Not Full	No	1,799.93	-0.592
19-2-36	2,000	10.4	10.4	0	201.975	Not Full	No	1,798.03	-0.592
19-3-44	2,000	0	0	0	246.944	Not Full	No	1,753.06	-0.592
19-2-33	2,000	0	0	0	196.274	Not Full	No	1,803.73	-0.593
21-3-12	2,000	0	0	0	120.007	Not Full	Yes	1,879.99	-0.593
19-3-34	2,000	0	0	0	230.634	Not Full	No	1,769.37	-0.593
20-1-30	2,000	7.6	7.6	0	116.905	Not Full	No	1,883.10	-0.595
19-1-31	2,000	0	0	0	171.77	Not Full	No	1,828.23	-0.596
20-2-42	2,000	11.8	11.8	0	167.003	Not Full	No	1,833.00	-0.597
29-1-28	2,000	0	0	0	215.136	Not Full	No	1,784.86	-0.597
19-2-28	2,000	0	0	0	185.969	Not Full	Yes	1,814.03	-0.598
30-1-05	2,000	0	0	0	351.968	Not Full	No	1,648.03	-0.599
19-2-32	2,000	0	0	0	194.366	Not Full	No	1,805.63	-0.6
29-1-20	2,000	0	0	0	515.73	Not Full	No	1,484.27	-0.603
20-2-43	2,000	0	0	0	159.496	Not Full	No	1,840.50	-0.604
19-1-32	2,000	0	0	0	177.962	Not Full	No	1,822.04	-0.605
28-2-10	2,000	0	0	0	217.131	Not Full	No	1,782.87	-0.606
19-1-33	2,000	11.7	11.7	0	189.061	Not Full	No	1,810.94	-0.606
20-1-39	2,000	7.5	7.5	0	119.493	Not Full	No	1,880.51	-0.607
30-1-03	2,000	0	0	0	368.359	Not Full	No	1,631.64	-0.607
19-1-37	2,000	0	0	0	177.959	Not Full	No	1,822.04	-0.607
19-3-33	2,000	0	0	0	225.729	Not Full	No	1,774.27	-0.608
30-3-07	2,000	31.6	31.6	0	430.219	Not Full	No	1,569.78	-0.608
19-2-30	2,000	0	0	0	188.957	Not Full	No	1,811.04	-0.61
19-2-29	2,000	0	0	0	186.256	Not Full	No	1,813.74	-0.611
30-4-03	2,000	18.7	18.7	0	459.856	Not Full	No	1,540.14	-0.611
19-2-31	2,000	0	0	0	191.656	Not Full	No	1,808.34	-0.611
30-2-13	2,000	0	0	0	261.621	Not Full	Yes	1,738.38	-0.612
17-2-11	2,000	0	0	0	75.407	Not Full	No	1,924.59	-0.613
29-1-18	2,000	0	0	0	483.318	Not Full	No	1,516.68	-0.615
17-2-06	2,000	0	0	0	87.874	Not Full	No	1,912.13	-0.616
30-4-01	2,000	0	0	0	395.45	Not Full	No	1,604.55	-0.616
19-4-42	2,000	0	0	0	186.916	Not Full	No	1,813.08	-0.618
17-2-07	2,000	0	0	0	87.272	Not Full	No	1,912.73	-0.618
30-4-02	2,000	0	0	0	437.049	Not Full	No	1,562.95	-0.618

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-1-26	2,000	7.6	7.6	0	115.78	Not Full	No	1,884.22	-0.62
17-2-05	2,000	0	0	0	89.179	Not Full	Yes	1,910.82	-0.621
17-2-10	2,000	0	0	0	76.675	Not Full	Yes	1,923.33	-0.625
17-2-08	2,000	0	0	0	85.481	Not Full	No	1,914.52	-0.629
20-4-07	2,000	0	0	0	122.569	Not Full	No	1,877.43	-0.631
17-3-04	2,000	0	0	0	90.466	Not Full	No	1,909.53	-0.634
20-3-04	2,000	0	0	0	168.466	Not Full	No	1,831.53	-0.634
19-1-13	2,000	0	0	0	149.532	Not Full	No	1,850.47	-0.635
19-1-14	2,000	0	0	0	153.631	Not Full	No	1,846.37	-0.636
19-1-15	2,000	2.3	2.3	0	159.129	Not Full	No	1,840.87	-0.638
20-4-06	2,000	0	0	0	121.061	Not Full	No	1,878.94	-0.639
20-4-17	2,000	52.5	52.5	0	205.992	Not Full	No	1,794.01	-0.642
30-2-18	2,000	0	0	0	289.238	Not Full	No	1,710.76	-0.645
30-2-17	2,000	0	0	0	286.887	Not Full	No	1,713.11	-0.647
29-1-16	2,000	0	0	0	476.486	Not Full	No	1,523.51	-0.647
20-1-38	2,000	0	0	0	118.653	Not Full	No	1,881.35	-0.647
20-4-42	2,000	0	0	0	124.051	Not Full	Yes	1,875.95	-0.649
20-4-18	2,000	0	0	0	207.18	Not Full	No	1,792.82	-0.653
30-2-32	2,000	0	0	0	277.579	Not Full	No	1,722.42	-0.654
20-3-15	2,000	0	0	0	172.393	Not Full	No	1,827.61	-0.657
19-1-11	2,000	0	0	0	167.173	Not Full	Yes	1,832.83	-0.66
20-3-10	2,000	0	0	0	177.039	Not Full	No	1,822.96	-0.661
29-1-06	2,000	0	0	0	437.471	Not Full	No	1,562.53	-0.663
17-2-04	2,000	0	0	0	106.735	Not Full	No	1,893.27	-0.665
28-2-01	2,000	0	0	0	278.5	Not Full	No	1,721.50	-0.667
28-2-02	2,000	0	0	0	369.5	Not Full	No	1,630.50	-0.667
19-1-34	2,000	0	0	0	194.3	Not Full	No	1,805.70	-0.667
28-2-03	2,000	0	0	0	375.77	Not Full	No	1,624.23	-0.667
27-2-09	2,000	0	0	0	201.88	Not Full	No	1,798.12	-0.667
27-2-08	2,000	0	0	0	217.96	Not Full	No	1,782.04	-0.667
28-4-05	2,000	0	0	0	435	Not Full	No	1,565.00	-0.667
19-1-35	2,000	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-2-04	2,000	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-3-56	2,000	0	0	0	445.47	Not Full	No	1,554.53	-0.667
28-2-11	2,000	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-3-18	2,000	0	0	0	427.08	Not Full	No	1,572.92	-0.667
20-4-37	2,000	0	0	0	115.81	Not Full	No	1,884.19	-0.667
20-4-36	2,000	0	0	0	116.77	Not Full	No	1,883.23	-0.667
19-1-36	2,000	0	0	0	202.81	Not Full	No	1,797.19	-0.667
27-2-07	2,000	0	0	0	228.99	Not Full	No	1,771.01	-0.667
19-2-52	2,000	0	0	0	175.53	Not Full	No	1,824.47	-0.667
28-3-55	2,000	0	0	0	443.9	Not Full	No	1,556.10	-0.667
28-3-53	2,000	0	0	0	441.24	Not Full	No	1,558.76	-0.667
28-3-54	2,000	0	0	0	442.39	Not Full	No	1,557.61	-0.667

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-2-23	2,000	85.5	85.5	0	303.136	Not Full	No	1,696.86	-0.668
18-1-04	2,000	0	0	0	134.23	Not Full	Yes	1,865.77	-0.67
20-2-05	2,000	0	0	0	134.178	Not Full	Yes	1,865.82	-0.672
17-3-01	2,000	0	0	0	104.028	Not Full	No	1,895.97	-0.672
20-3-08	2,000	12.7	12.7	0	174.125	Not Full	No	1,825.88	-0.675
30-2-16	2,000	0	0	0	286.458	Not Full	No	1,713.54	-0.676
29-1-02	2,000	0	0	0	254.157	Not Full	No	1,745.84	-0.676
20-2-25	2,000	5.8	5.8	0	140.333	Not Full	Yes	1,859.67	-0.677
28-3-52	2,000	0	0	0	436.12	Not Full	No	1,563.88	-0.679
18-1-07	2,000	0	0	0	141.217	Not Full	Yes	1,858.78	-0.683
29-1-07	2,000	0	0	0	467.749	Not Full	No	1,532.25	-0.685
30-2-15	2,000	0	0	0	281.999	Not Full	No	1,718.00	-0.685
19-1-05	2,000	0	0	0	153.446	Not Full	Yes	1,846.55	-0.687
19-1-04	2,000	0	0	0	151.846	Not Full	No	1,848.15	-0.687
30-2-20	2,000	0	0	0	296.596	Not Full	No	1,703.40	-0.688
30-2-19	2,000	0	0	0	291.776	Not Full	No	1,708.22	-0.688
20-1-51	2,000	0	0	0	118.789	Not Full	No	1,881.21	-0.691
20-2-17	2,000	5.9	5.9	0	137.619	Not Full	Yes	1,862.38	-0.691
19-2-46	2,000	0	0	0	176.14	Not Full	No	1,823.86	-0.693
30-2-21	2,000	0	0	0	301.04	Not Full	No	1,698.96	-0.693
20-2-04	2,000	11.1	11.1	0	132.656	Not Full	No	1,867.34	-0.694
18-1-05	2,000	0	0	0	135.406	Not Full	No	1,864.59	-0.694
19-1-07	2,000	0	0	0	157.639	Not Full	No	1,842.36	-0.694
18-1-18	2,000	0	0	0	112.227	Not Full	No	1,887.77	-0.696
19-1-03	2,000	0	0	0	150.237	Not Full	No	1,849.76	-0.697
17-2-16	2,000	0	0	0	110.985	Not Full	Yes	1,889.02	-0.698
29-1-03	2,000	0	0	0	353.334	Not Full	No	1,646.67	-0.7
20-2-46	2,000	0	0	0	135.91	Not Full	No	1,864.09	-0.7
29-1-19	2,000	0	0	0	507.232	Not Full	No	1,492.77	-0.701
19-1-02	2,000	0	0	0	148.131	Not Full	No	1,851.87	-0.702
17-2-18	2,000	0	0	0	107.969	Not Full	Yes	1,892.03	-0.704
21-2-06	2,000	0	0	0	55.995	Not Full	Yes	1,944.01	-0.705
30-2-14	2,000	0	0	0	276.387	Not Full	No	1,723.61	-0.707
17-2-03	2,000	0	0	0	109.89	Not Full	No	1,890.11	-0.71
17-2-23	2,000	0	0	0	96.243	Not Full	No	1,903.76	-0.711
17-3-02	2,000	9.9	9.9	0	101.289	Not Full	No	1,898.71	-0.711
17-2-30	2,000	0	0	0	79.772	Not Full	No	1,920.23	-0.711
18-1-03	2,000	0	0	0	132.389	Not Full	No	1,867.61	-0.711
17-2-24	2,000	0	0	0	94.002	Not Full	No	1,906.00	-0.711
17-2-25	2,000	0	0	0	91.722	Not Full	No	1,908.28	-0.711
21-1-01	2,000	0	0	0	52.938	Not Full	No	1,947.06	-0.712
17-2-29	2,000	0	0	0	81.572	Not Full	No	1,918.43	-0.712
17-2-22	2,000	0	0	0	98.561	Not Full	No	1,901.44	-0.712
17-2-09	2,000	0	0	0	83.588	Not Full	No	1,916.41	-0.712

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-01	2,000	0	0	0	124.587	Not Full	No	1,875.41	-0.713
17-2-26	2,000	0	0	0	89.07	Not Full	No	1,910.93	-0.713
17-2-02	2,000	0	0	0	115.685	Not Full	No	1,884.32	-0.715
19-1-08	2,000	0	0	0	161.617	Not Full	No	1,838.38	-0.716
17-2-01	2,000	0	0	0	121.584	Not Full	No	1,878.42	-0.716
20-4-13	2,000	0	0	0	127.883	Not Full	No	1,872.12	-0.717
17-2-21	2,000	0	0	0	100.885	Not Full	No	1,899.12	-0.718
20-2-34	2,000	26.2	26.2	0	153.531	Not Full	No	1,846.47	-0.719
20-4-12	2,000	0	0	0	125.881	Not Full	No	1,874.12	-0.719
18-1-21	2,000	0	0	0	128.679	Not Full	No	1,871.32	-0.721
29-1-05	2,000	0	0	0	420.611	Not Full	No	1,579.39	-0.722
17-2-19	2,000	0	0	0	107.111	Not Full	No	1,892.89	-0.722
19-1-06	2,000	0	0	0	157.011	Not Full	No	1,842.99	-0.723
17-2-27	2,000	0	0	0	86.88	Not Full	No	1,913.12	-0.723
17-2-32	2,000	0	0	0	75.46	Not Full	No	1,924.54	-0.724
17-2-17	2,000	0	0	0	109.81	Not Full	No	1,890.19	-0.724
17-2-28	2,000	0	0	0	84.219	Not Full	No	1,915.78	-0.724
19-1-10	2,000	0	0	0	166.409	Not Full	No	1,833.59	-0.725
18-1-06	2,000	0	0	0	138.874	Not Full	No	1,861.13	-0.726
17-3-03	2,000	0	0	0	95.473	Not Full	No	1,904.53	-0.727
17-2-20	2,000	0	0	0	103.846	Not Full	No	1,896.15	-0.728
20-2-32	2,000	7.6	7.6	0	151.621	Not Full	No	1,848.38	-0.729
17-2-33	2,000	0	0	0	77.703	Not Full	No	1,922.30	-0.73
19-1-26	2,000	0	0	0	169.069	Not Full	No	1,830.93	-0.731
18-1-19	2,000	0	0	0	111.6	Not Full	No	1,888.40	-0.733
20-2-38	2,000	0	0	0	156.213	Not Full	No	1,843.79	-0.737
17-2-31	2,000	0	0	0	76.245	Not Full	No	1,923.76	-0.738
19-1-22	2,000	0	0	0	166.059	Not Full	No	1,833.94	-0.741
18-1-02	2,000	0	0	0	127.458	Not Full	No	1,872.54	-0.742
21-2-03	2,000	0	0	0	77.655	Not Full	Yes	1,922.35	-0.745
20-1-49	2,000	0	0	0	127.983	Not Full	No	1,872.02	-0.747
20-1-50	2,000	0	0	0	123.352	Not Full	No	1,876.65	-0.748
21-4-04	2,000	0	0	0	147.452	Not Full	Yes	1,852.55	-0.748
21-4-02	2,000	0	0	0	131.751	Not Full	No	1,868.25	-0.749
18-3-32	2,000	73.5	73.5	0	150.234	Not Full	No	1,849.77	-0.756
21-3-29	2,000	0	0	0	116.387	Not Full	No	1,883.61	-0.756
18-4-01	2,000	0	0	0	141.74	Not Full	No	1,858.26	-0.76
18-4-04	2,000	0	0	0	153.332	Not Full	No	1,846.67	-0.768
28-1-11	2,000	0	0	0	217.732	Not Full	No	1,782.27	-0.768
18-4-03	2,000	0	0	0	150.03	Not Full	No	1,849.97	-0.77
28-2-09	2,000	0	0	0	221.338	Not Full	No	1,778.66	-0.776
28-4-07	2,000	25.6	25.6	0	238.158	Not Full	No	1,761.84	-0.776
21-3-30	2,000	0	0	0	142.207	Not Full	No	1,857.79	-0.777
18-3-35	2,000	0	0	0	144.311	Not Full	No	1,855.69	-0.779

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-3-43	2,000	0	0	0	151.454	Not Full	No	1,848.55	-0.779
G&OADD	2,000	4.6	4.6	0	127.46	Not Full	No	1,872.54	-0.78
21-3-11	2,000	4.3	4.3	0	113.92	Not Full	No	1,886.08	-0.78
18-3-38	2,000	0	0	0	144.952	Not Full	Yes	1,855.05	-0.788
18-3-36	2,000	0	0	0	143.659	Not Full	No	1,856.34	-0.791
21-3-31	2,000	0	0	0	110.947	Not Full	No	1,889.05	-0.793
18-3-01	2,000	0	0	0	153.806	Not Full	No	1,846.19	-0.794
20-2-21	2,000	0	0	0	139.516	Not Full	No	1,860.48	-0.794
21-3-17	2,000	0	0	0	119.29	Not Full	No	1,880.71	-0.8
18-4-02	2,000	0	0	0	145.488	Not Full	No	1,854.51	-0.812
28-1-10	2,000	0	0	0	216.586	Not Full	No	1,783.41	-0.814
18-3-37	2,000	0	0	0	142.734	Not Full	No	1,857.27	-0.816
18-3-10	2,000	113	113	0	162.394	Not Full	No	1,837.61	-0.816
20-4-15	2,000	0	0	0	139.483	Not Full	No	1,860.52	-0.817
24-1-15	2,000	0	0	0	251.574	Not Full	No	1,748.43	-0.826
24-1-16	2,000	147.8	147.8	0	261.639	Not Full	No	1,738.36	-0.841
20-4-16	2,000	0	0	0	186.352	Not Full	No	1,813.65	-0.848
19-2-53	2,000	0	0	0	170.952	Not Full	No	1,829.05	-0.858
28-1-09	2,000	0	0	0	214.027	Not Full	No	1,785.97	-0.873
18-3-33	2,000	0	0	0	149.385	Not Full	No	1,850.62	-0.875
20-2-29	2,000	6.4	6.4	0	149.354	Not Full	No	1,850.65	-0.896
20-2-28	2,000	0	0	0	147.414	Not Full	No	1,852.59	-0.896
20-2-08	2,000	0	0	0	137.301	Not Full	No	1,862.70	-0.899
20-2-07	2,000	0	0	0	135.901	Not Full	No	1,864.10	-0.899
28-1-13	2,000	0	0	0	239.401	Not Full	No	1,760.60	-0.899
20-2-06	2,000	0	0	0	134.5	Not Full	No	1,865.50	-0.9
20-2-09	2,000	0	0	0	138.1	Not Full	No	1,861.90	-0.9
20-2-10	2,000	0	0	0	139.495	Not Full	No	1,860.51	-0.905
21-2-22	2,000	0	0	0	76.981	Not Full	No	1,923.02	-0.919
21-2-01	2,000	0	0	0	96.858	Not Full	No	1,903.14	-0.922
21-2-02	2,000	0	0	0	90.718	Not Full	No	1,909.28	-0.922
20-1-07	2,000	0	0	0	113.177	Not Full	No	1,886.82	-0.923
21-3-02	2,000	0	0	0	69.124	Not Full	No	1,930.88	-0.926
21-4-03	2,000	0	0	0	144.673	Not Full	No	1,855.33	-0.927
21-3-05	2,000	7.3	7.3	0	104.207	Not Full	No	1,895.79	-0.943
19-1-16	2,000	0	0	0	159.291	Not Full	No	1,840.71	-0.959
21-3-10	2,000	0	0	0	107.524	Not Full	No	1,892.48	-0.976
19-1-40	2,000	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-03	2,000	0	0	0	75.237	Not Full	No	1,924.76	-1.013
21-3-04	2,000	0	0	0	99.986	Not Full	No	1,900.01	-1.064
21-1-02	2,000	0	0	0	49.425	Not Full	No	1,950.58	-1.175
21-1-09	2,000	0	0	0	56.195	Not Full	No	1,943.81	-1.185
21-1-10	2,000	0	0	0	58.794	Not Full	No	1,941.21	-1.186
21-1-08	2,000	0	0	0	54.364	Not Full	No	1,945.64	-1.186

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-08	2,000	0	0	0	60.764	Not Full	No	1,939.24	-1.186
21-2-07	2,000	0	0	0	59.463	Not Full	No	1,940.54	-1.187
21-2-11	2,000	0	0	0	65.675	Not Full	No	1,934.33	-1.195
21-3-01	2,000	0	0	0	67.785	Not Full	No	1,932.22	-1.195
21-3-28	2,000	0	0	0	108.122	Not Full	Yes	1,891.88	-1.318
21-1-06	2,000	0	0	0	49.258	Not Full	No	1,950.74	-1.342
21-3-07	2,000	9	9	0	111.166	Not Full	No	1,888.83	-1.344
21-3-08	2,000	0	0	0	108.806	Not Full	No	1,891.19	-1.344
21-3-13	2,000	0	0	0	110.726	Not Full	No	1,889.27	-1.344
21-3-09	2,000	0	0	0	108.626	Not Full	No	1,891.37	-1.344
21-3-06	2,000	0	0	0	112.626	Not Full	No	1,887.37	-1.354
20-4-24	2,000	0	0	0	113.886	Not Full	No	1,886.11	-1.354
WITHOUT Carlsborg Flows									
17-4-01	2000	8	8	0	161.997	Not Full	No	1838.003	9.497
27-2-05	2000	12.6	12.6	0	238.978	Not Full	No	1761.022	4.501
20-1-06	2000	5.4	5.4	0	101.666	Not Full	No	1898.334	4.039
17-2-13	2000	0	0	0	75.115	Not Full	No	1,924.89	0.695
17-2-14	2000	0	0	0	75.09	Not Full	Yes	1,924.91	0.37
21-4-20	2000	0	0	0	177.814	Not Full	Yes	1,822.19	0.107
17-2-12	2000	0	0	0	75.262	Not Full	No	1,924.74	-0.158
19-4-25	2000	0	0	0	200.434	Not Full	Yes	1,799.57	-0.233
20-1-19	2000	0	0	0	114.592	Not Full	Yes	1,885.41	-0.258
19-2-44	2000	0	0	0	176.576	Not Full	Yes	1,823.42	-0.29
19-4-22	2000	0	0	0	184.751	Not Full	No	1,815.25	-0.316
19-4-47	2000	0	0	0	187.528	Not Full	No	1,812.47	-0.339
19-4-46	2000	0	0	0	187.277	Not Full	No	1,812.72	-0.339
29-3-16	2000	0	0	0	524.126	Not Full	No	1,475.87	-0.341
30-2-25	2000	0	0	0	258.562	Not Full	No	1,741.44	-0.365
30-2-12	2000	31	31	0	260.842	Not Full	No	1,739.16	-0.365
30-2-11	2000	0	0	0	259.831	Not Full	No	1,740.17	-0.365
19-4-23	2000	0	0	0	192.598	Not Full	No	1,807.40	-0.369
19-4-24	2000	0	0	0	200.098	Not Full	No	1,799.90	-0.369
19-4-26	2000	0	0	0	205.494	Not Full	No	1,794.51	-0.373
19-4-32	2000	0	0	0	212.786	Not Full	No	1,787.21	-0.381
19-4-27	2000	0	0	0	209.385	Not Full	No	1,790.62	-0.381
19-4-33	2000	18.9	18.9	0	215.583	Not Full	No	1,784.42	-0.384
28-1-12	2000	38.1	38.1	0	218.882	Not Full	Yes	1,781.12	-0.385
20-1-13	2000	0	0	0	113.959	Not Full	No	1,886.04	-0.391
19-1-30	2000	0	0	0	190.669	Not Full	No	1,809.33	-0.398
19-4-49	2000	0	0	0	189.969	Not Full	Yes	1,810.03	-0.398
30-1-41	2000	0	0	0	215.938	Not Full	Yes	1,784.06	-0.398
19-4-34	2000	0	0	0	218.967	Not Full	No	1,781.03	-0.4
19-2-54	2000	0	0	0	200.264	Not Full	No	1,799.74	-0.403
19-2-16	2000	0	0	0	203.052	Not Full	No	1,796.95	-0.405

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-15	2000	15	15	0	206.992	Not Full	No	1,793.01	-0.405
19-2-17	2000	0	0	0	197.361	Not Full	No	1,802.64	-0.405
28-1-20	2000	0	0	0	185.829	Not Full	Yes	1,814.17	-0.408
19-2-59	2000	0	0	0	199.249	Not Full	No	1,800.75	-0.408
28-1-31	2000	0	0	0	209.266	Not Full	Yes	1,790.73	-0.411
20-3-01	2000	0	0	0	167.388	Not Full	Yes	1,832.61	-0.412
19-4-40	2000	1.8	1.8	0	225.053	Not Full	No	1,774.95	-0.413
20-3-06	2000	0	0	0	170.72	Not Full	No	1,829.28	-0.413
21-4-24	2000	0	0	0	179.192	Not Full	Yes	1,820.81	-0.415
19-2-12	2000	0	0	0	210.16	Not Full	No	1,789.84	-0.417
19-1-29	2000	5.4	5.4	0	185.45	Not Full	No	1,814.55	-0.417
24-1-26	2000	0	0	0	228.269	Not Full	No	1,771.73	-0.417
24-1-05	2000	0	0	0	231.369	Not Full	No	1,768.63	-0.418
24-1-02	2000	0	0	0	238.199	Not Full	No	1,761.80	-0.418
24-1-07	2000	0	0	0	225.009	Not Full	No	1,774.99	-0.418
24-1-01	2000	0	0	0	241.269	Not Full	No	1,758.73	-0.418
21-4-05	2000	0	0	0	132.459	Not Full	Yes	1,867.54	-0.418
19-2-56	2000	0	0	0	217.608	Not Full	No	1,782.39	-0.418
19-2-10	2000	0	0	0	213.808	Not Full	No	1,786.19	-0.418
19-2-11	2000	0	0	0	212.658	Not Full	No	1,787.34	-0.418
24-2-54	2000	0	0	0	221.088	Not Full	No	1,778.91	-0.418
24-1-14	2000	0	0	0	243.148	Not Full	No	1,756.85	-0.419
19-2-14	2000	0	0	0	208.448	Not Full	No	1,791.55	-0.419
24-1-08	2000	0	0	0	222.048	Not Full	No	1,777.95	-0.419
24-1-03	2000	0	0	0	235.268	Not Full	No	1,764.73	-0.419
24-1-13	2000	0	0	0	233.568	Not Full	No	1,766.43	-0.419
24-1-06	2000	0	0	0	225.847	Not Full	No	1,774.15	-0.419
19-1-28	2000	0	0	0	180.747	Not Full	No	1,819.25	-0.42
28-1-01	2000	0	0	0	149.945	Not Full	No	1,850.06	-0.421
G&OADD1	2000	0	0	0	232.444	Not Full	No	1,767.56	-0.422
27-2-21	2000	0	0	0	192.431	Not Full	No	1,807.57	-0.425
27-2-18	2000	0	0	0	189.42	Not Full	Yes	1,810.58	-0.427
27-2-20	2000	0	0	0	191.7	Not Full	No	1,808.30	-0.427
27-2-22	2000	0	0	0	193.2	Not Full	No	1,806.80	-0.427
27-2-23	2000	95.2	95.2	0	193.9	Not Full	No	1,806.10	-0.427
19-4-48	2000	0	0	0	188.939	Not Full	No	1,811.06	-0.428
29-3-15	2000	0	0	0	530.234	Not Full	No	1,469.77	-0.432
29-3-12	2000	0	0	0	588.281	Not Full	No	1,411.72	-0.435
19-2-62	2000	0	0	0	183.852	Not Full	No	1,816.15	-0.445
19-3-26	2000	0	0	0	251.239	Not Full	No	1,748.76	-0.448
21-4-09	2000	0	0	0	141.814	Not Full	No	1,858.19	-0.453
27-2-02	2000	0	0	0	225.838	Not Full	No	1,774.16	-0.459
28-1-30	2000	0	0	0	207.528	Not Full	No	1,792.47	-0.459
19-1-27	2000	0	0	0	177.807	Not Full	No	1,822.19	-0.46

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-4-21	2000	0	0	0	178.606	Not Full	No	1,821.39	-0.461
21-4-10	2000	0	0	0	155.204	Not Full	No	1,844.80	-0.462
21-4-06	2000	0	0	0	135.624	Not Full	No	1,864.38	-0.463
19-2-71	2000	61.7	61.7	0	184.514	Not Full	No	1,815.49	-0.463
18-4-25	2000	0	0	0	130.701	Not Full	No	1,869.30	-0.465
19-4-51	2000	0	0	0	239.801	Not Full	No	1,760.20	-0.465
18-4-23	2000	0	0	0	124.5	Not Full	No	1,875.50	-0.467
18-4-24	2000	0	0	0	127.698	Not Full	No	1,872.30	-0.468
27-2-03	2000	0	0	0	227.428	Not Full	No	1,772.57	-0.469
29-2-43	2000	117.4	117.4	0	221.655	Not Full	No	1,778.35	-0.472
30-1-20	2000	0	0	0	216.764	Not Full	No	1,783.24	-0.472
28-3-12	2000	0	0	0	266.94	Not Full	No	1,733.06	-0.477
19-2-39	2000	0	0	0	182.899	Not Full	No	1,817.10	-0.478
19-3-27	2000	0	0	0	257.648	Not Full	No	1,742.35	-0.479
29-3-17	2000	0	0	0	520.953	Not Full	Yes	1,479.05	-0.48
20-4-31	2000	0	0	0	114.527	Not Full	No	1,885.47	-0.48
20-4-35	2000	58.9	58.9	0	117.037	Not Full	No	1,882.96	-0.48
18-4-05	2000	0	0	0	138.186	Not Full	No	1,861.81	-0.481
18-4-26	2000	0	0	0	135.083	Not Full	No	1,864.92	-0.484
21-4-08	2000	0	0	0	141.131	Not Full	No	1,858.87	-0.485
29-3-09	2000	233.1	233.1	0	664.081	Not Full	No	1,335.92	-0.486
27-2-19	2000	0	0	0	190.38	Not Full	No	1,809.62	-0.486
18-4-27	2000	43.5	43.5	0	142.48	Not Full	No	1,857.52	-0.486
29-3-18	2000	0	0	0	519.347	Not Full	No	1,480.65	-0.487
29-1-17	2000	0	0	0	478.446	Not Full	Yes	1,521.55	-0.487
29-3-11	2000	0	0	0	609.228	Not Full	No	1,390.77	-0.489
29-1-21	2000	0	0	0	517.642	Not Full	No	1,482.36	-0.491
28-1-19	2000	0	0	0	185.394	Not Full	No	1,814.61	-0.492
29-3-14	2000	0	0	0	550.673	Not Full	No	1,449.33	-0.494
19-4-44	2000	0	0	0	247.17	Not Full	No	1,752.83	-0.497
29-3-10	2000	0	0	0	646.219	Not Full	No	1,353.78	-0.498
19-3-04	2000	29.8	29.8	0	217.337	Not Full	No	1,782.66	-0.5
19-3-36	2000	0	0	0	214.417	Not Full	No	1,785.58	-0.5
19-3-03	2000	0	0	0	212.117	Not Full	No	1,787.88	-0.5
19-3-37	2000	0	0	0	210.137	Not Full	No	1,789.86	-0.5
20-3-02	2000	0	0	0	174.065	Not Full	No	1,825.94	-0.502
19-3-01	2000	0	0	0	207.072	Not Full	No	1,792.93	-0.504
21-2-21	2000	22.3	22.3	0	63.472	Not Full	No	1,936.53	-0.504
20-2-40	2000	0	0	0	164.595	Not Full	Yes	1,835.41	-0.505
19-4-05	2000	0	0	0	206.371	Not Full	No	1,793.63	-0.506
19-3-02	2000	0	0	0	208.55	Not Full	No	1,791.45	-0.507
29-3-13	2000	0	0	0	579.158	Not Full	No	1,420.84	-0.509
19-4-01	2000	0	0	0	178.558	Not Full	No	1,821.44	-0.509
19-4-04	2000	0	0	0	199.957	Not Full	No	1,800.04	-0.51

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-02	2000	0	0	0	183.257	Not Full	No	1,816.74	-0.51
28-4-02	2000	0	0	0	264.086	Not Full	No	1,735.91	-0.51
19-4-03	2000	0	0	0	191.655	Not Full	No	1,808.35	-0.512
30-1-18	2000	0	0	0	242.752	Not Full	No	1,757.25	-0.515
27-2-04	2000	0	0	0	233.011	Not Full	No	1,766.99	-0.516
19-4-50	2000	0	0	0	204.65	Not Full	No	1,795.35	-0.516
18-1-11	2000	0	0	0	113.007	Not Full	Yes	1,886.99	-0.519
28-1-02	2000	0	0	0	162.245	Not Full	No	1,837.76	-0.521
21-4-11	2000	0	0	0	154.845	Not Full	No	1,845.16	-0.522
19-1-01	2000	0	0	0	145.944	Not Full	No	1,854.06	-0.523
19-1-21	2000	11.8	11.8	0	181.343	Not Full	No	1,818.66	-0.524
27-2-10	2000	0	0	0	188.472	Not Full	No	1,811.53	-0.525
19-4-11	2000	27.5	27.5	0	206.541	Not Full	No	1,793.46	-0.526
21-4-19	2000	0	0	0	177.161	Not Full	No	1,822.84	-0.526
27-2-11	2000	0	0	0	181.19	Not Full	No	1,818.81	-0.527
19-4-08	2000	0	0	0	194.139	Not Full	No	1,805.86	-0.528
19-2-40	2000	0	0	0	181.929	Not Full	No	1,818.07	-0.528
19-4-45	2000	0	0	0	236.839	Not Full	No	1,763.16	-0.528
30-1-17	2000	0	0	0	252.238	Not Full	No	1,747.76	-0.529
30-1-15	2000	0	0	0	295.237	Not Full	No	1,704.76	-0.53
19-4-07	2000	0	0	0	187.136	Not Full	No	1,812.86	-0.531
21-4-07	2000	0	0	0	138.735	Not Full	No	1,861.27	-0.531
28-1-29	2000	0	0	0	204.593	Not Full	No	1,795.41	-0.534
27-2-12	2000	0	0	0	175.233	Not Full	No	1,824.77	-0.534
19-4-09	2000	0	0	0	202.333	Not Full	No	1,797.67	-0.534
28-3-14	2000	0	0	0	278.913	Not Full	No	1,721.09	-0.534
21-4-18	2000	0	0	0	168.462	Not Full	No	1,831.54	-0.535
30-3-05	2000	0	0	0	383.001	Not Full	Yes	1,617.00	-0.535
19-3-11	2000	0	0	0	235.001	Not Full	No	1,765.00	-0.536
19-3-09	2000	0	0	0	228.071	Not Full	No	1,771.93	-0.536
19-3-31	2000	0	0	0	266.12	Not Full	No	1,733.88	-0.537
28-1-04	2000	0	0	0	201.03	Not Full	No	1,798.97	-0.537
30-1-07	2000	0	0	0	349.129	Not Full	No	1,650.87	-0.538
30-1-19	2000	0	0	0	214.379	Not Full	No	1,785.62	-0.538
19-3-32	2000	0	0	0	267.709	Not Full	No	1,732.29	-0.538
19-3-28	2000	0	0	0	262.599	Not Full	No	1,737.40	-0.538
24-4-26	2000	0	0	0	270.288	Not Full	No	1,729.71	-0.538
24-4-27	2000	0	0	0	269.368	Not Full	No	1,730.63	-0.538
24-4-25	2000	0	0	0	271.888	Not Full	No	1,728.11	-0.538
24-4-24	2000	0	0	0	273.078	Not Full	Yes	1,726.92	-0.538
27-2-01	2000	0	0	0	224.758	Not Full	No	1,775.24	-0.539
19-4-06	2000	0	0	0	180.447	Not Full	No	1,819.55	-0.539
24-4-39	2000	27.9	27.9	0	277.327	Not Full	No	1,722.67	-0.54
19-1-12	2000	48.1	48.1	0	168.827	Not Full	No	1,831.17	-0.54

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-10	2000	0	0	0	116.035	Not Full	No	1,883.97	-0.541
19-3-08	2000	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2000	0	0	0	223.674	Not Full	No	1,776.33	-0.543
30-2-01	2000	0	0	0	350.724	Not Full	Yes	1,649.28	-0.543
18-1-09	2000	0	0	0	119.831	Not Full	No	1,880.17	-0.546
24-4-01	2000	0	0	0	240.221	Not Full	No	1,759.78	-0.546
28-1-14	2000	0	0	0	256.65	Not Full	No	1,743.35	-0.546
19-3-46	2000	0	0	0	247.682	Not Full	No	1,752.32	-0.547
19-3-47	2000	24.3	24.3	0	248.888	Not Full	No	1,751.11	-0.547
19-3-30	2000	0	0	0	265.71	Not Full	No	1,734.29	-0.547
19-2-18	2000	16.1	16.1	0	192.019	Not Full	No	1,807.98	-0.548
20-3-07	2000	0	0	0	179.437	Not Full	No	1,820.56	-0.549
18-1-08	2000	39	39	0	124.206	Not Full	No	1,875.79	-0.55
19-3-10	2000	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-3-05	2000	0	0	0	221.615	Not Full	No	1,778.39	-0.551
20-3-11	2000	21.6	21.6	0	140.623	Not Full	No	1,859.38	-0.554
24-4-34	2000	0	0	0	274.542	Not Full	No	1,725.46	-0.555
19-1-25	2000	0	0	0	187.811	Not Full	No	1,812.19	-0.556
19-1-38	2000	0	0	0	179.61	Not Full	No	1,820.39	-0.557
28-4-04	2000	88.7	88.7	0	414.01	Not Full	No	1,585.99	-0.557
30-1-14	2000	29.9	29.9	0	312.608	Not Full	No	1,687.39	-0.558
28-1-03	2000	0	0	0	188.008	Not Full	No	1,811.99	-0.558
28-3-15	2000	0	0	0	295.688	Not Full	No	1,704.31	-0.559
19-1-24	2000	0	0	0	181.007	Not Full	No	1,818.99	-0.56
24-4-03	2000	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
19-1-20	2000	0	0	0	181.203	Not Full	No	1,818.80	-0.564
28-3-17	2000	0	0	0	340.032	Not Full	No	1,659.97	-0.565
30-1-16	2000	0	0	0	287	Not Full	No	1,713.00	-0.567
19-4-13	2000	0	0	0	211.8	Not Full	No	1,788.20	-0.567
28-4-03	2000	0	0	0	383.098	Not Full	No	1,616.90	-0.568
30-1-04	2000	0	0	0	354.098	Not Full	Yes	1,645.90	-0.568
19-2-20	2000	0	0	0	193.137	Not Full	No	1,806.86	-0.57
19-2-22	2000	0	0	0	195.193	Not Full	No	1,804.81	-0.57
19-2-38	2000	15.5	15.5	0	197.586	Not Full	No	1,802.41	-0.57
19-2-23	2000	0	0	0	194.98	Not Full	No	1,805.02	-0.57
19-2-24	2000	0	0	0	196.396	Not Full	No	1,803.60	-0.57
19-2-21	2000	0	0	0	193.924	Not Full	No	1,806.08	-0.57
19-2-19	2000	0	0	0	192.936	Not Full	No	1,807.06	-0.571
30-1-45	2000	0	0	0	369.096	Not Full	Yes	1,630.90	-0.571
30-1-06	2000	0	0	0	346.995	Not Full	No	1,653.01	-0.572
30-3-01	2000	0	0	0	363.635	Not Full	No	1,636.37	-0.572
20-3-03	2000	0	0	0	171.795	Not Full	No	1,828.21	-0.572
30-2-02	2000	0	0	0	357.404	Not Full	No	1,642.60	-0.573
19-4-18	2000	0	0	0	220.893	Not Full	No	1,779.11	-0.573

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-12	2000	0	0	0	208.993	Not Full	No	1,791.01	-0.573
19-1-23	2000	0	0	0	174.193	Not Full	No	1,825.81	-0.574
19-1-19	2000	0	0	0	176.393	Not Full	No	1,823.61	-0.574
19-1-18	2000	0	0	0	174.593	Not Full	No	1,825.41	-0.574
30-3-03	2000	0	0	0	376.092	Not Full	No	1,623.91	-0.574
24-4-02	2000	0	0	0	247.492	Not Full	No	1,752.51	-0.575
30-1-11	2000	0	0	0	327.19	Not Full	No	1,672.81	-0.576
30-3-02	2000	0	0	0	369.86	Not Full	No	1,630.14	-0.577
20-1-34	2000	7.5	7.5	0	117.823	Not Full	No	1,882.18	-0.577
30-3-04	2000	0	0	0	382.317	Not Full	No	1,617.68	-0.579
19-3-43	2000	0	0	0	235.534	Not Full	No	1,764.47	-0.583
20-1-25	2000	0	0	0	115.116	Not Full	No	1,884.88	-0.584
20-2-41	2000	0	0	0	166.215	Not Full	No	1,833.79	-0.585
19-4-17	2000	0	0	0	216.681	Not Full	No	1,783.32	-0.586
20-2-39	2000	0	0	0	162.913	Not Full	No	1,837.09	-0.587
19-1-17	2000	0	0	0	168.077	Not Full	No	1,831.92	-0.589
19-2-34	2000	0	0	0	197.777	Not Full	No	1,802.22	-0.589
30-1-08	2000	0	0	0	333.476	Not Full	No	1,666.52	-0.591
28-2-26	2000	0	0	0	175.336	Not Full	No	1,824.66	-0.591
30-3-06	2000	0	0	0	405.405	Not Full	No	1,594.60	-0.591
19-2-35	2000	0	0	0	200.075	Not Full	No	1,799.93	-0.592
19-2-36	2000	10.4	10.4	0	201.975	Not Full	No	1,798.03	-0.592
19-3-44	2000	0	0	0	246.944	Not Full	No	1,753.06	-0.592
19-2-33	2000	0	0	0	196.274	Not Full	No	1,803.73	-0.593
21-3-12	2000	0	0	0	120.007	Not Full	Yes	1,879.99	-0.593
19-3-34	2000	0	0	0	230.634	Not Full	No	1,769.37	-0.593
20-1-30	2000	7.6	7.6	0	116.905	Not Full	No	1,883.10	-0.595
19-1-31	2000	0	0	0	171.77	Not Full	No	1,828.23	-0.596
20-2-42	2000	11.8	11.8	0	167.003	Not Full	No	1,833.00	-0.597
29-1-28	2000	0	0	0	215.136	Not Full	No	1,784.86	-0.597
19-2-28	2000	0	0	0	185.969	Not Full	Yes	1,814.03	-0.598
30-1-05	2000	0	0	0	351.968	Not Full	No	1,648.03	-0.599
19-2-32	2000	0	0	0	194.366	Not Full	No	1,805.63	-0.6
29-1-20	2000	0	0	0	515.73	Not Full	No	1,484.27	-0.603
20-2-43	2000	0	0	0	159.496	Not Full	No	1,840.50	-0.604
20-1-20	2000	7.1	7.1	0	114.595	Not Full	No	1,885.41	-0.605
19-1-32	2000	0	0	0	177.962	Not Full	No	1,822.04	-0.605
28-2-10	2000	0	0	0	217.131	Not Full	No	1,782.87	-0.606
19-1-33	2000	11.7	11.7	0	189.061	Not Full	No	1,810.94	-0.606
20-1-39	2000	7.5	7.5	0	119.493	Not Full	No	1,880.51	-0.607
30-1-03	2000	0	0	0	368.359	Not Full	No	1,631.64	-0.607
19-1-37	2000	0	0	0	177.959	Not Full	No	1,822.04	-0.607
19-3-33	2000	0	0	0	225.729	Not Full	No	1,774.27	-0.608
30-3-07	2000	31.6	31.6	0	430.219	Not Full	No	1,569.78	-0.608

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-30	2000	0	0	0	188.957	Not Full	No	1,811.04	-0.61
19-2-29	2000	0	0	0	186.256	Not Full	No	1,813.74	-0.611
30-4-03	2000	18.7	18.7	0	459.856	Not Full	No	1,540.14	-0.611
19-2-31	2000	0	0	0	191.656	Not Full	No	1,808.34	-0.611
30-2-13	2000	0	0	0	261.621	Not Full	Yes	1,738.38	-0.612
17-2-11	2000	0	0	0	75.407	Not Full	No	1,924.59	-0.613
29-1-18	2000	0	0	0	483.318	Not Full	No	1,516.68	-0.615
17-2-06	2000	0	0	0	87.874	Not Full	No	1,912.13	-0.616
30-4-01	2000	0	0	0	395.45	Not Full	No	1,604.55	-0.616
19-4-42	2000	0	0	0	186.916	Not Full	No	1,813.08	-0.618
17-2-07	2000	0	0	0	87.272	Not Full	No	1,912.73	-0.618
30-4-02	2000	0	0	0	437.049	Not Full	No	1,562.95	-0.618
20-1-26	2000	7.6	7.6	0	115.78	Not Full	No	1,884.22	-0.62
17-2-05	2000	0	0	0	89.179	Not Full	Yes	1,910.82	-0.621
17-2-10	2000	0	0	0	76.675	Not Full	Yes	1,923.33	-0.625
17-2-08	2000	0	0	0	85.481	Not Full	No	1,914.52	-0.629
20-4-07	2000	0	0	0	122.569	Not Full	No	1,877.43	-0.631
17-3-04	2000	0	0	0	90.466	Not Full	No	1,909.53	-0.634
20-3-04	2000	0	0	0	168.466	Not Full	No	1,831.53	-0.634
19-1-13	2000	0	0	0	149.532	Not Full	No	1,850.47	-0.635
19-1-14	2000	0	0	0	153.631	Not Full	No	1,846.37	-0.636
19-1-15	2000	2.3	2.3	0	159.129	Not Full	No	1,840.87	-0.638
20-4-06	2000	0	0	0	121.061	Not Full	No	1,878.94	-0.639
20-4-17	2000	52.5	52.5	0	205.992	Not Full	No	1,794.01	-0.642
30-2-18	2000	0	0	0	289.238	Not Full	No	1,710.76	-0.645
30-2-17	2000	0	0	0	286.887	Not Full	No	1,713.11	-0.647
29-1-16	2000	0	0	0	476.486	Not Full	No	1,523.51	-0.647
20-1-38	2000	0	0	0	118.653	Not Full	No	1,881.35	-0.647
20-4-42	2000	0	0	0	124.051	Not Full	Yes	1,875.95	-0.649
20-4-18	2000	0	0	0	207.18	Not Full	No	1,792.82	-0.653
30-2-32	2000	0	0	0	277.579	Not Full	No	1,722.42	-0.654
20-3-15	2000	0	0	0	172.393	Not Full	No	1,827.61	-0.657
19-1-11	2000	0	0	0	167.173	Not Full	Yes	1,832.83	-0.66
20-3-10	2000	0	0	0	177.039	Not Full	No	1,822.96	-0.661
29-1-06	2000	0	0	0	437.471	Not Full	No	1,562.53	-0.663
17-2-04	2000	0	0	0	106.735	Not Full	No	1,893.27	-0.665
19-1-34	2000	0	0	0	194.3	Not Full	No	1,805.70	-0.667
28-3-56	2000	0	0	0	445.47	Not Full	No	1,554.53	-0.667
28-3-55	2000	0	0	0	443.9	Not Full	No	1,556.10	-0.667
20-4-37	2000	0	0	0	115.81	Not Full	No	1,884.19	-0.667
19-1-35	2000	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-2-01	2000	0	0	0	278.5	Not Full	No	1,721.50	-0.667
28-4-05	2000	0	0	0	435	Not Full	No	1,565.00	-0.667
28-2-03	2000	0	0	0	375.77	Not Full	No	1,624.23	-0.667

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-2-04	2000	0	0	0	379.92	Not Full	No	1,620.08	-0.667
27-2-09	2000	0	0	0	201.88	Not Full	No	1,798.12	-0.667
28-2-11	2000	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-3-18	2000	0	0	0	427.08	Not Full	No	1,572.92	-0.667
28-2-02	2000	0	0	0	369.5	Not Full	No	1,630.50	-0.667
19-2-52	2000	0	0	0	175.53	Not Full	No	1,824.47	-0.667
20-4-36	2000	0	0	0	116.77	Not Full	No	1,883.23	-0.667
28-3-54	2000	0	0	0	442.39	Not Full	No	1,557.61	-0.667
27-2-08	2000	0	0	0	217.96	Not Full	No	1,782.04	-0.667
19-1-36	2000	0	0	0	202.81	Not Full	No	1,797.19	-0.667
28-3-53	2000	0	0	0	441.24	Not Full	No	1,558.76	-0.667
27-2-07	2000	0	0	0	228.99	Not Full	No	1,771.01	-0.667
30-2-23	2000	85.5	85.5	0	303.136	Not Full	No	1,696.86	-0.668
18-1-04	2000	0	0	0	134.23	Not Full	Yes	1,865.77	-0.67
17-3-01	2000	0	0	0	104.028	Not Full	No	1,895.97	-0.672
20-3-08	2000	12.7	12.7	0	174.125	Not Full	No	1,825.88	-0.675
30-2-16	2000	0	0	0	286.458	Not Full	No	1,713.54	-0.676
29-1-02	2000	0	0	0	254.157	Not Full	No	1,745.84	-0.676
28-3-52	2000	0	0	0	436.12	Not Full	No	1,563.88	-0.679
18-1-07	2000	0	0	0	141.217	Not Full	Yes	1,858.78	-0.683
29-1-07	2000	0	0	0	467.749	Not Full	No	1,532.25	-0.685
30-2-15	2000	0	0	0	281.999	Not Full	No	1,718.00	-0.685
19-1-05	2000	0	0	0	153.446	Not Full	Yes	1,846.55	-0.687
19-1-04	2000	0	0	0	151.846	Not Full	No	1,848.15	-0.687
30-2-20	2000	0	0	0	296.596	Not Full	No	1,703.40	-0.688
30-2-19	2000	0	0	0	291.776	Not Full	No	1,708.22	-0.688
19-2-46	2000	0	0	0	176.14	Not Full	No	1,823.86	-0.693
30-2-21	2000	0	0	0	301.04	Not Full	No	1,698.96	-0.693
18-1-05	2000	0	0	0	135.406	Not Full	No	1,864.59	-0.694
19-1-07	2000	0	0	0	157.639	Not Full	No	1,842.36	-0.694
20-2-05	2000	0	0	0	134.154	Not Full	Yes	1,865.85	-0.696
18-1-18	2000	0	0	0	112.227	Not Full	No	1,887.77	-0.696
19-1-03	2000	0	0	0	150.237	Not Full	No	1,849.76	-0.697
17-2-16	2000	0	0	0	110.985	Not Full	Yes	1,889.02	-0.698
29-1-03	2000	0	0	0	353.334	Not Full	No	1,646.67	-0.7
29-1-19	2000	0	0	0	507.232	Not Full	No	1,492.77	-0.701
20-2-25	2000	5.8	5.8	0	140.309	Not Full	Yes	1,859.69	-0.701
19-1-02	2000	0	0	0	148.131	Not Full	No	1,851.87	-0.702
17-2-18	2000	0	0	0	107.969	Not Full	Yes	1,892.03	-0.704
20-1-51	2000	0	0	0	118.774	Not Full	No	1,881.23	-0.706
30-2-14	2000	0	0	0	276.387	Not Full	No	1,723.61	-0.707
20-2-04	2000	11.1	11.1	0	132.641	Not Full	No	1,867.36	-0.709
17-2-03	2000	0	0	0	109.89	Not Full	No	1,890.11	-0.71
17-2-23	2000	0	0	0	96.243	Not Full	No	1,903.76	-0.711

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
17-3-02	2000	9.9	9.9	0	101.289	Not Full	No	1,898.71	-0.711
17-2-30	2000	0	0	0	79.772	Not Full	No	1,920.23	-0.711
18-1-03	2000	0	0	0	132.389	Not Full	No	1,867.61	-0.711
17-2-24	2000	0	0	0	94.002	Not Full	No	1,906.00	-0.711
17-2-25	2000	0	0	0	91.722	Not Full	No	1,908.28	-0.711
17-2-29	2000	0	0	0	81.572	Not Full	No	1,918.43	-0.712
17-2-22	2000	0	0	0	98.561	Not Full	No	1,901.44	-0.712
17-2-09	2000	0	0	0	83.588	Not Full	No	1,916.41	-0.712
18-1-01	2000	0	0	0	124.587	Not Full	No	1,875.41	-0.713
17-2-26	2000	0	0	0	89.07	Not Full	No	1,910.93	-0.713
20-2-17	2000	5.9	5.9	0	137.595	Not Full	Yes	1,862.41	-0.715
17-2-02	2000	0	0	0	115.685	Not Full	No	1,884.32	-0.715
19-1-08	2000	0	0	0	161.617	Not Full	No	1,838.38	-0.716
17-2-01	2000	0	0	0	121.584	Not Full	No	1,878.42	-0.716
20-4-13	2000	0	0	0	127.883	Not Full	No	1,872.12	-0.717
17-2-21	2000	0	0	0	100.885	Not Full	No	1,899.12	-0.718
20-4-12	2000	0	0	0	125.881	Not Full	No	1,874.12	-0.719
18-1-21	2000	0	0	0	128.679	Not Full	No	1,871.32	-0.721
29-1-05	2000	0	0	0	420.611	Not Full	No	1,579.39	-0.722
17-2-19	2000	0	0	0	107.111	Not Full	No	1,892.89	-0.722
19-1-06	2000	0	0	0	157.011	Not Full	No	1,842.99	-0.723
20-2-46	2000	0	0	0	135.887	Not Full	No	1,864.11	-0.723
17-2-27	2000	0	0	0	86.88	Not Full	No	1,913.12	-0.723
17-2-32	2000	0	0	0	75.46	Not Full	No	1,924.54	-0.724
21-2-06	2000	0	0	0	55.976	Not Full	Yes	1,944.02	-0.724
17-2-17	2000	0	0	0	109.81	Not Full	No	1,890.19	-0.724
17-2-28	2000	0	0	0	84.219	Not Full	No	1,915.78	-0.724
19-1-10	2000	0	0	0	166.409	Not Full	No	1,833.59	-0.725
18-1-06	2000	0	0	0	138.874	Not Full	No	1,861.13	-0.726
17-3-03	2000	0	0	0	95.473	Not Full	No	1,904.53	-0.727
17-2-20	2000	0	0	0	103.846	Not Full	No	1,896.15	-0.728
17-2-33	2000	0	0	0	77.703	Not Full	No	1,922.30	-0.73
21-1-01	2000	0	0	0	52.92	Not Full	No	1,947.08	-0.73
18-1-19	2000	0	0	0	111.6	Not Full	No	1,888.40	-0.733
17-2-31	2000	0	0	0	76.245	Not Full	No	1,923.76	-0.738
20-2-34	2000	26.2	26.2	0	153.509	Not Full	No	1,846.49	-0.741
18-1-02	2000	0	0	0	127.458	Not Full	No	1,872.54	-0.742
21-4-04	2000	0	0	0	147.452	Not Full	Yes	1,852.55	-0.748
21-4-02	2000	0	0	0	131.751	Not Full	No	1,868.25	-0.749
20-2-32	2000	7.6	7.6	0	151.599	Not Full	No	1,848.40	-0.751
18-3-32	2000	73.5	73.5	0	150.234	Not Full	No	1,849.77	-0.756
21-3-29	2000	0	0	0	116.387	Not Full	No	1,883.61	-0.756
20-2-38	2000	0	0	0	156.191	Not Full	No	1,843.81	-0.759
18-4-01	2000	0	0	0	141.74	Not Full	No	1,858.26	-0.76

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-1-49	2000	0	0	0	127.97	Not Full	No	1,872.03	-0.76
20-1-50	2000	0	0	0	123.339	Not Full	No	1,876.66	-0.761
21-2-03	2000	0	0	0	77.638	Not Full	Yes	1,922.36	-0.762
18-4-04	2000	0	0	0	153.332	Not Full	No	1,846.67	-0.768
19-1-26	2000	0	0	0	169.032	Not Full	No	1,830.97	-0.768
28-1-11	2000	0	0	0	217.732	Not Full	No	1,782.27	-0.768
18-4-03	2000	0	0	0	150.03	Not Full	No	1,849.97	-0.77
19-1-22	2000	0	0	0	166.028	Not Full	No	1,833.97	-0.772
28-2-09	2000	0	0	0	221.338	Not Full	No	1,778.66	-0.776
28-4-07	2000	25.6	25.6	0	238.158	Not Full	No	1,761.84	-0.776
21-3-30	2000	0	0	0	142.207	Not Full	No	1,857.79	-0.777
18-3-35	2000	0	0	0	144.311	Not Full	No	1,855.69	-0.779
21-3-43	2000	0	0	0	151.454	Not Full	No	1,848.55	-0.779
G&OADD	2000	4.6	4.6	0	127.46	Not Full	No	1,872.54	-0.78
21-3-11	2000	4.3	4.3	0	113.92	Not Full	No	1,886.08	-0.78
18-3-38	2000	0	0	0	144.952	Not Full	Yes	1,855.05	-0.788
18-3-36	2000	0	0	0	143.659	Not Full	No	1,856.34	-0.791
21-3-31	2000	0	0	0	110.947	Not Full	No	1,889.05	-0.793
18-3-01	2000	0	0	0	153.806	Not Full	No	1,846.19	-0.794
21-3-17	2000	0	0	0	119.29	Not Full	No	1,880.71	-0.8
18-4-02	2000	0	0	0	145.488	Not Full	No	1,854.51	-0.812
20-2-21	2000	0	0	0	139.497	Not Full	No	1,860.50	-0.813
28-1-10	2000	0	0	0	216.586	Not Full	No	1,783.41	-0.814
18-3-37	2000	0	0	0	142.734	Not Full	No	1,857.27	-0.816
18-3-10	2000	113	113	0	162.394	Not Full	No	1,837.61	-0.816
20-4-15	2000	0	0	0	139.483	Not Full	No	1,860.52	-0.817
24-1-15	2000	0	0	0	251.574	Not Full	No	1,748.43	-0.826
24-1-16	2000	147.8	147.8	0	261.639	Not Full	No	1,738.36	-0.841
20-4-16	2000	0	0	0	186.352	Not Full	No	1,813.65	-0.848
19-2-53	2000	0	0	0	170.952	Not Full	No	1,829.05	-0.858
28-1-09	2000	0	0	0	214.027	Not Full	No	1,785.97	-0.873
18-3-33	2000	0	0	0	149.385	Not Full	No	1,850.62	-0.875
20-2-08	2000	0	0	0	137.301	Not Full	No	1,862.70	-0.899
20-2-07	2000	0	0	0	135.901	Not Full	No	1,864.10	-0.899
28-1-13	2000	0	0	0	239.401	Not Full	No	1,760.60	-0.899
20-2-06	2000	0	0	0	134.5	Not Full	No	1,865.50	-0.9
20-2-09	2000	0	0	0	138.1	Not Full	No	1,861.90	-0.9
20-2-10	2000	0	0	0	139.495	Not Full	No	1,860.51	-0.905
20-2-29	2000	6.4	6.4	0	149.34	Not Full	No	1,850.66	-0.91
20-2-28	2000	0	0	0	147.4	Not Full	No	1,852.60	-0.91
21-3-02	2000	0	0	0	69.124	Not Full	No	1,930.88	-0.926
21-4-03	2000	0	0	0	144.673	Not Full	No	1,855.33	-0.927
21-2-22	2000	0	0	0	76.969	Not Full	No	1,923.03	-0.931
21-2-01	2000	0	0	0	96.846	Not Full	No	1,903.15	-0.934

TABLE E-10

City of Sequim Existing Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-02	2000	0	0	0	90.705	Not Full	No	1,909.30	-0.935
20-1-07	2000	0	0	0	113.165	Not Full	No	1,886.84	-0.935
21-3-05	2000	7.3	7.3	0	104.207	Not Full	No	1,895.79	-0.943
21-3-10	2000	0	0	0	107.524	Not Full	No	1,892.48	-0.976
19-1-16	2000	0	0	0	159.258	Not Full	No	1,840.74	-0.992
19-1-40	2000	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-03	2000	0	0	0	75.237	Not Full	No	1,924.76	-1.013
21-3-04	2000	0	0	0	99.986	Not Full	No	1,900.01	-1.064
21-1-02	2000	0	0	0	49.419	Not Full	No	1,950.58	-1.181
21-1-09	2000	0	0	0	56.195	Not Full	No	1,943.81	-1.185
21-1-10	2000	0	0	0	58.794	Not Full	No	1,941.21	-1.186
21-1-08	2000	0	0	0	54.364	Not Full	No	1,945.64	-1.186
21-2-08	2000	0	0	0	60.764	Not Full	No	1,939.24	-1.186
21-2-07	2000	0	0	0	59.463	Not Full	No	1,940.54	-1.187
21-2-11	2000	0	0	0	65.675	Not Full	No	1,934.33	-1.195
21-3-01	2000	0	0	0	67.785	Not Full	No	1,932.22	-1.195
21-3-28	2000	0	0	0	108.122	Not Full	Yes	1,891.88	-1.318
21-1-06	2000	0	0	0	49.258	Not Full	No	1,950.74	-1.342
21-3-07	2000	9	9	0	111.166	Not Full	No	1,888.83	-1.344
21-3-08	2000	0	0	0	108.806	Not Full	No	1,891.19	-1.344
21-3-13	2000	0	0	0	110.726	Not Full	No	1,889.27	-1.344
21-3-09	2000	0	0	0	108.626	Not Full	No	1,891.37	-1.344
21-3-06	2000	0	0	0	112.626	Not Full	No	1,887.37	-1.354
20-4-24	2000	0	0	0	113.886	Not Full	No	1,886.11	-1.354

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
WITH Carlsborg Flows											
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1161	20-1-19	20-1-13	15	165.416	0	1612.799	2.928	1	1.01	1.25	1,598.26
1263	21-4-20	21-4-19	8	323.279	0	107.8	0.688	1	2.52	0.667	42.773
1158	20-1-06	21-2-01	8	57.456	0.01	1618.199	10.329	1	2.74	0.667	591.598
1160	20-1-13	20-1-07	15	117.439	0	1,612.80	3.866	0.71	0.85	0.885	1,896.84
1141	19-4-25	19-4-24	8	56.351	0	245.3	2.274	0.65	0.76	0.434	323.97
1193	20-3-01	20-2-42	12	87.82	0	498.3	2.312	0.59	0.65	0.588	765.137
1091	19-2-44	19-2-46	8	579.954	0	61.7	0.677	0.57	0.61	0.376	100.985
1226	21-2-06	21-1-01	18	790.804	0	1,618.20	3.791	0.53	0.55	0.795	2,935.75
1138	19-4-22	20-3-10	8	512.576	0.02	362.7	4.344	0.53	0.54	0.351	666.508
1217	21-1-01	21-1-02	18	769.455	0	1,618.20	3.831	0.53	0.54	0.788	2,976.20
1197	20-3-06	20-3-04	10	300.724	0.01	427.2	3.456	0.5	0.51	0.42	843.327
1225	21-2-03	21-2-22	18	109	0.01	1,618.20	4.048	0.5	0.51	0.755	3,201.67
1188	20-2-40	20-2-39	12	382.757	0	510.1	2.929	0.5	0.49	0.495	1,036.62
1153	19-4-47	19-4-46	8	126.27	0	117.4	1.533	0.49	0.49	0.328	241.969
1152	19-4-46	19-4-42	8	125.896	0	117.4	1.534	0.49	0.48	0.327	242.328
1363	29-3-16	29-3-17	8	401.862	0.01	233.1	3.066	0.49	0.48	0.326	485.261
1055	19-1-30	19-1-29	8	678.565	0.01	225.3	2.997	0.48	0.47	0.323	476.042
1095	19-2-54	19-2-59	8	122.685	0.01	225.3	3.078	0.47	0.46	0.316	493.406
1070	19-2-16	19-2-54	8	329.97	0.01	225.3	3.109	0.47	0.45	0.314	500.039
1069	19-2-15	19-2-16	8	465.861	0.01	225.3	3.109	0.47	0.45	0.314	500.103
1071	19-2-17	19-1-30	8	787.887	0.01	225.3	3.115	0.47	0.45	0.313	501.469
1097	19-2-59	19-2-17	8	213.617	0.01	225.3	3.161	0.47	0.44	0.31	511.507
1173	20-2-05	20-2-04	15	311.909	0.01	879.8	3.536	0.46	0.44	0.578	2,015.97
1181	20-2-25	20-2-21	15	150.591	0.01	852.3	3.463	0.46	0.43	0.573	1,981.99
1397	30-2-25	19-3-27	8	201.839	0	144.4	2.092	0.45	0.42	0.302	342.359
1385	30-2-12	30-2-11	8	253.12	0	144.4	2.098	0.45	0.42	0.302	343.507
1384	30-2-11	30-2-25	8	317.001	0	144.4	2.101	0.45	0.42	0.301	344.2
1171	20-1-51	20-1-19	15	399.329	0.01	1,289.90	5.409	0.45	0.41	0.559	3,130.23

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1139	19-4-23	19-4-22	8	659	0.01	245.3	3.617	0.45	0.41	0.298	595.401
1179	20-2-17	20-2-46	15	330.36	0.01	858.2	3.602	0.45	0.41	0.559	2,085.37
1140	19-4-24	19-4-23	8	622.555	0.01	245.3	3.623	0.45	0.41	0.298	596.872
1054	19-1-29	19-1-28	8	438.473	0.01	230.7	3.415	0.45	0.41	0.297	563.01
1172	20-2-04	20-1-49	15	390.979	0.01	1,289.90	5.447	0.45	0.41	0.556	3,160.06
1142	19-4-26	19-4-25	8	412.69	0.01	245.3	3.684	0.44	0.4	0.294	610.42
1053	19-1-28	19-1-27	8	259.296	0.01	230.7	3.469	0.44	0.4	0.294	575.095
1192	20-2-46	20-2-05	15	322.684	0.01	858.2	3.68	0.44	0.4	0.55	2,146.94
969	17-2-12	17-2-13	12	303.616	0	352	2.436	0.43	0.38	0.429	920.151
1144	19-4-32	19-4-27	8	244.428	0.01	245.3	3.82	0.43	0.38	0.286	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	245.3	3.834	0.43	0.38	0.285	644.544
1185	20-2-34	20-2-32	15	328.102	0.01	832.5	3.732	0.43	0.38	0.531	2,212.20
1145	19-4-33	19-4-32	8	193.37	0.01	245.3	3.877	0.42	0.38	0.283	654.371
1364	29-3-17	29-3-18	10	402.175	0	233.1	2.358	0.42	0.38	0.353	621.901
1312	28-1-12	28-1-11	8	281.382	0	126.8	2.012	0.42	0.37	0.282	340.007
1166	20-1-34	20-1-30	12	354.986	0	300.6	2.122	0.42	0.37	0.423	807.304
1184	20-2-32	20-2-29	15	331.328	0.01	840.1	3.867	0.42	0.36	0.521	2,314.37
1163	20-1-25	20-1-20	12	169.112	0	315.8	2.275	0.42	0.36	0.416	871.805
1365	29-3-18	29-1-21	10	398.124	0	233.1	2.42	0.42	0.36	0.347	644.294
1349	29-1-17	29-1-16	10	418.361	0	233.1	2.427	0.42	0.36	0.346	646.739
1189	20-2-41	20-2-40	12	217.516	0.01	510.1	3.692	0.42	0.36	0.415	1,417.43
1187	20-2-39	20-2-43	12	427.648	0.01	510.1	3.715	0.41	0.36	0.413	1,429.61
1353	29-1-21	29-1-20	10	402.791	0	233.1	2.461	0.41	0.35	0.342	659.121
1186	20-2-38	20-2-34	15	438.816	0.01	806.3	3.783	0.41	0.35	0.513	2,280.30
1242	21-3-12	21-3-17	12	222.893	0	239.2	1.775	0.41	0.35	0.407	687.646
1165	20-1-30	20-1-26	12	354.769	0	308.2	2.3	0.41	0.35	0.405	892.782
1190	20-2-42	20-2-41	12	92.525	0.01	510.1	3.831	0.4	0.34	0.403	1,490.86
1155	19-4-49	19-4-48	8	250.077	0	117.4	1.987	0.4	0.34	0.269	343.876
1380	30-1-41	30-1-19	8	354.251	0	117.4	1.989	0.4	0.34	0.268	344.293
1169	20-1-49	20-1-50	15	273.274	0.02	1,289.90	6.217	0.4	0.34	0.503	3,783.93

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1170	20-1-50	20-1-51	15	271.108	0.02	1,289.90	6.23	0.4	0.34	0.502	3,794.91
1146	19-4-34	19-4-33	8	222.441	0.02	226.4	3.871	0.4	0.34	0.267	672.312
1191	20-2-43	20-2-38	12	369.052	0.01	510.1	3.921	0.4	0.33	0.396	1,538.93
1162	20-1-20	20-1-19	12	160.958	0	322.9	2.491	0.4	0.33	0.395	978.905
1168	20-1-39	20-1-38	12	255.284	0	293.1	2.278	0.39	0.33	0.393	897.542
1317	28-1-20	28-1-19	8	64.719	0	107.8	1.918	0.39	0.32	0.259	337.98
1230	21-2-22	21-2-06	18	1,831.00	0.01	1,618.20	5.697	0.39	0.32	0.581	5,086.60
968	17-2-11	17-2-12	12	104.09	0.01	352	2.797	0.39	0.32	0.387	1,111.22
1223	21-2-01	21-2-02	18	518.06	0.01	1,618.20	5.745	0.39	0.31	0.578	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	1,618.20	5.749	0.39	0.31	0.578	5,150.85
1292	27-2-05	27-2-04	8	212.723	0	107.8	1.941	0.39	0.31	0.256	343.749
1159	20-1-07	20-1-06	18	1,319.26	0.01	1,612.80	5.741	0.38	0.31	0.577	5,147.03
963	17-2-06	17-2-07	12	101.697	0.01	352	2.82	0.38	0.31	0.384	1,124.22
1314	28-1-31	28-1-30	8	394.454	0	107.8	1.947	0.38	0.31	0.256	345.255
964	17-2-07	17-2-08	12	334.55	0.01	352	2.842	0.38	0.31	0.382	1,136.18
1147	19-4-40	19-4-34	8	331.621	0.02	226.4	4.141	0.38	0.31	0.253	737.535
1164	20-1-26	20-1-25	12	169.233	0	315.8	2.571	0.38	0.31	0.38	1,031.17
962	17-2-05	17-2-06	12	232.966	0.01	352	2.877	0.38	0.31	0.379	1,155.49
1265	21-4-24	21-4-21	8	126.481	0	107.8	1.989	0.38	0.3	0.252	355.323
1067	19-2-12	19-2-14	8	206.905	0.01	147.8	2.756	0.38	0.3	0.25	494.369
967	17-2-10	17-2-11	12	218.347	0.01	352	2.919	0.38	0.3	0.375	1,178.66
1277	24-1-26	24-1-06	8	289.66	0.01	147.8	2.766	0.37	0.3	0.249	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	147.8	2.769	0.37	0.3	0.249	497.667
1267	24-1-02	24-1-03	8	348.953	0.01	147.8	2.772	0.37	0.3	0.249	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	147.8	2.772	0.37	0.3	0.249	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	147.8	2.774	0.37	0.3	0.249	498.946
1254	21-4-05	21-4-02	8	158.26	0	107.8	2.025	0.37	0.3	0.249	364.236
971	17-2-14	PWPS	12	184.844	0.01	352	2.941	0.37	0.3	0.373	1,191.02
1096	19-2-56	19-2-10	8	449.312	0.01	147.8	2.779	0.37	0.3	0.248	500.1
1065	19-2-10	19-2-11	8	135.736	0.01	147.8	2.78	0.37	0.3	0.248	500.541

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1066	19-2-11	19-2-12	8	294.868	0.01	147.8	2.781	0.37	0.3	0.248	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	147.8	2.782	0.37	0.3	0.248	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	147.8	2.787	0.37	0.29	0.248	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	147.8	2.787	0.37	0.29	0.248	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	147.8	2.789	0.37	0.29	0.248	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	147.8	2.789	0.37	0.29	0.248	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	147.8	2.789	0.37	0.29	0.248	502.741
965	17-2-08	17-2-09	12	306.365	0.01	352	2.954	0.37	0.29	0.371	1,197.84
1270	24-1-06	24-1-07	8	97.95	0.01	147.8	2.793	0.37	0.29	0.247	503.589
1204	20-4-07	20-4-06	12	397.849	0	285.6	2.419	0.37	0.29	0.369	984.482
1305	28-1-01	21-4-04	8	383.288	0.01	126.8	2.425	0.37	0.29	0.245	439.184
1052	19-1-27	19-1-26	8	403.413	0.02	230.7	4.428	0.37	0.29	0.245	803.166
1149	G&OADD2	19-4-40	8	356.5	0.02	224.6	4.317	0.37	0.29	0.244	783.474
994	17-3-04	17-2-05	12	221.097	0.01	352	3.01	0.37	0.29	0.366	1,229.42
1196	20-3-04	20-3-01	12	110.258	0.01	498.3	4.262	0.37	0.29	0.366	1,740.95
1180	20-2-21	20-2-17	15	187.297	0.01	852.3	4.695	0.36	0.28	0.456	3,004.01
1302	27-2-21	27-2-20	8	161.176	0	95.2	1.861	0.36	0.28	0.241	339.984
1203	20-4-06	20-1-39	12	392	0	285.6	2.49	0.36	0.28	0.361	1,024.33
1299	27-2-18	27-2-10	8	188.538	0	95.2	1.873	0.36	0.28	0.24	342.981
1301	27-2-20	27-2-19	8	289.947	0	95.2	1.877	0.36	0.28	0.24	343.961
1303	27-2-22	27-2-21	8	167.014	0	95.2	1.879	0.36	0.28	0.24	344.429
1304	27-2-23	27-2-22	8	149.448	0	95.2	1.879	0.36	0.28	0.24	344.564
1154	19-4-48	19-4-47	8	241.949	0.01	117.4	2.331	0.36	0.27	0.239	428.176
1167	20-1-38	20-1-34	12	191.441	0.01	293.1	2.639	0.35	0.27	0.353	1,099.32
1362	29-3-15	29-3-16	8	237.428	0.03	233.1	4.74	0.35	0.27	0.234	878.756
1216	20-4-42	20-4-07	12	329.641	0.01	285.6	2.589	0.35	0.26	0.351	1,081.55
1359	29-3-12	29-3-13	8	328.996	0.03	233.1	4.83	0.35	0.26	0.231	901.92
1202	20-3-15	20-3-06	12	203.572	0.01	375.4	3.515	0.34	0.25	0.343	1,486.56
1200	20-3-10	20-3-08	12	348.384	0.01	362.7	3.442	0.34	0.25	0.339	1,462.82
961	17-2-04	17-3-01	12	345.616	0.01	342.1	3.309	0.34	0.24	0.335	1,417.12

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1098	19-2-62	19-2-39	8	362.45	0	61.7	1.355	0.33	0.24	0.222	258.656
998	18-1-04	18-1-03	12	300.784	0	248.2	2.444	0.33	0.24	0.33	1,054.06
1110	19-3-26	19-4-44	8	285.064	0.01	144.4	3.23	0.33	0.23	0.219	621.212
991	17-3-01	17-3-02	12	318.869	0.01	342.1	3.407	0.33	0.23	0.328	1,475.36
1199	20-3-08	20-3-15	12	166.018	0.01	375.4	3.783	0.33	0.23	0.325	1,646.13
1258	21-4-09	21-4-08	8	50.49	0.01	107.8	2.487	0.32	0.22	0.214	484.022
1001	18-1-07	18-1-06	12	453.25	0.01	248.2	2.59	0.32	0.22	0.317	1,142.13
1289	27-2-02	27-2-01	8	113.774	0.01	107.8	2.581	0.31	0.21	0.208	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	107.8	2.582	0.31	0.21	0.208	510.101
1264	21-4-21	21-4-20	8	149.173	0.01	107.8	2.615	0.31	0.21	0.206	519.235
1259	21-4-10	21-4-11	8	31.731	0.01	107.8	2.649	0.31	0.2	0.204	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	107.8	2.654	0.31	0.2	0.204	530.03
999	18-1-05	18-1-04	12	206.235	0.01	248.2	2.72	0.31	0.2	0.306	1,223.01
1099	19-2-71	19-2-62	8	185.256	0	61.7	1.522	0.31	0.2	0.204	304.275
1024	18-4-25	18-4-24	8	397.125	0.01	93.9	2.351	0.3	0.2	0.201	472.646
1157	19-4-51	G&OADD2	8	411.715	0.02	144.4	3.623	0.3	0.2	0.201	729.048
1022	18-4-23	17-2-01	8	384.354	0.01	93.9	2.379	0.3	0.2	0.2	480.434
1023	18-4-24	18-4-23	8	399.081	0.01	93.9	2.402	0.3	0.19	0.198	486.949
970	17-2-13	17-2-14	12	53.433	0.01	352	4.017	0.3	0.19	0.297	1,835.12
1290	27-2-03	27-2-02	8	149.302	0.01	107.8	2.771	0.3	0.19	0.198	562.945
1355	29-2-43	30-1-20	8	362.02	0.01	117.4	3.084	0.29	0.19	0.195	632.015
1379	30-1-20	30-1-41	8	66.423	0.01	117.4	3.088	0.29	0.19	0.194	632.995
960	17-2-03	17-2-04	12	237.625	0.01	342.1	4.024	0.29	0.18	0.29	1,860.59
992	17-3-02	17-3-03	12	398.981	0.02	352	4.169	0.29	0.18	0.289	1,933.12
997	18-1-03	18-1-21	12	510.506	0.01	248.2	2.943	0.29	0.18	0.289	1,364.97
2	17-4-01	20-2-04	12	1,022.00	0.02	399	4.753	0.29	0.18	0.288	2,209.01
966	17-2-09	17-2-10	12	472.423	0.02	352	4.198	0.29	0.18	0.288	1,951.66
995	18-1-01	17-2-01	12	406.186	0.01	248.2	2.963	0.29	0.18	0.287	1,377.91
959	17-2-02	17-2-03	12	400.873	0.01	342.1	4.129	0.29	0.18	0.285	1,928.56
1328	28-3-12	28-4-02	8	320.055	0.01	88.7	2.413	0.29	0.18	0.19	501.316

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
958	17-2-01	17-2-02	12	399.079	0.02	342.1	4.16	0.28	0.18	0.284	1,949.48
1354	29-1-28	20-4-18	10	434.841	0.02	233.1	4.083	0.28	0.18	0.236	1,328.98
1206	20-4-13	20-4-12	12	193.1	0.01	285.6	3.48	0.28	0.18	0.283	1,631.72
1089	19-2-39	19-2-40	8	218.916	0	61.7	1.692	0.28	0.18	0.189	352.528
1183	20-2-29	20-2-28	15	69.913	0.03	846.5	6.607	0.28	0.18	0.354	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	846.5	6.609	0.28	0.18	0.354	4,845.04
1111	19-3-27	19-3-26	8	266.061	0.02	144.4	3.985	0.28	0.17	0.188	832.801
1205	20-4-12	20-4-42	12	178.123	0.01	285.6	3.516	0.28	0.17	0.281	1,655.92
1213	20-4-35	20-4-31	8	628.236	0	58.9	1.639	0.28	0.17	0.187	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	58.9	1.639	0.28	0.17	0.187	343.737
1008	18-1-21	18-1-02	12	145.768	0.01	248.2	3.08	0.28	0.17	0.279	1,454.73
1021	18-4-05	18-4-26	8	297.552	0.01	93.9	2.638	0.28	0.17	0.186	555.058
1352	29-1-20	29-1-19	10	419.219	0.02	233.1	4.229	0.28	0.17	0.23	1,395.69
1000	18-1-06	18-1-05	12	395.427	0.01	248.2	3.161	0.27	0.17	0.274	1,508.42
1025	18-4-26	18-4-25	8	396.401	0.01	93.9	2.698	0.27	0.16	0.183	572.925
993	17-3-03	17-3-04	12	281.199	0.02	352	4.512	0.27	0.16	0.273	2,159.23
1257	21-4-08	21-4-07	8	139.743	0.02	107.8	3.127	0.27	0.16	0.181	666.628
1356	29-3-09	29-3-10	8	251.525	0.07	233.1	6.786	0.27	0.16	0.181	1,448.66
1300	27-2-19	27-2-18	8	77.095	0.01	95.2	2.779	0.27	0.16	0.18	594.046
1026	18-4-27	18-4-05	8	370.385	0.01	93.9	2.741	0.27	0.16	0.18	585.931
1051	19-1-26	19-1-22	12	329.458	0.01	242.4	3.171	0.27	0.16	0.269	1,529.97
1358	29-3-11	29-3-12	8	279.115	0.08	233.1	6.929	0.27	0.16	0.178	1,491.62
1386	30-2-13	30-2-12	10	215.752	0	96.203	1.845	0.27	0.16	0.221	622.502
1350	29-1-18	29-1-17	10	201.851	0.03	233.1	4.561	0.26	0.15	0.218	1,551.81
1316	28-1-19	21-4-24	8	358.022	0.02	107.8	3.304	0.26	0.15	0.174	720.218
1047	19-1-22	19-1-16	12	505.438	0.01	274	3.775	0.26	0.15	0.259	1,859.70
1361	29-3-14	29-3-15	8	241.785	0.09	233.1	7.23	0.26	0.15	0.173	1,583.44
1232	21-3-02	21-3-01	15	203.266	0.01	344.3	3.041	0.26	0.15	0.324	2,342.65
1148	19-4-42	19-4-22	10	349.211	0.01	117.4	2.336	0.26	0.15	0.216	800.183
996	18-1-02	18-1-01	12	256.223	0.01	248.2	3.45	0.26	0.15	0.258	1,705.73

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1150	19-4-44	19-4-51	8	213.037	0.04	144.4	4.584	0.26	0.14	0.17	1,013.51
1357	29-3-10	29-3-11	8	398.375	0.09	233.1	7.468	0.25	0.14	0.169	1,657.27
1253	21-4-04	21-4-03	12	799.3	0	126.8	1.824	0.25	0.14	0.252	914.436
1251	21-4-02	G&OADD1	12	377.409	0.01	234.6	3.391	0.25	0.14	0.251	1,703.41
1118	19-3-36	19-3-03	8	254.163	0.01	71.1	2.316	0.25	0.14	0.167	517.305
1103	19-3-04	19-3-36	8	322.71	0.01	71.1	2.316	0.25	0.14	0.167	517.278
1102	19-3-03	19-3-37	8	218.705	0.01	71.1	2.316	0.25	0.14	0.167	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	71.1	2.316	0.25	0.14	0.167	517.477
1194	20-3-02	20-3-03	8	231.027	0.01	71.1	2.358	0.25	0.13	0.165	530.663
1235	21-3-05	21-3-04	15	509.884	0.01	344.3	3.281	0.25	0.13	0.307	2,606.80
1011	18-3-32	18-3-33	12	211.336	0	73.5	1.103	0.24	0.13	0.244	562.37
1100	19-3-01	19-4-05	8	69.164	0.01	71.1	2.41	0.24	0.13	0.162	547.077
1229	21-2-21	21-2-08	8	2,869.51	0	22.3	0.756	0.24	0.13	0.162	171.68
1128	19-4-05	19-4-04	8	607.351	0.01	71.1	2.446	0.24	0.13	0.161	558.661
1101	19-3-02	19-3-01	8	138.518	0.01	71.1	2.456	0.24	0.13	0.16	562.104
1017	18-4-01	18-1-07	12	39.831	0.02	248.2	3.819	0.24	0.13	0.24	1,967.82
1360	29-3-13	29-3-14	8	236.006	0.12	233.1	8.199	0.24	0.12	0.158	1,889.73
1124	19-4-01	20-3-02	8	400.051	0.01	71.1	2.502	0.24	0.12	0.158	576.75
1127	19-4-04	19-4-03	8	720.386	0.01	71.1	2.523	0.24	0.12	0.157	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	71.1	2.525	0.24	0.12	0.157	584.331
1338	28-4-02	28-1-14	8	424.758	0.02	88.7	3.174	0.23	0.12	0.156	736.912
1126	19-4-03	19-4-02	8	691.324	0.01	71.1	2.571	0.23	0.12	0.155	599.429
1041	19-1-16	20-2-38	15	446.292	0.01	296.2	3.049	0.23	0.12	0.291	2,499.76
1020	18-4-04	18-4-03	12	384.556	0.01	174.7	2.825	0.23	0.12	0.232	1,485.25
1311	28-1-11	28-1-10	12	243.143	0.01	126.8	2.051	0.23	0.12	0.232	1,078.42
1209	20-4-17	20-4-16	10	315.244	0.06	285.6	6.709	0.23	0.12	0.192	2,458.52
1019	18-4-03	18-4-02	12	506.848	0.01	174.7	2.859	0.23	0.12	0.23	1,510.74
1377	30-1-18	19-4-45	8	350.408	0.02	80.2	2.99	0.23	0.11	0.152	705.631
1291	27-2-04	27-2-03	8	178.715	0.03	107.8	4.042	0.23	0.11	0.151	956.58
1392	30-2-18	30-2-17	10	372.265	0.01	85.5	2.067	0.23	0.11	0.188	766.539

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1156	19-4-50	19-4-49	8	393.949	0.04	117.4	4.439	0.23	0.11	0.15	1,054.02
1391	30-2-17	30-2-16	10	64.408	0.01	85.5	2.087	0.22	0.11	0.187	777.014
1348	29-1-16	29-1-07	10	187.628	0.05	233.1	5.699	0.22	0.11	0.186	2,123.14
1005	18-1-11	18-1-18	8	149.044	0	39	1.518	0.22	0.11	0.147	364.602
1013	18-3-35	18-3-36	12	292.402	0	73.5	1.274	0.22	0.11	0.221	689.014
1250	G&OADD1	21-3-12	12	389.309	0.02	239.2	4.15	0.22	0.11	0.22	2,246.06
1241	21-3-11	21-3-31	12	144.196	0.02	243.5	4.238	0.22	0.11	0.22	2,297.16
1240	21-3-10	21-3-05	15	274.714	0.01	337	3.78	0.22	0.11	0.274	3,210.21
1306	28-1-02	28-1-01	8	247.684	0.05	126.8	5.026	0.22	0.1	0.145	1,216.75
1260	21-4-11	21-4-09	8	350.326	0.04	107.8	4.294	0.22	0.1	0.145	1,041.49
1218	21-1-02	WRFHEADWORKS	18	50	0.11	1,618.20	12.757	0.22	0.1	0.325	15,678.35
1210	20-4-18	20-4-17	10	22.66	0.05	233.1	5.974	0.22	0.1	0.18	2,268.95
1398	30-2-32	30-2-14	10	143.05	0.01	85.5	2.207	0.22	0.1	0.179	840.701
1027	19-1-01	18-4-27	8	420.515	0.01	50.4	2.034	0.22	0.1	0.144	496.115
1046	19-1-21	19-1-20	8	60.527	0	22.2	0.903	0.21	0.1	0.143	221.037
1296	27-2-10	27-2-11	8	230.854	0.03	95.2	3.906	0.21	0.1	0.142	959.031
1016	18-3-38	18-3-35	12	253.099	0	73.5	1.349	0.21	0.1	0.212	747.408
1133	19-4-11	19-4-09	8	444.228	0.01	51.8	2.145	0.21	0.1	0.141	528.762
1262	21-4-19	21-4-18	8	208.771	0.04	107.8	4.472	0.21	0.1	0.141	1,103.06
1297	27-2-11	27-2-12	8	180.846	0.03	95.2	3.984	0.21	0.1	0.14	986.377
1221	21-1-09	21-1-08	18	282.589	0.01	366.6	3.034	0.21	0.1	0.315	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	366.6	3.037	0.21	0.1	0.314	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	366.6	3.037	0.21	0.1	0.314	3,810.51
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	366.6	3.038	0.21	0.1	0.314	3,811.19
1227	21-2-07	21-1-10	18	102.071	0.01	366.6	3.048	0.21	0.1	0.313	3,829.92
1014	18-3-36	18-3-37	12	346.739	0	73.5	1.378	0.21	0.1	0.209	770.132
1131	19-4-08	19-4-07	8	699.032	0.01	51.8	2.189	0.21	0.1	0.139	544.176
1090	19-2-40	19-2-44	8	389.205	0.01	61.7	2.618	0.21	0.1	0.139	651.712
1151	19-4-45	G&OADD2	8	185.247	0.02	80.2	3.404	0.21	0.1	0.139	847.557
1036	19-1-11	19-1-10	10	263.273	0	48.1	1.307	0.21	0.1	0.173	508.411

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1248	21-3-31	21-3-10	12	133.4	0.03	243.5	4.618	0.21	0.09	0.207	2,593.32
1376	30-1-17	30-1-18	8	382.118	0.03	80.2	3.432	0.21	0.09	0.138	857.437
1009	18-3-01	18-4-04	12	36.125	0.01	174.7	3.346	0.21	0.09	0.206	1,886.27
1374	30-1-15	30-1-16	8	321.214	0.03	80.2	3.464	0.21	0.09	0.137	868.858
1346	29-1-06	29-1-05	10	254.333	0.07	233.1	6.459	0.21	0.09	0.171	2,534.09
1130	19-4-07	19-4-06	8	605.46	0.01	51.8	2.265	0.2	0.09	0.136	571.195
1228	21-2-11	21-2-08	18	760.617	0.01	344.3	2.977	0.2	0.09	0.305	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	344.3	2.982	0.2	0.09	0.305	3,810.33
1256	21-4-07	21-4-06	8	60.782	0.05	107.8	4.73	0.2	0.09	0.135	1,193.95
1244	21-3-17	21-3-11	12	186.646	0.03	239.2	4.757	0.2	0.09	0.2	2,724.62
1318	28-1-29	28-1-20	8	363.951	0.05	107.8	4.845	0.2	0.09	0.133	1,235.61
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	95.2	4.284	0.2	0.09	0.133	1,092.97
1132	19-4-09	19-4-08	8	681.983	0.01	51.8	2.335	0.2	0.09	0.133	596.292
1329	28-3-14	28-3-12	8	340.805	0.04	88.7	4.001	0.2	0.09	0.133	1,021.69
1396	30-2-23	30-2-21	10	196.778	0.01	85.5	2.471	0.2	0.09	0.166	986.537
1261	21-4-18	21-4-10	8	249.725	0.05	107.8	4.903	0.2	0.09	0.132	1,256.39
1403	30-3-05	30-3-04	8	115.798	0.01	31.6	1.446	0.2	0.09	0.131	371.352
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1114	19-3-31	19-3-30	8	104.645	0	27.9	1.299	0.2	0.08	0.13	336.21
1308	28-1-04	28-1-03	8	163.086	0.08	126.8	5.924	0.19	0.08	0.13	1,535.33
1370	30-1-07	30-1-06	8	418.833	0.01	31.6	1.483	0.19	0.08	0.129	385.06
1378	30-1-19	19-4-50	8	139.234	0.07	117.4	5.512	0.19	0.08	0.129	1,431.63
1115	19-3-32	19-3-31	8	403.213	0	27.9	1.314	0.19	0.08	0.129	341.484
1112	19-3-28	30-2-13	8	269.428	0	27.9	1.317	0.19	0.08	0.129	342.696
1284	24-4-26	24-4-27	8	230.476	0	27.9	1.319	0.19	0.08	0.128	343.574
1285	24-4-27	19-3-32	8	415.524	0	27.9	1.32	0.19	0.08	0.128	343.712
1283	24-4-25	24-4-26	8	399.92	0	27.9	1.32	0.19	0.08	0.128	343.964
1282	24-4-24	24-4-25	8	297.246	0	27.9	1.321	0.19	0.08	0.128	344.076
1288	27-2-01	28-1-31	8	255.578	0.06	107.8	5.131	0.19	0.08	0.128	1,340.06

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1129	19-4-06	20-3-07	8	70.467	0.01	51.8	2.476	0.19	0.08	0.127	647.808
1287	24-4-39	24-4-34	8	662.433	0	27.9	1.341	0.19	0.08	0.127	351.648
1037	19-1-12	19-1-11	8	136.141	0.01	48.1	2.316	0.19	0.08	0.127	607.673
1233	21-3-03	21-3-02	15	273.312	0.02	344.3	4.737	0.19	0.08	0.237	4,378.42
1390	30-2-16	30-2-15	10	360.927	0.01	85.5	2.66	0.19	0.08	0.158	1,094.81
1343	29-1-02	29-1-28	10	420.998	0.09	233.1	7.285	0.19	0.08	0.157	3,004.81
1004	18-1-10	18-1-11	8	343.962	0.01	39	1.907	0.19	0.08	0.125	503.61
1018	18-4-02	18-4-01	12	189.934	0.02	174.7	3.81	0.19	0.08	0.188	2,267.84
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1310	28-1-10	28-1-09	12	230.353	0.01	126.8	2.794	0.19	0.08	0.186	1,670.30
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
1382	30-2-01	30-1-07	8	267.898	0.01	31.6	1.577	0.19	0.08	0.124	420.257
1015	18-3-37	18-4-01	12	274.98	0	73.5	1.646	0.18	0.07	0.184	990.753
1010	18-3-10	18-3-01	12	398.208	0.02	174.7	3.916	0.18	0.07	0.184	2,357.59
1207	20-4-15	20-4-13	12	195.888	0.06	285.6	6.477	0.18	0.07	0.183	3,918.42
1003	18-1-09	18-1-10	8	367.771	0.01	39	2.017	0.18	0.07	0.121	545.445
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1315	28-1-14	28-1-13	8	328.472	0.05	88.7	4.601	0.18	0.07	0.12	1,245.47
1122	19-3-46	19-3-44	8	148.328	0	24.3	1.267	0.18	0.07	0.12	343.549
1123	19-3-47	19-3-46	8	301.624	0	24.3	1.267	0.18	0.07	0.12	343.858
1113	19-3-30	19-3-28	8	590.482	0.01	27.9	1.456	0.18	0.07	0.12	395.288
1347	29-1-07	29-1-06	10	262.001	0.12	233.1	7.871	0.18	0.07	0.149	3,353.04
1389	30-2-15	30-2-32	10	284.705	0.02	85.5	2.892	0.18	0.07	0.149	1,232.68
1072	19-2-18	19-1-25	8	597.147	0.01	31.6	1.671	0.18	0.07	0.119	456.061
1198	20-3-07	20-3-06	8	454.124	0.02	51.8	2.788	0.18	0.07	0.117	766.399
1031	19-1-05	19-1-04	10	303.991	0.01	48.1	1.663	0.18	0.07	0.146	715.317
1030	19-1-04	19-1-03	10	300.714	0.01	48.1	1.669	0.18	0.07	0.146	719.204
1394	30-2-20	30-2-19	10	277.422	0.02	85.5	2.979	0.18	0.07	0.146	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	85.5	2.98	0.18	0.07	0.146	1,286.47
1002	18-1-08	18-1-09	8	365.984	0.01	39	2.127	0.17	0.07	0.116	588.071

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1275	24-1-15	24-1-14	12	431.609	0.02	147.8	3.607	0.17	0.07	0.174	2,250.02
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1201	20-3-11	20-2-10	8	276.468	0	21.6	1.226	0.17	0.06	0.113	344.57
1092	19-2-46	19-2-53	10	355.676	0.01	61.7	2.273	0.17	0.06	0.14	1,004.28
1395	30-2-21	30-2-20	10	217.583	0.02	85.5	3.153	0.17	0.06	0.14	1,394.12
1286	24-4-34	24-4-24	8	208.15	0.01	27.9	1.617	0.17	0.06	0.112	458.545
1033	19-1-07	19-1-06	10	91.805	0.01	48.1	1.794	0.17	0.06	0.139	797.098
1050	19-1-25	19-1-24	8	722.453	0.01	31.6	1.852	0.17	0.06	0.111	527.58
1063	19-1-38	19-1-37	8	334.348	0.01	22.2	1.315	0.17	0.06	0.11	376.183
1340	28-4-04	28-4-03	8	400.195	0.08	88.7	5.272	0.16	0.06	0.11	1,511.06
1006	18-1-18	18-1-19	10	107.771	0.01	39	1.484	0.16	0.06	0.137	664.837
1029	19-1-03	19-1-02	10	300.714	0.01	48.1	1.837	0.16	0.06	0.137	823.951
1373	30-1-14	30-1-15	8	262.922	0.07	80.2	4.846	0.16	0.06	0.108	1,398.95
1307	28-1-03	28-1-02	8	155.436	0.17	126.8	7.672	0.16	0.06	0.108	2,215.51
973	17-2-16	17-2-17	10	217.198	0.01	39	1.517	0.16	0.06	0.135	685.544
1330	28-3-15	28-3-14	8	202.922	0.08	88.7	5.403	0.16	0.06	0.108	1,564.69
1049	19-1-24	19-1-23	8	632.352	0.01	31.6	1.94	0.16	0.06	0.107	563.915
1344	29-1-03	29-1-02	10	553.688	0.18	233.1	9.182	0.16	0.06	0.134	4,173.42
1276	24-1-16	24-1-15	12	354.375	0.03	147.8	4.105	0.16	0.06	0.159	2,704.08
1351	29-1-19	29-1-18	10	127.562	0.19	233.1	9.34	0.16	0.06	0.132	4,276.76
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1028	19-1-02	19-1-01	10	265.303	0.01	48.1	1.951	0.16	0.05	0.131	897.861
975	17-2-18	17-2-19	10	144.435	0.01	39	1.618	0.16	0.05	0.129	751.922
1045	19-1-20	19-1-38	8	252.835	0.01	22.2	1.45	0.15	0.05	0.103	432.594
1331	28-3-17	28-3-15	8	415.509	0.11	88.7	5.889	0.15	0.05	0.102	1,768.60
1208	20-4-16	20-4-15	12	367.616	0.13	285.6	8.46	0.15	0.05	0.152	5,726.79
1388	30-2-14	30-2-13	10	491.303	0.03	85.5	3.648	0.15	0.05	0.127	1,714.76
1375	30-1-16	30-1-17	8	373.616	0.09	80.2	5.465	0.15	0.05	0.1	1,659.65
1135	19-4-13	19-4-12	8	327.186	0.01	24.3	1.656	0.15	0.05	0.1	503.061

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1234	21-3-04	21-3-03	15	400.893	0.06	344.3	6.742	0.15	0.05	0.186	7,230.42
1339	28-4-03	28-3-17	8	355.875	0.12	88.7	6.174	0.15	0.05	0.098	1,891.81
1367	30-1-04	30-1-05	8	389.779	0.01	18.7	1.302	0.15	0.05	0.098	399.153
980	17-2-23	17-2-24	10	299.088	0.01	39	1.74	0.15	0.05	0.123	834.02
987	17-2-30	17-2-33	10	267.515	0.01	39	1.752	0.15	0.05	0.122	841.806
981	17-2-24	17-2-25	10	296.445	0.01	39	1.757	0.15	0.05	0.122	845.522
982	17-2-25	17-2-26	10	346.589	0.01	39	1.758	0.15	0.05	0.122	845.73
986	17-2-29	17-2-30	10	242.085	0.01	39	1.764	0.15	0.05	0.122	850.2
979	17-2-22	17-2-23	10	296.781	0.01	39	1.768	0.15	0.05	0.121	852.761
1074	19-2-20	19-2-19	8	50.941	0	15.5	1.102	0.15	0.05	0.097	340.737
1076	19-2-22	19-2-23	8	53.372	0	15.5	1.106	0.15	0.05	0.097	342.73
1088	19-2-38	19-2-24	8	298.506	0	15.5	1.108	0.15	0.05	0.096	343.349
1077	19-2-23	19-2-21	8	264.88	0	15.5	1.108	0.15	0.05	0.096	343.357
1078	19-2-24	19-2-22	8	301.341	0	15.5	1.109	0.15	0.05	0.096	343.735
1075	19-2-21	19-2-20	8	197.143	0	15.5	1.109	0.15	0.05	0.096	343.804
983	17-2-26	17-2-27	10	268.744	0.01	39	1.789	0.14	0.05	0.12	867.423
1073	19-2-19	19-2-18	8	231.269	0	15.5	1.115	0.14	0.05	0.096	346.692
1381	30-1-45	30-1-03	8	116.402	0.01	18.7	1.353	0.14	0.04	0.096	421.703
1369	30-1-06	30-1-08	8	302.642	0.05	50.3	3.672	0.14	0.04	0.095	1,148.53
1094	19-2-53	18-3-10	12	1,094.58	0.01	61.7	2.014	0.14	0.04	0.142	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	31.6	2.322	0.14	0.04	0.095	727.923
1195	20-3-03	20-3-04	8	39.636	0.09	71.1	5.226	0.14	0.04	0.095	1,638.88
1383	30-2-02	30-2-01	8	366.127	0.02	31.6	2.34	0.14	0.04	0.094	736.18
1034	19-1-08	19-1-07	10	303.907	0.01	48.1	2.294	0.14	0.04	0.117	1,131.17
1137	19-4-18	19-4-17	8	372.632	0.01	24.3	1.824	0.14	0.04	0.093	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	24.3	1.827	0.14	0.04	0.093	578.662
1048	19-1-23	19-1-22	8	431.333	0.02	31.6	2.38	0.14	0.04	0.093	754.348
1044	19-1-19	19-1-18	8	188.782	0.01	22.2	1.674	0.14	0.04	0.093	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	22.2	1.676	0.14	0.04	0.093	531.765
978	17-2-21	17-2-22	10	242.47	0.01	39	1.901	0.14	0.04	0.115	945.568

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1401	30-3-03	30-3-02	8	313.231	0.02	31.6	2.408	0.14	0.04	0.092	766.921
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1372	30-1-11	30-1-14	8	265.862	0.06	50.3	3.95	0.14	0.04	0.09	1,274.35
1400	30-3-02	30-3-01	8	281.493	0.02	31.6	2.5	0.14	0.04	0.09	809.001
1345	29-1-05	29-1-03	10	176.995	0.38	233.1	11.957	0.13	0.04	0.111	6,079.90
976	17-2-19	17-2-20	10	293.842	0.01	39	2.008	0.13	0.04	0.111	1,022.48
1032	19-1-06	19-1-05	10	215.234	0.02	48.1	2.496	0.13	0.04	0.111	1,275.16
984	17-2-27	17-2-28	10	226.538	0.01	39	2.043	0.13	0.04	0.11	1,048.14
989	17-2-32	PWPS	10	30.835	0.01	39	2.046	0.13	0.04	0.11	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	39	2.05	0.13	0.04	0.11	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	39	2.058	0.13	0.04	0.109	1,059.29
1402	30-3-04	30-3-03	8	249.614	0.03	31.6	2.607	0.13	0.04	0.087	859.109
1035	19-1-10	19-1-08	10	267.538	0.02	48.1	2.558	0.13	0.04	0.109	1,320.68
977	17-2-20	17-2-21	10	216.023	0.01	39	2.167	0.13	0.03	0.106	1,140.43
1309	28-1-09	28-1-04	12	242.622	0.05	126.8	4.897	0.13	0.03	0.127	3,711.32
1120	19-3-43	19-3-34	8	277.631	0.02	24.3	2.133	0.13	0.03	0.084	721.704
1012	18-3-33	18-3-38	12	234.47	0.02	73.5	2.885	0.13	0.03	0.125	2,201.35
990	17-2-33	17-2-31	10	99.544	0.02	39	2.233	0.12	0.03	0.103	1,190.00
1136	19-4-17	19-4-13	8	239.707	0.02	24.3	2.248	0.12	0.03	0.081	777.493
1245	21-3-28	21-3-10	18	171.574	0	93.5	1.711	0.12	0.03	0.182	2,997.81
1007	18-1-19	17-2-16	10	85.069	0.02	39	2.33	0.12	0.03	0.1	1,264.88
1042	19-1-17	19-1-16	8	442.425	0.02	22.2	2.184	0.12	0.03	0.077	775.604
1085	19-2-34	19-2-33	8	332.521	0.01	10.4	1.027	0.12	0.03	0.077	365.237
988	17-2-31	17-2-32	10	34.461	0.02	39	2.509	0.12	0.03	0.095	1,405.25
1371	30-1-08	30-1-11	8	56.083	0.11	50.3	5.075	0.11	0.03	0.076	1,822.60
1327	28-2-26	21-3-43	8	787.743	0.03	25.6	2.616	0.11	0.03	0.076	944.431
1404	30-3-06	30-3-05	8	479.243	0.05	31.6	3.246	0.11	0.03	0.075	1,174.62
1086	19-2-35	19-2-34	8	404.934	0.01	10.4	1.078	0.11	0.03	0.075	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	10.4	1.079	0.11	0.03	0.075	392.259
1121	19-3-44	19-3-43	8	212.155	0.03	24.3	2.535	0.11	0.03	0.074	923.609

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1084	19-2-33	19-2-32	8	344.933	0.01	10.4	1.101	0.11	0.03	0.074	403.597
1117	19-3-34	19-3-33	8	161.198	0.03	24.3	2.58	0.11	0.03	0.074	947.138
1056	19-1-31	19-1-26	8	343.667	0.01	11.7	1.324	0.11	0.02	0.07	499.538
1219	21-1-06	WRFHEADWORKS	18	50	0.11	366.6	8.205	0.11	0.02	0.158	15,678.35
1237	21-3-07	21-3-13	18	111.052	0	67.9	1.546	0.1	0.02	0.156	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	67.9	1.547	0.1	0.02	0.156	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	67.9	1.551	0.1	0.02	0.156	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	67.9	1.551	0.1	0.02	0.156	2,990.43
1079	19-2-28	19-1-21	8	650.475	0.01	10.4	1.211	0.1	0.02	0.069	462.245
1368	30-1-05	30-1-06	8	198.059	0.03	18.7	2.236	0.1	0.02	0.068	864.026
1176	20-2-08	20-2-07	12	357.855	0	21.6	1.152	0.1	0.02	0.101	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	21.6	1.163	0.1	0.02	0.101	1,016.62
1313	28-1-13	28-1-12	12	301.095	0.07	88.7	4.799	0.1	0.02	0.101	4,203.92
1174	20-2-06	20-2-05	12	193.076	0	21.6	1.175	0.1	0.02	0.1	1,032.05
1177	20-2-09	20-2-08	12	188.36	0	21.6	1.185	0.1	0.02	0.1	1,044.89
1083	19-2-32	19-2-31	8	315.193	0.01	10.4	1.285	0.1	0.02	0.066	503.307
1236	21-3-06	21-3-07	18	367.661	0	58.9	1.486	0.1	0.02	0.146	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	58.9	1.486	0.1	0.02	0.146	2,990.56
1178	20-2-10	20-2-09	12	270.361	0.01	21.6	1.27	0.1	0.02	0.095	1,153.76
1057	19-1-32	19-1-31	8	425.744	0.02	11.7	1.602	0.09	0.02	0.062	656.237
1246	21-3-29	21-3-28	10	393.116	0.02	25.6	2.247	0.09	0.02	0.077	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	25.6	3.579	0.09	0.02	0.061	1,479.62
1058	19-1-33	19-1-32	8	695.085	0.02	11.7	1.655	0.09	0.02	0.061	687.197
1366	30-1-03	30-1-04	8	322.785	0.04	18.7	2.722	0.09	0.02	0.059	1,144.59
1062	19-1-37	19-1-19	8	25.33	0.06	22.2	3.244	0.09	0.02	0.059	1,366.73
1116	19-3-33	19-4-18	8	61.971	0.08	24.3	3.598	0.09	0.02	0.059	1,524.43
1405	30-3-07	30-3-06	8	183.457	0.13	31.6	4.695	0.09	0.02	0.059	1,992.53
1081	19-2-30	19-2-29	8	163.036	0.02	10.4	1.617	0.09	0.02	0.057	699.809
1080	19-2-29	19-2-28	8	17.12	0.02	10.4	1.649	0.08	0.01	0.056	719.866
1408	30-4-03	30-4-02	8	394.827	0.06	18.7	2.985	0.08	0.01	0.056	1,306.78

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1082	19-2-31	19-2-30	8	149.404	0.02	10.4	1.667	0.08	0.01	0.056	731.037
1406	30-4-01	30-1-45	8	298.989	0.09	18.7	3.461	0.08	0.01	0.05	1,615.90
1252	21-4-03	21-4-02	12	24.809	0.53	126.8	10.887	0.07	0.01	0.073	11,650.78
1407	30-4-02	30-4-01	8	403.34	0.1	18.7	3.654	0.07	0.01	0.049	1,746.43
1324	28-2-09	28-2-10	10	57.427	0.07	25.6	3.457	0.07	0.01	0.058	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	25.6	3.467	0.07	0.01	0.058	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	25.6	3.532	0.07	0.01	0.057	2,752.41
1249	21-3-43	21-3-30	10	75.939	0.1	25.6	3.826	0.07	0.01	0.054	3,088.26
1038	19-1-13	19-1-01	8	398.608	0.01	2.3	0.836	0.05	0	0.032	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	2.3	0.885	0.05	0	0.031	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	2.3	0.959	0.04	0	0.029	638.155
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
WITH Carlsborg Flows											
1263	21-4-20	21-4-19	8	323.279	0	107.8	0.688	1	2.52	0.667	42.773
1158	20-1-06	21-2-01	8	57.456	0.01	1555.699	9.93	1	2.63	0.667	591.598
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1161	20-1-19	20-1-13	15	165.416	0	1,550.30	3.306	0.79	0.97	0.992	1,598.26
1160	20-1-13	20-1-07	15	117.439	0	1,550.30	3.841	0.69	0.82	0.859	1,896.84
1141	19-4-25	19-4-24	8	56.351	0	245.3	2.274	0.65	0.76	0.434	323.97
1193	20-3-01	20-2-42	12	87.82	0	498.3	2.312	0.59	0.65	0.588	765.137
1091	19-2-44	19-2-46	8	579.954	0	61.7	0.677	0.57	0.61	0.376	100.985
1138	19-4-22	20-3-10	8	512.576	0.02	362.7	4.344	0.53	0.54	0.351	666.508
1226	21-2-06	21-1-01	18	790.804	0	1,555.70	3.755	0.52	0.53	0.776	2,935.75
1217	21-1-01	21-1-02	18	769.455	0	1,555.70	3.794	0.51	0.52	0.77	2,976.20
1197	20-3-06	20-3-04	10	300.724	0.01	427.2	3.456	0.5	0.51	0.42	843.327
1188	20-2-40	20-2-39	12	382.757	0	510.1	2.929	0.5	0.49	0.495	1,036.62
1225	21-2-03	21-2-22	18	109	0.01	1,555.70	4.008	0.49	0.49	0.738	3,201.67
1153	19-4-47	19-4-46	8	126.27	0	117.4	1.533	0.49	0.49	0.328	241.969
1152	19-4-46	19-4-42	8	125.896	0	117.4	1.534	0.49	0.48	0.327	242.328
1363	29-3-16	29-3-17	8	401.862	0.01	233.1	3.066	0.49	0.48	0.326	485.261
1397	30-2-25	19-3-27	8	201.839	0	144.4	2.092	0.45	0.42	0.302	342.359
1385	30-2-12	30-2-11	8	253.12	0	144.4	2.098	0.45	0.42	0.302	343.507
1384	30-2-11	30-2-25	8	317.001	0	144.4	2.101	0.45	0.42	0.301	344.2
1139	19-4-23	19-4-22	8	659	0.01	245.3	3.617	0.45	0.41	0.298	595.401
1140	19-4-24	19-4-23	8	622.555	0.01	245.3	3.623	0.45	0.41	0.298	596.872
1173	20-2-05	20-2-04	15	311.909	0.01	817.3	3.468	0.44	0.41	0.554	2,015.97
1142	19-4-26	19-4-25	8	412.69	0.01	245.3	3.684	0.44	0.4	0.294	610.42
1181	20-2-25	20-2-21	15	150.591	0.01	789.8	3.395	0.44	0.4	0.549	1,981.99
1171	20-1-51	20-1-19	15	399.329	0.01	1,227.40	5.339	0.44	0.39	0.544	3,130.23

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1172	20-2-04	20-1-49	15	390.979	0.01	1,227.40	5.376	0.43	0.39	0.541	3,160.06
969	17-2-12	17-2-13	12	303.616	0	352	2.436	0.43	0.38	0.429	920.151
1144	19-4-32	19-4-27	8	244.428	0.01	245.3	3.82	0.43	0.38	0.286	641.362
1179	20-2-17	20-2-46	15	330.36	0.01	795.7	3.531	0.43	0.38	0.535	2,085.37
1143	19-4-27	19-4-26	8	277.611	0.01	245.3	3.834	0.43	0.38	0.285	644.544
1145	19-4-33	19-4-32	8	193.37	0.01	245.3	3.877	0.42	0.38	0.283	654.371
1364	29-3-17	29-3-18	10	402.175	0	233.1	2.358	0.42	0.38	0.353	621.901
1312	28-1-12	28-1-11	8	281.382	0	126.8	2.012	0.42	0.37	0.282	340.007
1166	20-1-34	20-1-30	12	354.986	0	300.6	2.122	0.42	0.37	0.423	807.304
1192	20-2-46	20-2-05	15	322.684	0.01	795.7	3.607	0.42	0.37	0.527	2,146.94
1163	20-1-25	20-1-20	12	169.112	0	315.8	2.275	0.42	0.36	0.416	871.805
1365	29-3-18	29-1-21	10	398.124	0	233.1	2.42	0.42	0.36	0.347	644.294
1349	29-1-17	29-1-16	10	418.361	0	233.1	2.427	0.42	0.36	0.346	646.739
1189	20-2-41	20-2-40	12	217.516	0.01	510.1	3.692	0.42	0.36	0.415	1,417.43
1187	20-2-39	20-2-43	12	427.648	0.01	510.1	3.715	0.41	0.36	0.413	1,429.61
1353	29-1-21	29-1-20	10	402.791	0	233.1	2.461	0.41	0.35	0.342	659.121
1185	20-2-34	20-2-32	15	328.102	0.01	770	3.655	0.41	0.35	0.509	2,212.20
1242	21-3-12	21-3-17	12	222.893	0	239.2	1.775	0.41	0.35	0.407	687.646
1165	20-1-30	20-1-26	12	354.769	0	308.2	2.3	0.41	0.35	0.405	892.782
1190	20-2-42	20-2-41	12	92.525	0.01	510.1	3.831	0.4	0.34	0.403	1,490.86
1055	19-1-30	19-1-29	8	678.565	0.01	162.8	2.752	0.4	0.34	0.269	476.042
1155	19-4-49	19-4-48	8	250.077	0	117.4	1.987	0.4	0.34	0.269	343.876
1380	30-1-41	30-1-19	8	354.251	0	117.4	1.989	0.4	0.34	0.268	344.293
1146	19-4-34	19-4-33	8	222.441	0.02	226.4	3.871	0.4	0.34	0.267	672.312
1184	20-2-32	20-2-29	15	331.328	0.01	777.6	3.788	0.4	0.34	0.499	2,314.37
1191	20-2-43	20-2-38	12	369.052	0.01	510.1	3.921	0.4	0.33	0.396	1,538.93
1095	19-2-54	19-2-59	8	122.685	0.01	162.8	2.825	0.4	0.33	0.264	493.406
1162	20-1-20	20-1-19	12	160.958	0	322.9	2.491	0.4	0.33	0.395	978.905
1168	20-1-39	20-1-38	12	255.284	0	293.1	2.278	0.39	0.33	0.393	897.542
1186	20-2-38	20-2-34	15	438.816	0.01	743.8	3.702	0.39	0.33	0.491	2,280.30

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1070	19-2-16	19-2-54	8	329.97	0.01	162.8	2.853	0.39	0.33	0.262	500.039
1069	19-2-15	19-2-16	8	465.861	0.01	162.8	2.853	0.39	0.33	0.262	500.103
1071	19-2-17	19-1-30	8	787.887	0.01	162.8	2.859	0.39	0.33	0.261	501.469
1169	20-1-49	20-1-50	15	273.274	0.02	1,227.40	6.134	0.39	0.32	0.49	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	1,227.40	6.147	0.39	0.32	0.489	3,794.91
1317	28-1-20	28-1-19	8	64.719	0	107.8	1.918	0.39	0.32	0.259	337.98
1097	19-2-59	19-2-17	8	213.617	0.01	162.8	2.9	0.39	0.32	0.259	511.507
968	17-2-11	17-2-12	12	104.09	0.01	352	2.797	0.39	0.32	0.387	1,111.22
1292	27-2-05	27-2-04	8	212.723	0	107.8	1.941	0.39	0.31	0.256	343.749
963	17-2-06	17-2-07	12	101.697	0.01	352	2.82	0.38	0.31	0.384	1,124.22
1314	28-1-31	28-1-30	8	394.454	0	107.8	1.947	0.38	0.31	0.256	345.255
964	17-2-07	17-2-08	12	334.55	0.01	352	2.842	0.38	0.31	0.382	1,136.18
1147	19-4-40	19-4-34	8	331.621	0.02	226.4	4.141	0.38	0.31	0.253	737.535
1164	20-1-26	20-1-25	12	169.233	0	315.8	2.571	0.38	0.31	0.38	1,031.17
1230	21-2-22	21-2-06	18	1,831.00	0.01	1,555.70	5.636	0.38	0.31	0.569	5,086.60
962	17-2-05	17-2-06	12	232.966	0.01	352	2.877	0.38	0.31	0.379	1,155.49
1265	21-4-24	21-4-21	8	126.481	0	107.8	1.989	0.38	0.3	0.252	355.323
1223	21-2-01	21-2-02	18	518.06	0.01	1,555.70	5.684	0.38	0.3	0.566	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	1,555.70	5.687	0.38	0.3	0.565	5,150.85
1159	20-1-07	20-1-06	18	1,319.26	0.01	1,550.30	5.679	0.38	0.3	0.565	5,147.03
1067	19-2-12	19-2-14	8	206.905	0.01	147.8	2.756	0.38	0.3	0.25	494.369
1054	19-1-29	19-1-28	8	438.473	0.01	168.2	3.138	0.38	0.3	0.25	563.01
967	17-2-10	17-2-11	12	218.347	0.01	352	2.919	0.38	0.3	0.375	1,178.66
1277	24-1-26	24-1-06	8	289.66	0.01	147.8	2.766	0.37	0.3	0.249	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	147.8	2.769	0.37	0.3	0.249	497.667
1267	24-1-02	24-1-03	8	348.953	0.01	147.8	2.772	0.37	0.3	0.249	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	147.8	2.772	0.37	0.3	0.249	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	147.8	2.774	0.37	0.3	0.249	498.946
1254	21-4-05	21-4-02	8	158.26	0	107.8	2.025	0.37	0.3	0.249	364.236
1096	19-2-56	19-2-10	8	449.312	0.01	147.8	2.779	0.37	0.3	0.248	500.1

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
971	17-2-14	PWPS	12	184.844	0.01	352	2.941	0.37	0.3	0.373	1,191.02
1065	19-2-10	19-2-11	8	135.736	0.01	147.8	2.78	0.37	0.3	0.248	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	147.8	2.781	0.37	0.3	0.248	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	147.8	2.782	0.37	0.3	0.248	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	147.8	2.787	0.37	0.29	0.248	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	147.8	2.787	0.37	0.29	0.248	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	147.8	2.789	0.37	0.29	0.248	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	147.8	2.789	0.37	0.29	0.248	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	147.8	2.789	0.37	0.29	0.248	502.741
965	17-2-08	17-2-09	12	306.365	0.01	352	2.954	0.37	0.29	0.371	1,197.84
1270	24-1-06	24-1-07	8	97.95	0.01	147.8	2.793	0.37	0.29	0.247	503.589
1053	19-1-28	19-1-27	8	259.296	0.01	168.2	3.186	0.37	0.29	0.247	575.095
1204	20-4-07	20-4-06	12	397.849	0	285.6	2.419	0.37	0.29	0.369	984.482
1305	28-1-01	21-4-04	8	383.288	0.01	126.8	2.425	0.37	0.29	0.245	439.184
1149	G&OADD2	19-4-40	8	356.5	0.02	224.6	4.317	0.37	0.29	0.244	783.474
994	17-3-04	17-2-05	12	221.097	0.01	352	3.01	0.37	0.29	0.366	1,229.42
1196	20-3-04	20-3-01	12	110.258	0.01	498.3	4.262	0.37	0.29	0.366	1,740.95
1302	27-2-21	27-2-20	8	161.176	0	95.2	1.861	0.36	0.28	0.241	339.984
1203	20-4-06	20-1-39	12	392	0	285.6	2.49	0.36	0.28	0.361	1,024.33
1299	27-2-18	27-2-10	8	188.538	0	95.2	1.873	0.36	0.28	0.24	342.981
1301	27-2-20	27-2-19	8	289.947	0	95.2	1.877	0.36	0.28	0.24	343.961
1303	27-2-22	27-2-21	8	167.014	0	95.2	1.879	0.36	0.28	0.24	344.429
1304	27-2-23	27-2-22	8	149.448	0	95.2	1.879	0.36	0.28	0.24	344.564
1154	19-4-48	19-4-47	8	241.949	0.01	117.4	2.331	0.36	0.27	0.239	428.176
1167	20-1-38	20-1-34	12	191.441	0.01	293.1	2.639	0.35	0.27	0.353	1,099.32
1362	29-3-15	29-3-16	8	237.428	0.03	233.1	4.74	0.35	0.27	0.234	878.756
1216	20-4-42	20-4-07	12	329.641	0.01	285.6	2.589	0.35	0.26	0.351	1,081.55
1180	20-2-21	20-2-17	15	187.297	0.01	789.8	4.597	0.35	0.26	0.437	3,004.01
1359	29-3-12	29-3-13	8	328.996	0.03	233.1	4.83	0.35	0.26	0.231	901.92
1202	20-3-15	20-3-06	12	203.572	0.01	375.4	3.515	0.34	0.25	0.343	1,486.56

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1200	20-3-10	20-3-08	12	348.384	0.01	362.7	3.442	0.34	0.25	0.339	1,462.82
961	17-2-04	17-3-01	12	345.616	0.01	342.1	3.309	0.34	0.24	0.335	1,417.12
1098	19-2-62	19-2-39	8	362.45	0	61.7	1.355	0.33	0.24	0.222	258.656
998	18-1-04	18-1-03	12	300.784	0	248.2	2.444	0.33	0.24	0.33	1,054.06
1110	19-3-26	19-4-44	8	285.064	0.01	144.4	3.23	0.33	0.23	0.219	621.212
991	17-3-01	17-3-02	12	318.869	0.01	342.1	3.407	0.33	0.23	0.328	1,475.36
1199	20-3-08	20-3-15	12	166.018	0.01	375.4	3.783	0.33	0.23	0.325	1,646.13
1258	21-4-09	21-4-08	8	50.49	0.01	107.8	2.487	0.32	0.22	0.214	484.022
1001	18-1-07	18-1-06	12	453.25	0.01	248.2	2.59	0.32	0.22	0.317	1,142.13
1289	27-2-02	27-2-01	8	113.774	0.01	107.8	2.581	0.31	0.21	0.208	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	107.8	2.582	0.31	0.21	0.208	510.101
1052	19-1-27	19-1-26	8	403.413	0.02	168.2	4.055	0.31	0.21	0.207	803.166
1264	21-4-21	21-4-20	8	149.173	0.01	107.8	2.615	0.31	0.21	0.206	519.235
1259	21-4-10	21-4-11	8	31.731	0.01	107.8	2.649	0.31	0.2	0.204	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	107.8	2.654	0.31	0.2	0.204	530.03
999	18-1-05	18-1-04	12	206.235	0.01	248.2	2.72	0.31	0.2	0.306	1,223.01
1099	19-2-71	19-2-62	8	185.256	0	61.7	1.522	0.31	0.2	0.204	304.275
1024	18-4-25	18-4-24	8	397.125	0.01	93.9	2.351	0.3	0.2	0.201	472.646
1157	19-4-51	G&OADD2	8	411.715	0.02	144.4	3.623	0.3	0.2	0.201	729.048
1022	18-4-23	17-2-01	8	384.354	0.01	93.9	2.379	0.3	0.2	0.2	480.434
1023	18-4-24	18-4-23	8	399.081	0.01	93.9	2.402	0.3	0.19	0.198	486.949
970	17-2-13	17-2-14	12	53.433	0.01	352	4.017	0.3	0.19	0.297	1,835.12
1290	27-2-03	27-2-02	8	149.302	0.01	107.8	2.771	0.3	0.19	0.198	562.945
1355	29-2-43	30-1-20	8	362.02	0.01	117.4	3.084	0.29	0.19	0.195	632.015
1379	30-1-20	30-1-41	8	66.423	0.01	117.4	3.088	0.29	0.19	0.194	632.995
960	17-2-03	17-2-04	12	237.625	0.01	342.1	4.024	0.29	0.18	0.29	1,860.59
992	17-3-02	17-3-03	12	398.981	0.02	352	4.169	0.29	0.18	0.289	1,933.12
997	18-1-03	18-1-21	12	510.506	0.01	248.2	2.943	0.29	0.18	0.289	1,364.97
2	17-4-01	20-2-04	12	1,022.00	0.02	399	4.753	0.29	0.18	0.288	2,209.01
966	17-2-09	17-2-10	12	472.423	0.02	352	4.198	0.29	0.18	0.288	1,951.66

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
995	18-1-01	17-2-01	12	406.186	0.01	248.2	2.963	0.29	0.18	0.287	1,377.91
959	17-2-02	17-2-03	12	400.873	0.01	342.1	4.129	0.29	0.18	0.285	1,928.56
1328	28-3-12	28-4-02	8	320.055	0.01	88.7	2.413	0.29	0.18	0.19	501.316
958	17-2-01	17-2-02	12	399.079	0.02	342.1	4.16	0.28	0.18	0.284	1,949.48
1354	29-1-28	20-4-18	10	434.841	0.02	233.1	4.083	0.28	0.18	0.236	1,328.98
1206	20-4-13	20-4-12	12	193.1	0.01	285.6	3.48	0.28	0.18	0.283	1,631.72
1089	19-2-39	19-2-40	8	218.916	0	61.7	1.692	0.28	0.18	0.189	352.528
1111	19-3-27	19-3-26	8	266.061	0.02	144.4	3.985	0.28	0.17	0.188	832.801
1205	20-4-12	20-4-42	12	178.123	0.01	285.6	3.516	0.28	0.17	0.281	1,655.92
1213	20-4-35	20-4-31	8	628.236	0	58.9	1.639	0.28	0.17	0.187	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	58.9	1.639	0.28	0.17	0.187	343.737
1008	18-1-21	18-1-02	12	145.768	0.01	248.2	3.08	0.28	0.17	0.279	1,454.73
1021	18-4-05	18-4-26	8	297.552	0.01	93.9	2.638	0.28	0.17	0.186	555.058
1352	29-1-20	29-1-19	10	419.219	0.02	233.1	4.229	0.28	0.17	0.23	1,395.69
1000	18-1-06	18-1-05	12	395.427	0.01	248.2	3.161	0.27	0.17	0.274	1,508.42
1025	18-4-26	18-4-25	8	396.401	0.01	93.9	2.698	0.27	0.16	0.183	572.925
993	17-3-03	17-3-04	12	281.199	0.02	352	4.512	0.27	0.16	0.273	2,159.23
1183	20-2-29	20-2-28	15	69.913	0.03	784	6.464	0.27	0.16	0.34	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	784	6.466	0.27	0.16	0.34	4,845.04
1257	21-4-08	21-4-07	8	139.743	0.02	107.8	3.127	0.27	0.16	0.181	666.628
1356	29-3-09	29-3-10	8	251.525	0.07	233.1	6.786	0.27	0.16	0.181	1,448.66
1026	18-4-27	18-4-05	8	370.385	0.01	93.9	2.741	0.27	0.16	0.18	585.931
1300	27-2-19	27-2-18	8	77.095	0.01	95.2	2.779	0.27	0.16	0.18	594.046
1358	29-3-11	29-3-12	8	279.115	0.08	233.1	6.929	0.27	0.16	0.178	1,491.62
1386	30-2-13	30-2-12	10	215.752	0	96.203	1.845	0.27	0.16	0.221	622.502
1350	29-1-18	29-1-17	10	201.851	0.03	233.1	4.561	0.26	0.15	0.218	1,551.81
1316	28-1-19	21-4-24	8	358.022	0.02	107.8	3.304	0.26	0.15	0.174	720.218
1361	29-3-14	29-3-15	8	241.785	0.09	233.1	7.23	0.26	0.15	0.173	1,583.44
1232	21-3-02	21-3-01	15	203.266	0.01	344.3	3.041	0.26	0.15	0.324	2,342.65
1148	19-4-42	19-4-22	10	349.211	0.01	117.4	2.336	0.26	0.15	0.216	800.183

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
996	18-1-02	18-1-01	12	256.223	0.01	248.2	3.45	0.26	0.15	0.258	1,705.73
1150	19-4-44	19-4-51	8	213.037	0.04	144.4	4.584	0.26	0.14	0.17	1,013.51
1357	29-3-10	29-3-11	8	398.375	0.09	233.1	7.468	0.25	0.14	0.169	1,657.27
1253	21-4-04	21-4-03	12	799.3	0	126.8	1.824	0.25	0.14	0.252	914.436
1251	21-4-02	G&OADD1	12	377.409	0.01	234.6	3.391	0.25	0.14	0.251	1,703.41
1103	19-3-04	19-3-36	8	322.71	0.01	71.1	2.316	0.25	0.14	0.167	517.278
1118	19-3-36	19-3-03	8	254.163	0.01	71.1	2.316	0.25	0.14	0.167	517.305
1102	19-3-03	19-3-37	8	218.705	0.01	71.1	2.316	0.25	0.14	0.167	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	71.1	2.316	0.25	0.14	0.167	517.477
1194	20-3-02	20-3-03	8	231.027	0.01	71.1	2.358	0.25	0.13	0.165	530.663
1235	21-3-05	21-3-04	15	509.884	0.01	344.3	3.281	0.25	0.13	0.307	2,606.80
1011	18-3-32	18-3-33	12	211.336	0	73.5	1.103	0.24	0.13	0.244	562.37
1100	19-3-01	19-4-05	8	69.164	0.01	71.1	2.41	0.24	0.13	0.162	547.077
1229	21-2-21	21-2-08	8	2,869.51	0	22.3	0.756	0.24	0.13	0.162	171.68
1128	19-4-05	19-4-04	8	607.351	0.01	71.1	2.446	0.24	0.13	0.161	558.661
1101	19-3-02	19-3-01	8	138.518	0.01	71.1	2.456	0.24	0.13	0.16	562.104
1017	18-4-01	18-1-07	12	39.831	0.02	248.2	3.819	0.24	0.13	0.24	1,967.82
1360	29-3-13	29-3-14	8	236.006	0.12	233.1	8.199	0.24	0.12	0.158	1,889.73
1124	19-4-01	20-3-02	8	400.051	0.01	71.1	2.502	0.24	0.12	0.158	576.75
1127	19-4-04	19-4-03	8	720.386	0.01	71.1	2.523	0.24	0.12	0.157	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	71.1	2.525	0.24	0.12	0.157	584.331
1338	28-4-02	28-1-14	8	424.758	0.02	88.7	3.174	0.23	0.12	0.156	736.912
1126	19-4-03	19-4-02	8	691.324	0.01	71.1	2.571	0.23	0.12	0.155	599.429
1020	18-4-04	18-4-03	12	384.556	0.01	174.7	2.825	0.23	0.12	0.232	1,485.25
1051	19-1-26	19-1-22	12	329.458	0.01	179.9	2.909	0.23	0.12	0.232	1,529.97
1311	28-1-11	28-1-10	12	243.143	0.01	126.8	2.051	0.23	0.12	0.232	1,078.42
1209	20-4-17	20-4-16	10	315.244	0.06	285.6	6.709	0.23	0.12	0.192	2,458.52
1019	18-4-03	18-4-02	12	506.848	0.01	174.7	2.859	0.23	0.12	0.23	1,510.74
1047	19-1-22	19-1-16	12	505.438	0.01	211.5	3.502	0.23	0.11	0.228	1,859.70
1377	30-1-18	19-4-45	8	350.408	0.02	80.2	2.99	0.23	0.11	0.152	705.631

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1291	27-2-04	27-2-03	8	178.715	0.03	107.8	4.042	0.23	0.11	0.151	956.58
1392	30-2-18	30-2-17	10	372.265	0.01	85.5	2.067	0.23	0.11	0.188	766.539
1156	19-4-50	19-4-49	8	393.949	0.04	117.4	4.439	0.23	0.11	0.15	1,054.02
1391	30-2-17	30-2-16	10	64.408	0.01	85.5	2.087	0.22	0.11	0.187	777.014
1348	29-1-16	29-1-07	10	187.628	0.05	233.1	5.699	0.22	0.11	0.186	2,123.14
1005	18-1-11	18-1-18	8	149.044	0	39	1.518	0.22	0.11	0.147	364.602
1013	18-3-35	18-3-36	12	292.402	0	73.5	1.274	0.22	0.11	0.221	689.014
1250	G&OADD1	21-3-12	12	389.309	0.02	239.2	4.15	0.22	0.11	0.22	2,246.06
1241	21-3-11	21-3-31	12	144.196	0.02	243.5	4.238	0.22	0.11	0.22	2,297.16
1240	21-3-10	21-3-05	15	274.714	0.01	337	3.78	0.22	0.11	0.274	3,210.21
1306	28-1-02	28-1-01	8	247.684	0.05	126.8	5.026	0.22	0.1	0.145	1,216.75
1260	21-4-11	21-4-09	8	350.326	0.04	107.8	4.294	0.22	0.1	0.145	1,041.49
1210	20-4-18	20-4-17	10	22.66	0.05	233.1	5.974	0.22	0.1	0.18	2,268.95
1398	30-2-32	30-2-14	10	143.05	0.01	85.5	2.207	0.22	0.1	0.179	840.701
1027	19-1-01	18-4-27	8	420.515	0.01	50.4	2.034	0.22	0.1	0.144	496.115
1046	19-1-21	19-1-20	8	60.527	0	22.2	0.903	0.21	0.1	0.143	221.037
1296	27-2-10	27-2-11	8	230.854	0.03	95.2	3.906	0.21	0.1	0.142	959.031
1218	21-1-02	WRFHEADWORKS	18	50	0.11	1,555.70	12.61	0.21	0.1	0.319	15,678.35
1016	18-3-38	18-3-35	12	253.099	0	73.5	1.349	0.21	0.1	0.212	747.408
1133	19-4-11	19-4-09	8	444.228	0.01	51.8	2.145	0.21	0.1	0.141	528.762
1262	21-4-19	21-4-18	8	208.771	0.04	107.8	4.472	0.21	0.1	0.141	1,103.06
1297	27-2-11	27-2-12	8	180.846	0.03	95.2	3.984	0.21	0.1	0.14	986.377
1221	21-1-09	21-1-08	18	282.589	0.01	366.6	3.034	0.21	0.1	0.315	3,804.10
1220	21-1-08	21-1-06	18	761.813	0.01	366.6	3.037	0.21	0.1	0.314	3,810.51
1222	21-1-10	21-1-09	18	400.197	0.01	366.6	3.037	0.21	0.1	0.314	3,810.25
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	366.6	3.038	0.21	0.1	0.314	3,811.19
1227	21-2-07	21-1-10	18	102.071	0.01	366.6	3.048	0.21	0.1	0.313	3,829.92
1014	18-3-36	18-3-37	12	346.739	0	73.5	1.378	0.21	0.1	0.209	770.132
1131	19-4-08	19-4-07	8	699.032	0.01	51.8	2.189	0.21	0.1	0.139	544.176
1090	19-2-40	19-2-44	8	389.205	0.01	61.7	2.618	0.21	0.1	0.139	651.712

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1151	19-4-45	G&OADD2	8	185.247	0.02	80.2	3.404	0.21	0.1	0.139	847.557
1036	19-1-11	19-1-10	10	263.273	0	48.1	1.307	0.21	0.1	0.173	508.411
1248	21-3-31	21-3-10	12	133.4	0.03	243.5	4.618	0.21	0.09	0.207	2,593.32
1376	30-1-17	30-1-18	8	382.118	0.03	80.2	3.432	0.21	0.09	0.138	857.437
1041	19-1-16	20-2-38	15	446.292	0.01	233.7	2.845	0.21	0.09	0.258	2,499.76
1009	18-3-01	18-4-04	12	36.125	0.01	174.7	3.346	0.21	0.09	0.206	1,886.27
1374	30-1-15	30-1-16	8	321.214	0.03	80.2	3.464	0.21	0.09	0.137	868.858
1346	29-1-06	29-1-05	10	254.333	0.07	233.1	6.459	0.21	0.09	0.171	2,534.09
1130	19-4-07	19-4-06	8	605.46	0.01	51.8	2.265	0.2	0.09	0.136	571.195
1228	21-2-11	21-2-08	18	760.617	0.01	344.3	2.977	0.2	0.09	0.305	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	344.3	2.982	0.2	0.09	0.305	3,810.33
1256	21-4-07	21-4-06	8	60.782	0.05	107.8	4.73	0.2	0.09	0.135	1,193.95
1244	21-3-17	21-3-11	12	186.646	0.03	239.2	4.757	0.2	0.09	0.2	2,724.62
1318	28-1-29	28-1-20	8	363.951	0.05	107.8	4.845	0.2	0.09	0.133	1,235.61
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	95.2	4.284	0.2	0.09	0.133	1,092.97
1132	19-4-09	19-4-08	8	681.983	0.01	51.8	2.335	0.2	0.09	0.133	596.292
1329	28-3-14	28-3-12	8	340.805	0.04	88.7	4.001	0.2	0.09	0.133	1,021.69
1396	30-2-23	30-2-21	10	196.778	0.01	85.5	2.471	0.2	0.09	0.166	986.537
1261	21-4-18	21-4-10	8	249.725	0.05	107.8	4.903	0.2	0.09	0.132	1,256.39
1403	30-3-05	30-3-04	8	115.798	0.01	31.6	1.446	0.2	0.09	0.131	371.352
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1114	19-3-31	19-3-30	8	104.645	0	27.9	1.299	0.2	0.08	0.13	336.21
1308	28-1-04	28-1-03	8	163.086	0.08	126.8	5.924	0.19	0.08	0.13	1,535.33
1370	30-1-07	30-1-06	8	418.833	0.01	31.6	1.483	0.19	0.08	0.129	385.06
1378	30-1-19	19-4-50	8	139.234	0.07	117.4	5.512	0.19	0.08	0.129	1,431.63
1115	19-3-32	19-3-31	8	403.213	0	27.9	1.314	0.19	0.08	0.129	341.484
1112	19-3-28	30-2-13	8	269.428	0	27.9	1.317	0.19	0.08	0.129	342.696
1284	24-4-26	24-4-27	8	230.476	0	27.9	1.319	0.19	0.08	0.128	343.574
1285	24-4-27	19-3-32	8	415.524	0	27.9	1.32	0.19	0.08	0.128	343.712

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1283	24-4-25	24-4-26	8	399.92	0	27.9	1.32	0.19	0.08	0.128	343.964
1282	24-4-24	24-4-25	8	297.246	0	27.9	1.321	0.19	0.08	0.128	344.076
1288	27-2-01	28-1-31	8	255.578	0.06	107.8	5.131	0.19	0.08	0.128	1,340.06
1129	19-4-06	20-3-07	8	70.467	0.01	51.8	2.476	0.19	0.08	0.127	647.808
1287	24-4-39	24-4-34	8	662.433	0	27.9	1.341	0.19	0.08	0.127	351.648
1037	19-1-12	19-1-11	8	136.141	0.01	48.1	2.316	0.19	0.08	0.127	607.673
1233	21-3-03	21-3-02	15	273.312	0.02	344.3	4.737	0.19	0.08	0.237	4,378.42
1390	30-2-16	30-2-15	10	360.927	0.01	85.5	2.66	0.19	0.08	0.158	1,094.81
1343	29-1-02	29-1-28	10	420.998	0.09	233.1	7.285	0.19	0.08	0.157	3,004.81
1004	18-1-10	18-1-11	8	343.962	0.01	39	1.907	0.19	0.08	0.125	503.61
1018	18-4-02	18-4-01	12	189.934	0.02	174.7	3.81	0.19	0.08	0.188	2,267.84
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1310	28-1-10	28-1-09	12	230.353	0.01	126.8	2.794	0.19	0.08	0.186	1,670.30
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
1382	30-2-01	30-1-07	8	267.898	0.01	31.6	1.577	0.19	0.08	0.124	420.257
1015	18-3-37	18-4-01	12	274.98	0	73.5	1.646	0.18	0.07	0.184	990.753
1010	18-3-10	18-3-01	12	398.208	0.02	174.7	3.916	0.18	0.07	0.184	2,357.59
1207	20-4-15	20-4-13	12	195.888	0.06	285.6	6.477	0.18	0.07	0.183	3,918.42
1003	18-1-09	18-1-10	8	367.771	0.01	39	2.017	0.18	0.07	0.121	545.445
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1315	28-1-14	28-1-13	8	328.472	0.05	88.7	4.601	0.18	0.07	0.12	1,245.47
1122	19-3-46	19-3-44	8	148.328	0	24.3	1.267	0.18	0.07	0.12	343.549
1123	19-3-47	19-3-46	8	301.624	0	24.3	1.267	0.18	0.07	0.12	343.858
1113	19-3-30	19-3-28	8	590.482	0.01	27.9	1.456	0.18	0.07	0.12	395.288
1347	29-1-07	29-1-06	10	262.001	0.12	233.1	7.871	0.18	0.07	0.149	3,353.04
1389	30-2-15	30-2-32	10	284.705	0.02	85.5	2.892	0.18	0.07	0.149	1,232.68
1072	19-2-18	19-1-25	8	597.147	0.01	31.6	1.671	0.18	0.07	0.119	456.061
1198	20-3-07	20-3-06	8	454.124	0.02	51.8	2.788	0.18	0.07	0.117	766.399
1031	19-1-05	19-1-04	10	303.991	0.01	48.1	1.663	0.18	0.07	0.146	715.317
1030	19-1-04	19-1-03	10	300.714	0.01	48.1	1.669	0.18	0.07	0.146	719.204

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1394	30-2-20	30-2-19	10	277.422	0.02	85.5	2.979	0.18	0.07	0.146	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	85.5	2.98	0.18	0.07	0.146	1,286.47
1002	18-1-08	18-1-09	8	365.984	0.01	39	2.127	0.17	0.07	0.116	588.071
1275	24-1-15	24-1-14	12	431.609	0.02	147.8	3.607	0.17	0.07	0.174	2,250.02
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1201	20-3-11	20-2-10	8	276.468	0	21.6	1.226	0.17	0.06	0.113	344.57
1092	19-2-46	19-2-53	10	355.676	0.01	61.7	2.273	0.17	0.06	0.14	1,004.28
1395	30-2-21	30-2-20	10	217.583	0.02	85.5	3.153	0.17	0.06	0.14	1,394.12
1286	24-4-34	24-4-24	8	208.15	0.01	27.9	1.617	0.17	0.06	0.112	458.545
1033	19-1-07	19-1-06	10	91.805	0.01	48.1	1.794	0.17	0.06	0.139	797.098
1050	19-1-25	19-1-24	8	722.453	0.01	31.6	1.852	0.17	0.06	0.111	527.58
1063	19-1-38	19-1-37	8	334.348	0.01	22.2	1.315	0.17	0.06	0.11	376.183
1340	28-4-04	28-4-03	8	400.195	0.08	88.7	5.272	0.16	0.06	0.11	1,511.06
1006	18-1-18	18-1-19	10	107.771	0.01	39	1.484	0.16	0.06	0.137	664.837
1029	19-1-03	19-1-02	10	300.714	0.01	48.1	1.837	0.16	0.06	0.137	823.951
1373	30-1-14	30-1-15	8	262.922	0.07	80.2	4.846	0.16	0.06	0.108	1,398.95
1307	28-1-03	28-1-02	8	155.436	0.17	126.8	7.672	0.16	0.06	0.108	2,215.51
973	17-2-16	17-2-17	10	217.198	0.01	39	1.517	0.16	0.06	0.135	685.544
1330	28-3-15	28-3-14	8	202.922	0.08	88.7	5.403	0.16	0.06	0.108	1,564.69
1049	19-1-24	19-1-23	8	632.352	0.01	31.6	1.94	0.16	0.06	0.107	563.915
1344	29-1-03	29-1-02	10	553.688	0.18	233.1	9.182	0.16	0.06	0.134	4,173.42
1276	24-1-16	24-1-15	12	354.375	0.03	147.8	4.105	0.16	0.06	0.159	2,704.08
1351	29-1-19	29-1-18	10	127.562	0.19	233.1	9.34	0.16	0.06	0.132	4,276.76
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1028	19-1-02	19-1-01	10	265.303	0.01	48.1	1.951	0.16	0.05	0.131	897.861
975	17-2-18	17-2-19	10	144.435	0.01	39	1.618	0.16	0.05	0.129	751.922
1045	19-1-20	19-1-38	8	252.835	0.01	22.2	1.45	0.15	0.05	0.103	432.594
1331	28-3-17	28-3-15	8	415.509	0.11	88.7	5.889	0.15	0.05	0.102	1,768.60
1208	20-4-16	20-4-15	12	367.616	0.13	285.6	8.46	0.15	0.05	0.152	5,726.79

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1388	30-2-14	30-2-13	10	491.303	0.03	85.5	3.648	0.15	0.05	0.127	1,714.76
1375	30-1-16	30-1-17	8	373.616	0.09	80.2	5.465	0.15	0.05	0.1	1,659.65
1135	19-4-13	19-4-12	8	327.186	0.01	24.3	1.656	0.15	0.05	0.1	503.061
1234	21-3-04	21-3-03	15	400.893	0.06	344.3	6.742	0.15	0.05	0.186	7,230.42
1339	28-4-03	28-3-17	8	355.875	0.12	88.7	6.174	0.15	0.05	0.098	1,891.81
1367	30-1-04	30-1-05	8	389.779	0.01	18.7	1.302	0.15	0.05	0.098	399.153
980	17-2-23	17-2-24	10	299.088	0.01	39	1.74	0.15	0.05	0.123	834.02
987	17-2-30	17-2-33	10	267.515	0.01	39	1.752	0.15	0.05	0.122	841.806
981	17-2-24	17-2-25	10	296.445	0.01	39	1.757	0.15	0.05	0.122	845.522
982	17-2-25	17-2-26	10	346.589	0.01	39	1.758	0.15	0.05	0.122	845.73
986	17-2-29	17-2-30	10	242.085	0.01	39	1.764	0.15	0.05	0.122	850.2
979	17-2-22	17-2-23	10	296.781	0.01	39	1.768	0.15	0.05	0.121	852.761
1074	19-2-20	19-2-19	8	50.941	0	15.5	1.102	0.15	0.05	0.097	340.737
1076	19-2-22	19-2-23	8	53.372	0	15.5	1.106	0.15	0.05	0.097	342.73
1077	19-2-23	19-2-21	8	264.88	0	15.5	1.108	0.15	0.05	0.096	343.357
1088	19-2-38	19-2-24	8	298.506	0	15.5	1.108	0.15	0.05	0.096	343.349
1078	19-2-24	19-2-22	8	301.341	0	15.5	1.109	0.15	0.05	0.096	343.735
1075	19-2-21	19-2-20	8	197.143	0	15.5	1.109	0.15	0.05	0.096	343.804
983	17-2-26	17-2-27	10	268.744	0.01	39	1.789	0.14	0.05	0.12	867.423
1073	19-2-19	19-2-18	8	231.269	0	15.5	1.115	0.14	0.05	0.096	346.692
1381	30-1-45	30-1-03	8	116.402	0.01	18.7	1.353	0.14	0.04	0.096	421.703
1369	30-1-06	30-1-08	8	302.642	0.05	50.3	3.672	0.14	0.04	0.095	1,148.53
1094	19-2-53	18-3-10	12	1,094.58	0.01	61.7	2.014	0.14	0.04	0.142	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	31.6	2.322	0.14	0.04	0.095	727.923
1195	20-3-03	20-3-04	8	39.636	0.09	71.1	5.226	0.14	0.04	0.095	1,638.88
1383	30-2-02	30-2-01	8	366.127	0.02	31.6	2.34	0.14	0.04	0.094	736.18
1034	19-1-08	19-1-07	10	303.907	0.01	48.1	2.294	0.14	0.04	0.117	1,131.17
1137	19-4-18	19-4-17	8	372.632	0.01	24.3	1.824	0.14	0.04	0.093	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	24.3	1.827	0.14	0.04	0.093	578.662
1048	19-1-23	19-1-22	8	431.333	0.02	31.6	2.38	0.14	0.04	0.093	754.348

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1044	19-1-19	19-1-18	8	188.782	0.01	22.2	1.674	0.14	0.04	0.093	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	22.2	1.676	0.14	0.04	0.093	531.765
978	17-2-21	17-2-22	10	242.47	0.01	39	1.901	0.14	0.04	0.115	945.568
1401	30-3-03	30-3-02	8	313.231	0.02	31.6	2.408	0.14	0.04	0.092	766.921
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1372	30-1-11	30-1-14	8	265.862	0.06	50.3	3.95	0.14	0.04	0.09	1,274.35
1400	30-3-02	30-3-01	8	281.493	0.02	31.6	2.5	0.14	0.04	0.09	809.001
1345	29-1-05	29-1-03	10	176.995	0.38	233.1	11.957	0.13	0.04	0.111	6,079.90
976	17-2-19	17-2-20	10	293.842	0.01	39	2.008	0.13	0.04	0.111	1,022.48
1032	19-1-06	19-1-05	10	215.234	0.02	48.1	2.496	0.13	0.04	0.111	1,275.16
984	17-2-27	17-2-28	10	226.538	0.01	39	2.043	0.13	0.04	0.11	1,048.14
989	17-2-32	PWPS	10	30.835	0.01	39	2.046	0.13	0.04	0.11	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	39	2.05	0.13	0.04	0.11	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	39	2.058	0.13	0.04	0.109	1,059.29
1402	30-3-04	30-3-03	8	249.614	0.03	31.6	2.607	0.13	0.04	0.087	859.109
1035	19-1-10	19-1-08	10	267.538	0.02	48.1	2.558	0.13	0.04	0.109	1,320.68
977	17-2-20	17-2-21	10	216.023	0.01	39	2.167	0.13	0.03	0.106	1,140.43
1309	28-1-09	28-1-04	12	242.622	0.05	126.8	4.897	0.13	0.03	0.127	3,711.32
1120	19-3-43	19-3-34	8	277.631	0.02	24.3	2.133	0.13	0.03	0.084	721.704
1012	18-3-33	18-3-38	12	234.47	0.02	73.5	2.885	0.13	0.03	0.125	2,201.35
990	17-2-33	17-2-31	10	99.544	0.02	39	2.233	0.12	0.03	0.103	1,190.00
1136	19-4-17	19-4-13	8	239.707	0.02	24.3	2.248	0.12	0.03	0.081	777.493
1245	21-3-28	21-3-10	18	171.574	0	93.5	1.711	0.12	0.03	0.182	2,997.81
1007	18-1-19	17-2-16	10	85.069	0.02	39	2.33	0.12	0.03	0.1	1,264.88
1042	19-1-17	19-1-16	8	442.425	0.02	22.2	2.184	0.12	0.03	0.077	775.604
1085	19-2-34	19-2-33	8	332.521	0.01	10.4	1.027	0.12	0.03	0.077	365.237
988	17-2-31	17-2-32	10	34.461	0.02	39	2.509	0.12	0.03	0.095	1,405.25
1371	30-1-08	30-1-11	8	56.083	0.11	50.3	5.075	0.11	0.03	0.076	1,822.60
1327	28-2-26	21-3-43	8	787.743	0.03	25.6	2.616	0.11	0.03	0.076	944.431
1404	30-3-06	30-3-05	8	479.243	0.05	31.6	3.246	0.11	0.03	0.075	1,174.62

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1086	19-2-35	19-2-34	8	404.934	0.01	10.4	1.078	0.11	0.03	0.075	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	10.4	1.079	0.11	0.03	0.075	392.259
1121	19-3-44	19-3-43	8	212.155	0.03	24.3	2.535	0.11	0.03	0.074	923.609
1084	19-2-33	19-2-32	8	344.933	0.01	10.4	1.101	0.11	0.03	0.074	403.597
1117	19-3-34	19-3-33	8	161.198	0.03	24.3	2.58	0.11	0.03	0.074	947.138
1056	19-1-31	19-1-26	8	343.667	0.01	11.7	1.324	0.11	0.02	0.07	499.538
1219	21-1-06	WRFHEADWORKS	18	50	0.11	366.6	8.205	0.11	0.02	0.158	15,678.35
1237	21-3-07	21-3-13	18	111.052	0	67.9	1.546	0.1	0.02	0.156	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	67.9	1.547	0.1	0.02	0.156	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	67.9	1.551	0.1	0.02	0.156	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	67.9	1.551	0.1	0.02	0.156	2,990.43
1079	19-2-28	19-1-21	8	650.475	0.01	10.4	1.211	0.1	0.02	0.069	462.245
1368	30-1-05	30-1-06	8	198.059	0.03	18.7	2.236	0.1	0.02	0.068	864.026
1176	20-2-08	20-2-07	12	357.855	0	21.6	1.152	0.1	0.02	0.101	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	21.6	1.163	0.1	0.02	0.101	1,016.62
1313	28-1-13	28-1-12	12	301.095	0.07	88.7	4.799	0.1	0.02	0.101	4,203.92
1174	20-2-06	20-2-05	12	193.076	0	21.6	1.175	0.1	0.02	0.1	1,032.05
1177	20-2-09	20-2-08	12	188.36	0	21.6	1.185	0.1	0.02	0.1	1,044.89
1083	19-2-32	19-2-31	8	315.193	0.01	10.4	1.285	0.1	0.02	0.066	503.307
1236	21-3-06	21-3-07	18	367.661	0	58.9	1.486	0.1	0.02	0.146	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	58.9	1.486	0.1	0.02	0.146	2,990.56
1178	20-2-10	20-2-09	12	270.361	0.01	21.6	1.27	0.1	0.02	0.095	1,153.76
1057	19-1-32	19-1-31	8	425.744	0.02	11.7	1.602	0.09	0.02	0.062	656.237
1246	21-3-29	21-3-28	10	393.116	0.02	25.6	2.247	0.09	0.02	0.077	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	25.6	3.579	0.09	0.02	0.061	1,479.62
1058	19-1-33	19-1-32	8	695.085	0.02	11.7	1.655	0.09	0.02	0.061	687.197
1366	30-1-03	30-1-04	8	322.785	0.04	18.7	2.722	0.09	0.02	0.059	1,144.59
1062	19-1-37	19-1-19	8	25.33	0.06	22.2	3.244	0.09	0.02	0.059	1,366.73
1116	19-3-33	19-4-18	8	61.971	0.08	24.3	3.598	0.09	0.02	0.059	1,524.43
1405	30-3-07	30-3-06	8	183.457	0.13	31.6	4.695	0.09	0.02	0.059	1,992.53

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1081	19-2-30	19-2-29	8	163.036	0.02	10.4	1.617	0.09	0.02	0.057	699.809
1080	19-2-29	19-2-28	8	17.12	0.02	10.4	1.649	0.08	0.01	0.056	719.866
1408	30-4-03	30-4-02	8	394.827	0.06	18.7	2.985	0.08	0.01	0.056	1,306.78
1082	19-2-31	19-2-30	8	149.404	0.02	10.4	1.667	0.08	0.01	0.056	731.037
1406	30-4-01	30-1-45	8	298.989	0.09	18.7	3.461	0.08	0.01	0.05	1,615.90
1252	21-4-03	21-4-02	12	24.809	0.53	126.8	10.887	0.07	0.01	0.073	11,650.78
1407	30-4-02	30-4-01	8	403.34	0.1	18.7	3.654	0.07	0.01	0.049	1,746.43
1324	28-2-09	28-2-10	10	57.427	0.07	25.6	3.457	0.07	0.01	0.058	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	25.6	3.467	0.07	0.01	0.058	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	25.6	3.532	0.07	0.01	0.057	2,752.41
1249	21-3-43	21-3-30	10	75.939	0.1	25.6	3.826	0.07	0.01	0.054	3,088.26
1038	19-1-13	19-1-01	8	398.608	0.01	2.3	0.836	0.05	0	0.032	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	2.3	0.885	0.05	0	0.031	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	2.3	0.959	0.04	0	0.029	638.155
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60

TABLE E-11

City of Sequim Existing Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
WITH Carlsborg Flows									
20-1-06	2000	10.2	10.2	0	105.542	Not Full	No	1894.46	7.915
27-2-05	2000	12.7	12.7	0	238.169	Not Full	No	1761.83	3.692
17-2-13	2,000.00	0	0	0	75.176	Not Full	No	1,924.82	0.756
20-1-19	2,000.00	0	0	0	115.319	Not Full	Yes	1,884.68	0.469
17-2-14	2,000.00	0	0	0	75.136	Not Full	Yes	1,924.86	0.416
20-1-20	2,000.00	9.9	9.9	0	115.413	Not Full	No	1,884.59	0.213
21-4-20	2,000.00	0	0	0	177.89	Not Full	Yes	1,822.11	0.183
20-1-13	2,000.00	0	0	0	114.46	Not Full	No	1,885.54	0.11
19-4-25	2,000.00	0	0	0	200.704	Not Full	Yes	1,799.30	0.037
17-2-12	2,000.00	0	0	0	75.4	Not Full	No	1,924.60	-0.02
17-4-01	2,000.00	10.5	10.5	0	152.415	Not Full	No	1,847.59	-0.085
20-1-25	2,000.00	0	0	0	115.506	Not Full	No	1,884.49	-0.194
19-2-44	2,000.00	0	0	0	176.667	Not Full	Yes	1,823.33	-0.2
19-4-22	2,000.00	0	0	0	184.819	Not Full	No	1,815.18	-0.247
19-1-30	2,000.00	0	0	0	190.795	Not Full	Yes	1,809.21	-0.271
19-2-54	2,000.00	0	0	0	200.386	Not Full	No	1,799.61	-0.281
19-2-16	2,000.00	0	0	0	203.173	Not Full	No	1,796.83	-0.284
19-2-15	2,000.00	120.7	120.7	0	207.113	Not Full	No	1,792.89	-0.284
19-2-17	2,000.00	0	0	0	197.482	Not Full	No	1,802.52	-0.284
19-2-59	2,000.00	0	0	0	199.367	Not Full	No	1,800.63	-0.289
20-3-01	2,000.00	0	0	0	167.509	Not Full	Yes	1,832.49	-0.291
19-4-23	2,000.00	0	0	0	192.669	Not Full	No	1,807.33	-0.298
19-4-24	2,000.00	0	0	0	200.168	Not Full	No	1,799.83	-0.298
19-4-26	2,000.00	0	0	0	205.563	Not Full	No	1,794.44	-0.303
30-2-25	2,000.00	0	0	0	258.62	Not Full	No	1,741.38	-0.306
19-1-29	2,000.00	6.2	6.2	0	185.56	Not Full	No	1,814.44	-0.307
30-2-12	2,000.00	37.5	37.5	0	260.899	Not Full	No	1,739.10	-0.307
30-2-11	2,000.00	0	0	0	259.889	Not Full	No	1,740.11	-0.308
19-1-28	2,000.00	0	0	0	180.855	Not Full	No	1,819.15	-0.311
19-4-32	2,000.00	0	0	0	212.852	Not Full	No	1,787.15	-0.314
19-4-27	2,000.00	0	0	0	209.451	Not Full	No	1,790.55	-0.315
19-4-33	2,000.00	35.3	35.3	0	215.648	Not Full	No	1,784.35	-0.318
29-3-16	2,000.00	0	0	0	524.147	Not Full	No	1,475.85	-0.32
19-4-47	2,000.00	0	0	0	187.546	Not Full	No	1,812.45	-0.321
19-4-46	2,000.00	0	0	0	187.296	Not Full	No	1,812.71	-0.321

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-3-06	2,000.00	0	0	0	170.803	Not Full	No	1,829.20	-0.33
19-4-34	2,000.00	0	0	0	219.022	Not Full	No	1,780.98	-0.345
19-4-40	2,000.00	2.6	2.6	0	225.105	Not Full	No	1,774.90	-0.361
28-1-20	2,000.00	0	0	0	185.864	Not Full	Yes	1,814.14	-0.372
G&OADD2	2,000.00	0	0	0	232.494	Not Full	No	1,767.51	-0.373
19-1-27	2,000.00	0	0	0	177.893	Not Full	No	1,822.11	-0.374
28-1-31	2,000.00	0	0	0	209.301	Not Full	Yes	1,790.70	-0.376
19-2-12	2,000.00	0	0	0	210.199	Not Full	No	1,789.80	-0.377
24-1-26	2,000.00	0	0	0	228.309	Not Full	No	1,771.69	-0.378
24-1-05	2,000.00	0	0	0	231.408	Not Full	No	1,768.59	-0.378
24-1-02	2,000.00	0	0	0	238.238	Not Full	No	1,761.76	-0.379
24-1-07	2,000.00	0	0	0	225.048	Not Full	No	1,774.95	-0.379
24-1-01	2,000.00	0	0	0	241.308	Not Full	No	1,758.69	-0.379
19-2-56	2,000.00	0	0	0	217.648	Not Full	No	1,782.35	-0.379
19-2-10	2,000.00	0	0	0	213.847	Not Full	No	1,786.15	-0.379
19-2-11	2,000.00	0	0	0	212.697	Not Full	No	1,787.30	-0.379
24-2-54	2,000.00	0	0	0	221.127	Not Full	No	1,778.87	-0.379
24-1-14	2,000.00	0	0	0	243.187	Not Full	No	1,756.81	-0.38
19-2-14	2,000.00	0	0	0	208.487	Not Full	No	1,791.51	-0.38
24-1-08	2,000.00	0	0	0	222.087	Not Full	No	1,777.91	-0.38
24-1-03	2,000.00	0	0	0	235.307	Not Full	No	1,764.69	-0.38
24-1-13	2,000.00	0	0	0	233.607	Not Full	No	1,766.39	-0.38
24-1-06	2,000.00	0	0	0	225.886	Not Full	No	1,774.11	-0.38
21-4-24	2,000.00	0	0	0	179.226	Not Full	Yes	1,820.77	-0.38
28-1-12	2,000.00	38.4	38.4	0	218.885	Not Full	Yes	1,781.12	-0.381
19-4-49	2,000.00	0	0	0	189.983	Not Full	Yes	1,810.02	-0.384
30-1-41	2,000.00	0	0	0	215.952	Not Full	Yes	1,784.05	-0.384
21-4-05	2,000.00	0	0	0	132.492	Not Full	Yes	1,867.51	-0.384
27-2-21	2,000.00	0	0	0	192.468	Not Full	No	1,807.53	-0.389
27-2-18	2,000.00	0	0	0	189.456	Not Full	Yes	1,810.54	-0.39
27-2-20	2,000.00	0	0	0	191.736	Not Full	No	1,808.26	-0.391
27-2-22	2,000.00	0	0	0	193.236	Not Full	No	1,806.76	-0.391
27-2-23	2,000.00	123.4	123.4	0	193.936	Not Full	No	1,806.06	-0.391
19-2-62	2,000.00	0	0	0	183.892	Not Full	No	1,816.11	-0.404
19-3-26	2,000.00	0	0	0	251.276	Not Full	No	1,748.72	-0.41
20-2-40	2,000.00	0	0	0	164.685	Not Full	Yes	1,835.32	-0.415

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-48	2,000.00	0	0	0	188.951	Not Full	No	1,811.05	-0.416
29-3-15	2,000.00	0	0	0	530.248	Not Full	No	1,469.75	-0.418
28-1-01	2,000.00	0	0	0	149.948	Not Full	No	1,850.05	-0.419
29-3-12	2,000.00	0	0	0	588.295	Not Full	No	1,411.71	-0.422
21-4-09	2,000.00	0	0	0	141.842	Not Full	No	1,858.16	-0.425
19-2-71	2,000.00	84.6	84.6	0	184.55	Not Full	No	1,815.45	-0.426
19-4-51	2,000.00	0	0	0	239.835	Not Full	No	1,760.17	-0.431
27-2-02	2,000.00	0	0	0	225.865	Not Full	No	1,774.14	-0.431
28-1-30	2,000.00	0	0	0	207.555	Not Full	No	1,792.45	-0.432
21-4-21	2,000.00	0	0	0	178.633	Not Full	No	1,821.37	-0.434
21-4-10	2,000.00	0	0	0	155.231	Not Full	No	1,844.77	-0.436
21-4-06	2,000.00	0	0	0	135.65	Not Full	No	1,864.35	-0.436
18-4-25	2,000.00	0	0	0	130.726	Not Full	No	1,869.27	-0.441
18-4-23	2,000.00	0	0	0	124.524	Not Full	No	1,875.48	-0.443
27-2-03	2,000.00	0	0	0	227.453	Not Full	No	1,772.55	-0.443
19-2-39	2,000.00	0	0	0	182.932	Not Full	No	1,817.07	-0.444
18-4-24	2,000.00	0	0	0	127.722	Not Full	No	1,872.28	-0.445
19-3-27	2,000.00	0	0	0	257.679	Not Full	No	1,742.32	-0.447
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
29-3-17	2,000.00	0	0	0	520.975	Not Full	Yes	1,479.03	-0.458
18-4-05	2,000.00	0	0	0	138.207	Not Full	No	1,861.79	-0.459
27-2-19	2,000.00	0	0	0	190.406	Not Full	No	1,809.59	-0.46
21-4-08	2,000.00	0	0	0	141.154	Not Full	No	1,858.85	-0.462
29-2-43	2,000.00	128.7	128.7	0	221.664	Not Full	No	1,778.34	-0.463
18-4-26	2,000.00	0	0	0	135.104	Not Full	No	1,864.90	-0.463
30-1-20	2,000.00	0	0	0	216.774	Not Full	No	1,783.23	-0.463
18-4-27	2,000.00	62.6	62.6	0	142.502	Not Full	No	1,857.50	-0.465
29-3-18	2,000.00	0	0	0	519.368	Not Full	No	1,480.63	-0.465
29-1-17	2,000.00	0	0	0	478.467	Not Full	Yes	1,521.53	-0.466
19-4-44	2,000.00	0	0	0	247.198	Not Full	No	1,752.80	-0.469
29-1-21	2,000.00	0	0	0	517.663	Not Full	No	1,482.34	-0.47
28-1-19	2,000.00	0	0	0	185.416	Not Full	No	1,814.58	-0.47
28-3-12	2,000.00	0	0	0	266.942	Not Full	No	1,733.06	-0.474
29-3-09	2,000.00	259.5	259.5	0	664.091	Not Full	No	1,335.91	-0.476
29-3-11	2,000.00	0	0	0	609.238	Not Full	No	1,390.76	-0.478

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-11	2,000.00	0	0	0	113.048	Not Full	Yes	1,886.95	-0.479
30-1-18	2,000.00	0	0	0	242.786	Not Full	No	1,757.21	-0.481
29-3-14	2,000.00	0	0	0	550.683	Not Full	No	1,449.32	-0.484
29-3-10	2,000.00	0	0	0	646.228	Not Full	No	1,353.77	-0.488
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
27-2-04	2,000.00	0	0	0	233.03	Not Full	No	1,766.97	-0.497
19-1-21	2,000.00	15.1	15.1	0	181.369	Not Full	Yes	1,818.63	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
19-4-45	2,000.00	0	0	0	236.869	Not Full	No	1,763.13	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
19-4-11	2,000.00	42.6	42.6	0	206.568	Not Full	No	1,793.43	-0.499
30-1-17	2,000.00	0	0	0	252.268	Not Full	No	1,747.73	-0.499
30-1-15	2,000.00	0	0	0	295.267	Not Full	No	1,704.73	-0.5
29-3-13	2,000.00	0	0	0	579.167	Not Full	No	1,420.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5
19-3-31	2,000.00	0	0	0	266.156	Not Full	No	1,733.84	-0.5
19-4-08	2,000.00	0	0	0	194.166	Not Full	No	1,805.83	-0.501
21-2-21	2,000.00	23.2	23.2	0	63.476	Not Full	No	1,936.52	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
19-3-32	2,000.00	0	0	0	267.745	Not Full	No	1,732.26	-0.502
19-3-28	2,000.00	0	0	0	262.635	Not Full	No	1,737.37	-0.502
24-4-26	2,000.00	0	0	0	270.324	Not Full	No	1,729.68	-0.502
24-4-27	2,000.00	0	0	0	269.404	Not Full	No	1,730.60	-0.502
24-4-25	2,000.00	0	0	0	271.924	Not Full	No	1,728.08	-0.502
24-4-24	2,000.00	0	0	0	273.114	Not Full	Yes	1,726.89	-0.502
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
21-4-11	2,000.00	0	0	0	154.863	Not Full	No	1,845.14	-0.504
24-4-39	2,000.00	45.8	45.8	0	277.362	Not Full	No	1,722.64	-0.504
19-2-40	2,000.00	0	0	0	181.952	Not Full	No	1,818.05	-0.504
19-4-07	2,000.00	0	0	0	187.162	Not Full	No	1,812.84	-0.505

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
27-2-10	2,000.00	0	0	0	188.491	Not Full	No	1,811.51	-0.505
18-1-10	2,000.00	0	0	0	116.069	Not Full	No	1,883.93	-0.507
27-2-11	2,000.00	0	0	0	181.209	Not Full	No	1,818.79	-0.507
19-4-09	2,000.00	0	0	0	202.358	Not Full	No	1,797.64	-0.508
28-4-02	2,000.00	0	0	0	264.088	Not Full	No	1,735.91	-0.508
21-4-19	2,000.00	0	0	0	177.178	Not Full	No	1,822.82	-0.509
19-4-50	2,000.00	0	0	0	204.657	Not Full	No	1,795.34	-0.509
18-1-09	2,000.00	0	0	0	119.863	Not Full	No	1,880.14	-0.513
19-3-30	2,000.00	0	0	0	265.743	Not Full	No	1,734.26	-0.513
21-4-07	2,000.00	0	0	0	138.752	Not Full	No	1,861.25	-0.515
19-4-06	2,000.00	0	0	0	180.472	Not Full	No	1,819.53	-0.515
27-2-12	2,000.00	0	0	0	175.251	Not Full	No	1,824.75	-0.515
20-2-41	2,000.00	0	0	0	166.284	Not Full	No	1,833.72	-0.516
28-1-29	2,000.00	0	0	0	204.609	Not Full	No	1,795.39	-0.517
19-1-01	2,000.00	0	0	0	145.948	Not Full	No	1,854.05	-0.518
21-4-18	2,000.00	0	0	0	168.478	Not Full	No	1,831.52	-0.518
20-2-39	2,000.00	0	0	0	162.981	Not Full	No	1,837.02	-0.519
18-1-08	2,000.00	63.2	63.2	0	124.238	Not Full	No	1,875.76	-0.519
28-1-02	2,000.00	0	0	0	162.247	Not Full	No	1,837.75	-0.52
30-3-05	2,000.00	0	0	0	383.015	Not Full	Yes	1,616.99	-0.522
27-2-01	2,000.00	0	0	0	224.773	Not Full	No	1,775.23	-0.523
24-4-34	2,000.00	0	0	0	274.572	Not Full	No	1,725.43	-0.524
30-1-07	2,000.00	0	0	0	349.142	Not Full	No	1,650.86	-0.525
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
20-3-07	2,000.00	0	0	0	179.46	Not Full	No	1,820.54	-0.527
20-2-42	2,000.00	18.5	18.5	0	167.07	Not Full	No	1,832.93	-0.53
30-1-04	2,000.00	0	0	0	354.136	Not Full	Yes	1,645.86	-0.53
30-2-01	2,000.00	0	0	0	350.736	Not Full	Yes	1,649.26	-0.531
19-3-46	2,000.00	0	0	0	247.698	Not Full	No	1,752.30	-0.531
19-3-47	2,000.00	31.1	31.1	0	248.903	Not Full	No	1,751.10	-0.531
30-1-19	2,000.00	0	0	0	214.385	Not Full	No	1,785.62	-0.532
28-3-14	2,000.00	0	0	0	278.914	Not Full	No	1,721.09	-0.532
30-1-45	2,000.00	0	0	0	369.133	Not Full	Yes	1,630.87	-0.534
30-1-14	2,000.00	44.6	44.6	0	312.632	Not Full	No	1,687.37	-0.535
20-1-34	2,000.00	10.1	10.1	0	117.865	Not Full	No	1,882.14	-0.535
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-1-04	2,000.00	0	0	0	201.031	Not Full	No	1,798.97	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
19-1-12	2,000.00	50.8	50.8	0	168.83	Not Full	No	1,831.17	-0.536
19-1-38	2,000.00	0	0	0	179.63	Not Full	No	1,820.37	-0.537
20-2-43	2,000.00	0	0	0	159.561	Not Full	No	1,840.44	-0.539
20-3-11	2,000.00	27.6	27.6	0	140.638	Not Full	No	1,859.36	-0.539
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
28-1-14	2,000.00	0	0	0	256.652	Not Full	No	1,743.35	-0.545
19-1-20	2,000.00	0	0	0	181.221	Not Full	No	1,818.78	-0.545
30-1-16	2,000.00	0	0	0	287.021	Not Full	No	1,712.98	-0.546
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
30-1-06	2,000.00	0	0	0	347.015	Not Full	No	1,652.99	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
20-1-30	2,000.00	10.1	10.1	0	116.946	Not Full	No	1,883.05	-0.554
19-4-13	2,000.00	0	0	0	211.812	Not Full	No	1,788.19	-0.554
28-4-04	2,000.00	91	91	0	414.011	Not Full	No	1,585.99	-0.556
19-1-19	2,000.00	0	0	0	176.41	Not Full	No	1,823.59	-0.557
19-1-18	2,000.00	0	0	0	174.61	Not Full	No	1,825.39	-0.557
30-1-11	2,000.00	0	0	0	327.21	Not Full	No	1,672.79	-0.557
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
28-1-03	2,000.00	0	0	0	188.009	Not Full	No	1,811.99	-0.557
28-3-15	2,000.00	0	0	0	295.689	Not Full	No	1,704.31	-0.558
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
19-4-18	2,000.00	0	0	0	220.905	Not Full	No	1,779.10	-0.562
19-4-12	2,000.00	0	0	0	209.005	Not Full	No	1,791.00	-0.562

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-06	2,000.00	0	0	0	56.138	Not Full	Yes	1,943.86	-0.562
20-2-05	2,000.00	0	0	0	134.287	Not Full	No	1,865.71	-0.563
30-3-01	2,000.00	0	0	0	363.644	Not Full	No	1,636.36	-0.563
30-2-02	2,000.00	0	0	0	357.413	Not Full	No	1,642.59	-0.563
28-3-17	2,000.00	0	0	0	340.033	Not Full	No	1,659.97	-0.564
21-3-12	2,000.00	0	0	0	120.036	Not Full	Yes	1,879.96	-0.564
30-2-13	2,000.00	0	0	0	261.669	Not Full	Yes	1,738.33	-0.565
30-3-03	2,000.00	0	0	0	376.101	Not Full	No	1,623.90	-0.565
17-2-11	2,000.00	0	0	0	75.454	Not Full	No	1,924.55	-0.566
28-4-03	2,000.00	0	0	0	383.099	Not Full	No	1,616.90	-0.567
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
30-3-02	2,000.00	0	0	0	369.869	Not Full	No	1,630.13	-0.568
20-2-25	2,000.00	7.6	7.6	0	140.442	Not Full	Yes	1,859.56	-0.568
17-2-06	2,000.00	0	0	0	87.921	Not Full	No	1,912.08	-0.569
20-1-39	2,000.00	9.3	9.3	0	119.531	Not Full	No	1,880.47	-0.569
21-1-01	2,000.00	0	0	0	53.08	Not Full	No	1,946.92	-0.57
30-3-04	2,000.00	0	0	0	382.326	Not Full	No	1,617.67	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
17-2-07	2,000.00	0	0	0	87.319	Not Full	No	1,912.68	-0.571
19-3-43	2,000.00	0	0	0	235.544	Not Full	No	1,764.46	-0.572
30-1-05	2,000.00	0	0	0	351.993	Not Full	No	1,648.01	-0.573
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
30-1-08	2,000.00	0	0	0	333.492	Not Full	No	1,666.51	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
17-2-05	2,000.00	0	0	0	89.225	Not Full	Yes	1,910.78	-0.575
19-1-17	2,000.00	0	0	0	168.091	Not Full	No	1,831.91	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
19-4-17	2,000.00	0	0	0	216.691	Not Full	No	1,783.31	-0.576
20-3-04	2,000.00	0	0	0	168.524	Not Full	No	1,831.48	-0.576
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
17-2-10	2,000.00	0	0	0	76.72	Not Full	Yes	1,923.28	-0.58
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
20-1-26	2,000.00	10.1	10.1	0	115.818	Not Full	No	1,884.18	-0.582
19-3-44	2,000.00	0	0	0	246.954	Not Full	No	1,753.05	-0.583
17-2-08	2,000.00	0	0	0	85.526	Not Full	No	1,914.47	-0.584

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
29-1-28	2,000.00	0	0	0	215.15	Not Full	No	1,784.85	-0.584
19-3-34	2,000.00	0	0	0	230.643	Not Full	No	1,769.36	-0.584
30-3-06	2,000.00	0	0	0	405.412	Not Full	No	1,594.59	-0.584
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
30-1-03	2,000.00	0	0	0	368.382	Not Full	No	1,631.62	-0.585
20-2-17	2,000.00	7.6	7.6	0	137.724	Not Full	Yes	1,862.28	-0.586
28-2-26	2,000.00	0	0	0	175.337	Not Full	No	1,824.66	-0.589
17-3-04	2,000.00	0	0	0	90.51	Not Full	No	1,909.49	-0.59
29-1-20	2,000.00	0	0	0	515.743	Not Full	No	1,484.26	-0.59
30-4-03	2,000.00	36.5	36.5	0	459.877	Not Full	No	1,540.12	-0.59
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
20-1-51	2,000.00	0	0	0	118.887	Not Full	No	1,881.11	-0.593
20-2-04	2,000.00	14.8	14.8	0	132.754	Not Full	No	1,867.25	-0.596
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
19-1-37	2,000.00	0	0	0	177.97	Not Full	No	1,822.03	-0.597
20-4-07	2,000.00	0	0	0	122.603	Not Full	No	1,877.40	-0.597
30-4-01	2,000.00	0	0	0	395.469	Not Full	No	1,604.53	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
20-2-46	2,000.00	0	0	0	136.012	Not Full	No	1,863.99	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
30-4-02	2,000.00	0	0	0	437.067	Not Full	No	1,562.93	-0.6
19-3-33	2,000.00	0	0	0	225.736	Not Full	No	1,774.26	-0.601
20-3-15	2,000.00	0	0	0	172.449	Not Full	No	1,827.55	-0.601
30-3-07	2,000.00	38.3	38.3	0	430.224	Not Full	No	1,569.78	-0.603
29-1-18	2,000.00	0	0	0	483.331	Not Full	No	1,516.67	-0.603
28-2-10	2,000.00	0	0	0	217.132	Not Full	No	1,782.87	-0.604
20-3-10	2,000.00	0	0	0	177.095	Not Full	No	1,822.91	-0.605
20-4-06	2,000.00	0	0	0	121.094	Not Full	No	1,878.91	-0.606
19-4-42	2,000.00	0	0	0	186.926	Not Full	No	1,813.07	-0.607
21-2-03	2,000.00	0	0	0	77.786	Not Full	Yes	1,922.21	-0.614
20-1-38	2,000.00	0	0	0	118.685	Not Full	No	1,881.32	-0.615
20-4-42	2,000.00	0	0	0	124.083	Not Full	Yes	1,875.92	-0.617
30-2-18	2,000.00	0	0	0	289.265	Not Full	No	1,710.74	-0.619
30-2-17	2,000.00	0	0	0	286.913	Not Full	No	1,713.09	-0.62
20-2-34	2,000.00	37.2	37.2	0	153.63	Not Full	No	1,846.37	-0.62

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-3-08	2,000.00	17.6	17.6	0	174.177	Not Full	No	1,825.82	-0.623
17-2-04	2,000.00	0	0	0	106.775	Not Full	No	1,893.23	-0.625
20-4-17	2,000.00	76.8	76.8	0	206.008	Not Full	No	1,793.99	-0.625
30-2-32	2,000.00	0	0	0	277.605	Not Full	No	1,722.40	-0.628
19-1-13	2,000.00	0	0	0	149.537	Not Full	No	1,850.46	-0.63
18-1-04	2,000.00	0	0	0	134.27	Not Full	Yes	1,865.73	-0.63
19-1-14	2,000.00	0	0	0	153.635	Not Full	No	1,846.37	-0.631
17-3-01	2,000.00	0	0	0	104.067	Not Full	No	1,895.93	-0.633
19-1-15	2,000.00	3.1	3.1	0	159.134	Not Full	No	1,840.87	-0.633
20-2-32	2,000.00	9.3	9.3	0	151.716	Not Full	No	1,848.28	-0.634
29-1-16	2,000.00	0	0	0	476.497	Not Full	No	1,523.50	-0.637
20-4-18	2,000.00	0	0	0	207.19	Not Full	No	1,792.81	-0.643
20-2-38	2,000.00	0	0	0	156.306	Not Full	No	1,843.69	-0.644
30-2-23	2,000.00	111.5	111.5	0	303.159	Not Full	No	1,696.84	-0.644
18-1-07	2,000.00	0	0	0	141.254	Not Full	Yes	1,858.75	-0.646
29-1-06	2,000.00	0	0	0	437.48	Not Full	No	1,562.52	-0.653
30-2-16	2,000.00	0	0	0	286.48	Not Full	No	1,713.52	-0.654
19-1-11	2,000.00	0	0	0	167.178	Not Full	Yes	1,832.82	-0.655
18-1-05	2,000.00	0	0	0	135.442	Not Full	No	1,864.56	-0.658
18-1-18	2,000.00	0	0	0	112.264	Not Full	No	1,887.74	-0.66
20-1-49	2,000.00	0	0	0	128.068	Not Full	No	1,871.93	-0.662
17-2-16	2,000.00	0	0	0	111.021	Not Full	Yes	1,888.98	-0.662
20-1-50	2,000.00	0	0	0	123.437	Not Full	No	1,876.56	-0.663
30-2-15	2,000.00	0	0	0	282.019	Not Full	No	1,717.98	-0.664
19-1-35	2,000.00	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
19-1-34	2,000.00	0	0	0	194.3	Not Full	No	1,805.70	-0.667
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
19-1-36	2,000.00	0	0	0	202.81	Not Full	No	1,797.19	-0.667
30-2-20	2,000.00	0	0	0	296.616	Not Full	No	1,703.38	-0.667
30-2-19	2,000.00	0	0	0	291.796	Not Full	No	1,708.20	-0.668
29-1-02	2,000.00	0	0	0	254.166	Not Full	No	1,745.83	-0.668
19-2-46	2,000.00	0	0	0	176.164	Not Full	No	1,823.84	-0.67
17-2-18	2,000.00	0	0	0	108.003	Not Full	Yes	1,892.00	-0.67
30-2-21	2,000.00	0	0	0	301.059	Not Full	No	1,698.94	-0.674
17-2-03	2,000.00	0	0	0	109.925	Not Full	No	1,890.08	-0.675
29-1-07	2,000.00	0	0	0	467.757	Not Full	No	1,532.24	-0.677
18-1-03	2,000.00	0	0	0	132.423	Not Full	No	1,867.58	-0.677
17-3-02	2,000.00	10.2	10.2	0	101.322	Not Full	No	1,898.68	-0.678
17-2-23	2,000.00	0	0	0	96.275	Not Full	No	1,903.73	-0.678
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
17-2-30	2,000.00	0	0	0	79.804	Not Full	No	1,920.20	-0.679
18-1-01	2,000.00	0	0	0	124.621	Not Full	No	1,875.38	-0.679
17-2-24	2,000.00	0	0	0	94.034	Not Full	No	1,905.97	-0.679
17-2-25	2,000.00	0	0	0	91.754	Not Full	No	1,908.25	-0.679
17-2-09	2,000.00	0	0	0	83.621	Not Full	No	1,916.38	-0.679
17-2-29	2,000.00	0	0	0	81.604	Not Full	No	1,918.40	-0.68
17-2-22	2,000.00	0	0	0	98.594	Not Full	No	1,901.41	-0.68
19-1-26	2,000.00	0	0	0	169.12	Not Full	No	1,830.88	-0.68
17-2-26	2,000.00	0	0	0	89.102	Not Full	No	1,910.90	-0.681
17-2-02	2,000.00	0	0	0	115.719	Not Full	No	1,884.28	-0.681
19-1-05	2,000.00	0	0	0	153.45	Not Full	Yes	1,846.55	-0.683
17-2-01	2,000.00	0	0	0	121.617	Not Full	No	1,878.38	-0.683
19-1-04	2,000.00	0	0	0	151.85	Not Full	No	1,848.15	-0.683
17-2-21	2,000.00	0	0	0	100.916	Not Full	No	1,899.08	-0.687
18-1-21	2,000.00	0	0	0	128.712	Not Full	No	1,871.29	-0.688
30-2-14	2,000.00	0	0	0	276.404	Not Full	No	1,723.60	-0.689

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-07	2,000.00	0	0	0	157.643	Not Full	No	1,842.36	-0.691
20-4-13	2,000.00	0	0	0	127.908	Not Full	No	1,872.09	-0.692
19-1-22	2,000.00	0	0	0	166.108	Not Full	No	1,833.89	-0.692
29-1-03	2,000.00	0	0	0	353.341	Not Full	No	1,646.66	-0.692
17-2-19	2,000.00	0	0	0	107.14	Not Full	No	1,892.86	-0.693
19-1-03	2,000.00	0	0	0	150.24	Not Full	No	1,849.76	-0.693
18-1-06	2,000.00	0	0	0	138.906	Not Full	No	1,861.09	-0.694
29-1-19	2,000.00	0	0	0	507.239	Not Full	No	1,492.76	-0.694
20-4-12	2,000.00	0	0	0	125.906	Not Full	No	1,874.09	-0.694
17-2-27	2,000.00	0	0	0	86.909	Not Full	No	1,913.09	-0.695
17-2-32	2,000.00	0	0	0	75.489	Not Full	No	1,924.51	-0.695
17-2-17	2,000.00	0	0	0	109.838	Not Full	No	1,890.16	-0.695
17-2-28	2,000.00	0	0	0	84.248	Not Full	No	1,915.75	-0.695
17-3-03	2,000.00	0	0	0	95.504	Not Full	No	1,904.50	-0.696
19-1-02	2,000.00	0	0	0	148.135	Not Full	No	1,851.87	-0.699
17-2-20	2,000.00	0	0	0	103.873	Not Full	No	1,896.13	-0.7
17-2-33	2,000.00	0	0	0	77.73	Not Full	No	1,922.27	-0.703
18-1-19	2,000.00	0	0	0	111.627	Not Full	No	1,888.37	-0.707
18-1-02	2,000.00	0	0	0	127.488	Not Full	No	1,872.51	-0.712
17-2-31	2,000.00	0	0	0	76.27	Not Full	No	1,923.73	-0.713
19-1-08	2,000.00	0	0	0	161.62	Not Full	No	1,838.38	-0.713
20-2-21	2,000.00	0	0	0	139.595	Not Full	No	1,860.41	-0.715
29-1-05	2,000.00	0	0	0	420.617	Not Full	No	1,579.38	-0.716
19-1-06	2,000.00	0	0	0	157.014	Not Full	No	1,842.99	-0.72
19-1-10	2,000.00	0	0	0	166.412	Not Full	No	1,833.59	-0.722
18-4-01	2,000.00	0	0	0	141.767	Not Full	No	1,858.23	-0.733
21-4-02	2,000.00	0	0	0	131.767	Not Full	No	1,868.23	-0.733
18-4-04	2,000.00	0	0	0	153.363	Not Full	No	1,846.64	-0.737
18-4-03	2,000.00	0	0	0	150.06	Not Full	No	1,849.94	-0.74
18-3-32	2,000.00	83.1	83.1	0	150.25	Not Full	No	1,849.75	-0.74
21-4-04	2,000.00	0	0	0	147.454	Not Full	Yes	1,852.55	-0.746
21-3-29	2,000.00	0	0	0	116.389	Not Full	No	1,883.61	-0.754
18-3-35	2,000.00	0	0	0	144.324	Not Full	No	1,855.68	-0.766
G&OADD1	2,000.00	4.9	4.9	0	127.474	Not Full	No	1,872.53	-0.766
21-3-11	2,000.00	5.5	5.5	0	113.934	Not Full	No	1,886.07	-0.766
28-1-11	2,000.00	0	0	0	217.734	Not Full	No	1,782.27	-0.766

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-3-01	2,000.00	0	0	0	153.833	Not Full	No	1,846.17	-0.767
28-2-09	2,000.00	0	0	0	221.339	Not Full	No	1,778.66	-0.774
28-4-07	2,000.00	26.8	26.8	0	238.159	Not Full	No	1,761.84	-0.775
18-3-38	2,000.00	0	0	0	144.965	Not Full	Yes	1,855.04	-0.775
21-3-30	2,000.00	0	0	0	142.208	Not Full	No	1,857.79	-0.775
18-3-36	2,000.00	0	0	0	143.672	Not Full	No	1,856.33	-0.778
21-3-43	2,000.00	0	0	0	151.455	Not Full	No	1,848.55	-0.778
21-3-31	2,000.00	0	0	0	110.96	Not Full	No	1,889.04	-0.78
21-3-17	2,000.00	0	0	0	119.303	Not Full	No	1,880.70	-0.787
18-4-02	2,000.00	0	0	0	145.513	Not Full	No	1,854.49	-0.787
18-3-10	2,000.00	139.9	139.9	0	162.418	Not Full	No	1,837.58	-0.792
24-1-15	2,000.00	0	0	0	251.598	Not Full	No	1,748.40	-0.802
20-4-15	2,000.00	0	0	0	139.498	Not Full	No	1,860.50	-0.802
18-3-37	2,000.00	0	0	0	142.746	Not Full	No	1,857.25	-0.804
28-1-10	2,000.00	0	0	0	216.588	Not Full	No	1,783.41	-0.812
24-1-16	2,000.00	193.2	193.2	0	261.661	Not Full	No	1,738.34	-0.819
21-2-22	2,000.00	0	0	0	77.072	Not Full	No	1,922.93	-0.828
21-2-01	2,000.00	0	0	0	96.947	Not Full	No	1,903.05	-0.833
21-2-02	2,000.00	0	0	0	90.807	Not Full	No	1,909.19	-0.833
19-2-53	2,000.00	0	0	0	170.976	Not Full	No	1,829.02	-0.834
20-1-07	2,000.00	0	0	0	113.265	Not Full	No	1,886.74	-0.835
20-4-16	2,000.00	0	0	0	186.364	Not Full	No	1,813.64	-0.836
20-2-29	2,000.00	8.3	8.3	0	149.412	Not Full	No	1,850.59	-0.838
20-2-28	2,000.00	0	0	0	147.472	Not Full	No	1,852.53	-0.838
18-3-33	2,000.00	0	0	0	149.393	Not Full	No	1,850.61	-0.867
28-1-09	2,000.00	0	0	0	214.028	Not Full	No	1,785.97	-0.872
20-2-08	2,000.00	0	0	0	137.314	Not Full	No	1,862.69	-0.886
20-2-07	2,000.00	0	0	0	135.913	Not Full	No	1,864.09	-0.887
20-2-06	2,000.00	0	0	0	134.513	Not Full	No	1,865.49	-0.887
20-2-09	2,000.00	0	0	0	138.112	Not Full	No	1,861.89	-0.888
20-2-10	2,000.00	0	0	0	139.507	Not Full	No	1,860.49	-0.893
28-1-13	2,000.00	0	0	0	239.402	Not Full	No	1,760.60	-0.898
21-3-02	2,000.00	0	0	0	69.147	Not Full	No	1,930.85	-0.903
19-1-16	2,000.00	0	0	0	159.344	Not Full	No	1,840.66	-0.906
21-3-05	2,000.00	8.3	8.3	0	104.229	Not Full	No	1,895.77	-0.921
21-4-03	2,000.00	0	0	0	144.674	Not Full	No	1,855.33	-0.926

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-3-10	2,000.00	0	0	0	107.543	Not Full	No	1,892.46	-0.957
21-3-03	2,000.00	0	0	0	75.254	Not Full	No	1,924.75	-0.996
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	99.998	Not Full	No	1,900.00	-1.052
21-1-02	2,000.00	0	0	0	49.471	Not Full	No	1,950.53	-1.129
21-1-09	2,000.00	0	0	0	56.221	Not Full	No	1,943.78	-1.159
21-1-08	2,000.00	0	0	0	54.391	Not Full	No	1,945.61	-1.159
21-1-10	2,000.00	14	14	0	58.821	Not Full	No	1,941.18	-1.159
21-2-08	2,000.00	0	0	0	60.786	Not Full	No	1,939.21	-1.164
21-2-07	2,000.00	0	0	0	59.485	Not Full	No	1,940.52	-1.165
21-2-11	2,000.00	0	0	0	65.697	Not Full	No	1,934.30	-1.173
21-3-01	2,000.00	0	0	0	67.806	Not Full	No	1,932.19	-1.174
21-3-28	2,000.00	0	0	0	108.137	Not Full	Yes	1,891.86	-1.303
21-3-07	2,000.00	10.1	10.1	0	111.183	Not Full	No	1,888.82	-1.327
21-3-08	2,000.00	0	0	0	108.823	Not Full	No	1,891.18	-1.327
21-3-13	2,000.00	0	0	0	110.743	Not Full	No	1,889.26	-1.327
21-3-09	2,000.00	0	0	0	108.643	Not Full	No	1,891.36	-1.327
21-1-06	2,000.00	0	0	0	49.271	Not Full	No	1,950.73	-1.329
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337
WITHOUT Carlsborg Flows									
20-1-06	2000	10.2	10.2	0	104.711	Not Full	No	1895.29	7.084
27-2-05	2000	12.7	12.7	0	238.169	Not Full	No	1761.83	3.692
17-2-13	2,000.00	0	0	0	75.176	Not Full	No	1,924.82	0.756
17-2-14	2,000.00	0	0	0	75.136	Not Full	Yes	1,924.86	0.416
20-1-19	2,000.00	0	0	0	115.177	Not Full	Yes	1,884.82	0.327
21-4-20	2,000.00	0	0	0	177.89	Not Full	Yes	1,822.11	0.183
20-1-20	2,000.00	9.9	9.9	0	115.27	Not Full	No	1,884.73	0.07
20-1-13	2,000.00	0	0	0	114.401	Not Full	No	1,885.60	0.051
19-4-25	2,000.00	0	0	0	200.704	Not Full	Yes	1,799.30	0.037
17-2-12	2,000.00	0	0	0	75.4	Not Full	No	1,924.60	-0.02
17-4-01	2,000.00	10.5	10.5	0	152.415	Not Full	No	1,847.59	-0.085
19-2-44	2,000.00	0	0	0	176.667	Not Full	Yes	1,823.33	-0.2
19-4-22	2,000.00	0	0	0	184.819	Not Full	No	1,815.18	-0.247
20-3-01	2,000.00	0	0	0	167.509	Not Full	Yes	1,832.49	-0.291
19-4-23	2,000.00	0	0	0	192.669	Not Full	No	1,807.33	-0.298

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-24	2,000.00	0	0	0	200.168	Not Full	No	1,799.83	-0.298
19-4-26	2,000.00	0	0	0	205.563	Not Full	No	1,794.44	-0.303
30-2-25	2,000.00	0	0	0	258.62	Not Full	No	1,741.38	-0.306
30-2-12	2,000.00	37.5	37.5	0	260.899	Not Full	No	1,739.10	-0.307
30-2-11	2,000.00	0	0	0	259.889	Not Full	No	1,740.11	-0.308
19-4-32	2,000.00	0	0	0	212.852	Not Full	No	1,787.15	-0.314
19-4-27	2,000.00	0	0	0	209.451	Not Full	No	1,790.55	-0.315
19-4-33	2,000.00	35.3	35.3	0	215.648	Not Full	No	1,784.35	-0.318
29-3-16	2,000.00	0	0	0	524.147	Not Full	No	1,475.85	-0.32
19-4-47	2,000.00	0	0	0	187.546	Not Full	No	1,812.45	-0.321
19-4-46	2,000.00	0	0	0	187.296	Not Full	No	1,812.71	-0.321
20-3-06	2,000.00	0	0	0	170.803	Not Full	No	1,829.20	-0.33
20-1-25	2,000.00	0	0	0	115.364	Not Full	No	1,884.64	-0.336
19-4-34	2,000.00	0	0	0	219.022	Not Full	No	1,780.98	-0.345
19-1-30	2,000.00	0	0	0	190.71	Not Full	No	1,809.29	-0.357
19-4-40	2,000.00	2.6	2.6	0	225.105	Not Full	No	1,774.90	-0.361
19-2-54	2,000.00	0	0	0	200.304	Not Full	No	1,799.70	-0.363
19-2-15	2,000.00	16.7	16.7	0	207.031	Not Full	No	1,792.97	-0.365
19-2-16	2,000.00	0	0	0	203.091	Not Full	No	1,796.91	-0.365
19-2-17	2,000.00	0	0	0	197.401	Not Full	No	1,802.60	-0.366
19-2-59	2,000.00	0	0	0	199.287	Not Full	No	1,800.71	-0.369
28-1-20	2,000.00	0	0	0	185.864	Not Full	Yes	1,814.14	-0.372
G&OADD2	2,000.00	0	0	0	232.494	Not Full	No	1,767.51	-0.373
28-1-31	2,000.00	0	0	0	209.301	Not Full	Yes	1,790.70	-0.376
19-2-12	2,000.00	0	0	0	210.199	Not Full	No	1,789.80	-0.377
24-1-26	2,000.00	0	0	0	228.309	Not Full	No	1,771.69	-0.378
24-1-05	2,000.00	0	0	0	231.408	Not Full	No	1,768.59	-0.378
24-1-02	2,000.00	0	0	0	238.238	Not Full	No	1,761.76	-0.379
24-1-07	2,000.00	0	0	0	225.048	Not Full	No	1,774.95	-0.379
24-1-01	2,000.00	0	0	0	241.308	Not Full	No	1,758.69	-0.379
19-2-56	2,000.00	0	0	0	217.648	Not Full	No	1,782.35	-0.379
19-2-10	2,000.00	0	0	0	213.847	Not Full	No	1,786.15	-0.379
19-2-11	2,000.00	0	0	0	212.697	Not Full	No	1,787.30	-0.379
24-2-54	2,000.00	0	0	0	221.127	Not Full	No	1,778.87	-0.379
24-1-14	2,000.00	0	0	0	243.187	Not Full	No	1,756.81	-0.38
19-2-14	2,000.00	0	0	0	208.487	Not Full	No	1,791.51	-0.38

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
24-1-08	2,000.00	0	0	0	222.087	Not Full	No	1,777.91	-0.38
24-1-03	2,000.00	0	0	0	235.307	Not Full	No	1,764.69	-0.38
24-1-13	2,000.00	0	0	0	233.607	Not Full	No	1,766.39	-0.38
19-1-29	2,000.00	6.2	6.2	0	185.487	Not Full	No	1,814.51	-0.38
24-1-06	2,000.00	0	0	0	225.886	Not Full	No	1,774.11	-0.38
21-4-24	2,000.00	0	0	0	179.226	Not Full	Yes	1,820.77	-0.38
28-1-12	2,000.00	38.4	38.4	0	218.885	Not Full	Yes	1,781.12	-0.381
19-1-28	2,000.00	0	0	0	180.783	Not Full	No	1,819.22	-0.384
19-4-49	2,000.00	0	0	0	189.983	Not Full	Yes	1,810.02	-0.384
30-1-41	2,000.00	0	0	0	215.952	Not Full	Yes	1,784.05	-0.384
21-4-05	2,000.00	0	0	0	132.492	Not Full	Yes	1,867.51	-0.384
27-2-21	2,000.00	0	0	0	192.468	Not Full	No	1,807.53	-0.389
27-2-18	2,000.00	0	0	0	189.456	Not Full	Yes	1,810.54	-0.39
27-2-20	2,000.00	0	0	0	191.736	Not Full	No	1,808.26	-0.391
27-2-22	2,000.00	0	0	0	193.236	Not Full	No	1,806.76	-0.391
27-2-23	2,000.00	123.4	123.4	0	193.936	Not Full	No	1,806.06	-0.391
19-2-62	2,000.00	0	0	0	183.892	Not Full	No	1,816.11	-0.404
19-3-26	2,000.00	0	0	0	251.276	Not Full	No	1,748.72	-0.41
20-2-40	2,000.00	0	0	0	164.685	Not Full	Yes	1,835.32	-0.415
19-4-48	2,000.00	0	0	0	188.951	Not Full	No	1,811.05	-0.416
29-3-15	2,000.00	0	0	0	530.248	Not Full	No	1,469.75	-0.418
28-1-01	2,000.00	0	0	0	149.948	Not Full	No	1,850.05	-0.419
29-3-12	2,000.00	0	0	0	588.295	Not Full	No	1,411.71	-0.422
21-4-09	2,000.00	0	0	0	141.842	Not Full	No	1,858.16	-0.425
19-2-71	2,000.00	84.6	84.6	0	184.55	Not Full	No	1,815.45	-0.426
19-1-27	2,000.00	0	0	0	177.836	Not Full	No	1,822.16	-0.43
19-4-51	2,000.00	0	0	0	239.835	Not Full	No	1,760.17	-0.431
27-2-02	2,000.00	0	0	0	225.865	Not Full	No	1,774.14	-0.431
28-1-30	2,000.00	0	0	0	207.555	Not Full	No	1,792.45	-0.432
21-4-21	2,000.00	0	0	0	178.633	Not Full	No	1,821.37	-0.434
21-4-10	2,000.00	0	0	0	155.231	Not Full	No	1,844.77	-0.436
21-4-06	2,000.00	0	0	0	135.65	Not Full	No	1,864.35	-0.436
18-4-25	2,000.00	0	0	0	130.726	Not Full	No	1,869.27	-0.441
18-4-23	2,000.00	0	0	0	124.524	Not Full	No	1,875.48	-0.443
27-2-03	2,000.00	0	0	0	227.453	Not Full	No	1,772.55	-0.443
19-2-39	2,000.00	0	0	0	182.932	Not Full	No	1,817.07	-0.444

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-4-24	2,000.00	0	0	0	127.722	Not Full	No	1,872.28	-0.445
19-3-27	2,000.00	0	0	0	257.679	Not Full	No	1,742.32	-0.447
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
29-3-17	2,000.00	0	0	0	520.975	Not Full	Yes	1,479.03	-0.458
18-4-05	2,000.00	0	0	0	138.207	Not Full	No	1,861.79	-0.459
27-2-19	2,000.00	0	0	0	190.406	Not Full	No	1,809.59	-0.46
21-4-08	2,000.00	0	0	0	141.154	Not Full	No	1,858.85	-0.462
29-2-43	2,000.00	128.7	128.7	0	221.664	Not Full	No	1,778.34	-0.463
18-4-26	2,000.00	0	0	0	135.104	Not Full	No	1,864.90	-0.463
30-1-20	2,000.00	0	0	0	216.774	Not Full	No	1,783.23	-0.463
18-4-27	2,000.00	62.6	62.6	0	142.502	Not Full	No	1,857.50	-0.465
29-3-18	2,000.00	0	0	0	519.368	Not Full	No	1,480.63	-0.465
29-1-17	2,000.00	0	0	0	478.467	Not Full	Yes	1,521.53	-0.466
19-4-44	2,000.00	0	0	0	247.198	Not Full	No	1,752.80	-0.469
29-1-21	2,000.00	0	0	0	517.663	Not Full	No	1,482.34	-0.47
28-1-19	2,000.00	0	0	0	185.416	Not Full	No	1,814.58	-0.47
28-3-12	2,000.00	0	0	0	266.942	Not Full	No	1,733.06	-0.474
29-3-09	2,000.00	259.5	259.5	0	664.091	Not Full	No	1,335.91	-0.476
29-3-11	2,000.00	0	0	0	609.238	Not Full	No	1,390.76	-0.478
18-1-11	2,000.00	0	0	0	113.048	Not Full	Yes	1,886.95	-0.479
30-1-18	2,000.00	0	0	0	242.786	Not Full	No	1,757.21	-0.481
29-3-14	2,000.00	0	0	0	550.683	Not Full	No	1,449.32	-0.484
29-3-10	2,000.00	0	0	0	646.228	Not Full	No	1,353.77	-0.488
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
27-2-04	2,000.00	0	0	0	233.03	Not Full	No	1,766.97	-0.497
19-1-21	2,000.00	15.1	15.1	0	181.369	Not Full	Yes	1,818.63	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
19-4-45	2,000.00	0	0	0	236.869	Not Full	No	1,763.13	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
19-4-11	2,000.00	42.6	42.6	0	206.568	Not Full	No	1,793.43	-0.499

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-1-17	2,000.00	0	0	0	252.268	Not Full	No	1,747.73	-0.499
30-1-15	2,000.00	0	0	0	295.267	Not Full	No	1,704.73	-0.5
29-3-13	2,000.00	0	0	0	579.167	Not Full	No	1,420.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5
19-3-31	2,000.00	0	0	0	266.156	Not Full	No	1,733.84	-0.5
19-4-08	2,000.00	0	0	0	194.166	Not Full	No	1,805.83	-0.501
21-2-21	2,000.00	23.2	23.2	0	63.476	Not Full	No	1,936.52	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
19-3-32	2,000.00	0	0	0	267.745	Not Full	No	1,732.26	-0.502
19-3-28	2,000.00	0	0	0	262.635	Not Full	No	1,737.37	-0.502
24-4-26	2,000.00	0	0	0	270.324	Not Full	No	1,729.68	-0.502
24-4-27	2,000.00	0	0	0	269.404	Not Full	No	1,730.60	-0.502
24-4-25	2,000.00	0	0	0	271.924	Not Full	No	1,728.08	-0.502
24-4-24	2,000.00	0	0	0	273.114	Not Full	Yes	1,726.89	-0.502
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
21-4-11	2,000.00	0	0	0	154.863	Not Full	No	1,845.14	-0.504
24-4-39	2,000.00	45.8	45.8	0	277.362	Not Full	No	1,722.64	-0.504
19-2-40	2,000.00	0	0	0	181.952	Not Full	No	1,818.05	-0.504
19-4-07	2,000.00	0	0	0	187.162	Not Full	No	1,812.84	-0.505
27-2-10	2,000.00	0	0	0	188.491	Not Full	No	1,811.51	-0.505
18-1-10	2,000.00	0	0	0	116.069	Not Full	No	1,883.93	-0.507
27-2-11	2,000.00	0	0	0	181.209	Not Full	No	1,818.79	-0.507
19-4-09	2,000.00	0	0	0	202.358	Not Full	No	1,797.64	-0.508
28-4-02	2,000.00	0	0	0	264.088	Not Full	No	1,735.91	-0.508
21-4-19	2,000.00	0	0	0	177.178	Not Full	No	1,822.82	-0.509
19-4-50	2,000.00	0	0	0	204.657	Not Full	No	1,795.34	-0.509
18-1-09	2,000.00	0	0	0	119.863	Not Full	No	1,880.14	-0.513
19-3-30	2,000.00	0	0	0	265.743	Not Full	No	1,734.26	-0.513
21-4-07	2,000.00	0	0	0	138.752	Not Full	No	1,861.25	-0.515
19-4-06	2,000.00	0	0	0	180.472	Not Full	No	1,819.53	-0.515
27-2-12	2,000.00	0	0	0	175.251	Not Full	No	1,824.75	-0.515
20-2-41	2,000.00	0	0	0	166.284	Not Full	No	1,833.72	-0.516
28-1-29	2,000.00	0	0	0	204.609	Not Full	No	1,795.39	-0.517
19-1-01	2,000.00	0	0	0	145.948	Not Full	No	1,854.05	-0.518
21-4-18	2,000.00	0	0	0	168.478	Not Full	No	1,831.52	-0.518

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-2-39	2,000.00	0	0	0	162.981	Not Full	No	1,837.02	-0.519
18-1-08	2,000.00	63.2	63.2	0	124.238	Not Full	No	1,875.76	-0.519
28-1-02	2,000.00	0	0	0	162.247	Not Full	No	1,837.75	-0.52
30-3-05	2,000.00	0	0	0	383.015	Not Full	Yes	1,616.99	-0.522
27-2-01	2,000.00	0	0	0	224.773	Not Full	No	1,775.23	-0.523
24-4-34	2,000.00	0	0	0	274.572	Not Full	No	1,725.43	-0.524
30-1-07	2,000.00	0	0	0	349.142	Not Full	No	1,650.86	-0.525
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
20-3-07	2,000.00	0	0	0	179.46	Not Full	No	1,820.54	-0.527
20-2-42	2,000.00	18.5	18.5	0	167.07	Not Full	No	1,832.93	-0.53
30-1-04	2,000.00	0	0	0	354.136	Not Full	Yes	1,645.86	-0.53
30-2-01	2,000.00	0	0	0	350.736	Not Full	Yes	1,649.26	-0.531
19-3-46	2,000.00	0	0	0	247.698	Not Full	No	1,752.30	-0.531
19-3-47	2,000.00	31.1	31.1	0	248.903	Not Full	No	1,751.10	-0.531
30-1-19	2,000.00	0	0	0	214.385	Not Full	No	1,785.62	-0.532
28-3-14	2,000.00	0	0	0	278.914	Not Full	No	1,721.09	-0.532
30-1-45	2,000.00	0	0	0	369.133	Not Full	Yes	1,630.87	-0.534
30-1-14	2,000.00	44.6	44.6	0	312.632	Not Full	No	1,687.37	-0.535
20-1-34	2,000.00	10.1	10.1	0	117.865	Not Full	No	1,882.14	-0.535
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536
28-1-04	2,000.00	0	0	0	201.031	Not Full	No	1,798.97	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
19-1-12	2,000.00	50.8	50.8	0	168.83	Not Full	No	1,831.17	-0.536
19-1-38	2,000.00	0	0	0	179.63	Not Full	No	1,820.37	-0.537
20-2-43	2,000.00	0	0	0	159.561	Not Full	No	1,840.44	-0.539
20-3-11	2,000.00	27.6	27.6	0	140.638	Not Full	No	1,859.36	-0.539
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
28-1-14	2,000.00	0	0	0	256.652	Not Full	No	1,743.35	-0.545
19-1-20	2,000.00	0	0	0	181.221	Not Full	No	1,818.78	-0.545
30-1-16	2,000.00	0	0	0	287.021	Not Full	No	1,712.98	-0.546
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
30-1-06	2,000.00	0	0	0	347.015	Not Full	No	1,652.99	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
20-1-30	2,000.00	10.1	10.1	0	116.946	Not Full	No	1,883.05	-0.554
19-4-13	2,000.00	0	0	0	211.812	Not Full	No	1,788.19	-0.554
28-4-04	2,000.00	91	91	0	414.011	Not Full	No	1,585.99	-0.556
19-1-19	2,000.00	0	0	0	176.41	Not Full	No	1,823.59	-0.557
19-1-18	2,000.00	0	0	0	174.61	Not Full	No	1,825.39	-0.557
30-1-11	2,000.00	0	0	0	327.21	Not Full	No	1,672.79	-0.557
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
28-1-03	2,000.00	0	0	0	188.009	Not Full	No	1,811.99	-0.557
28-3-15	2,000.00	0	0	0	295.689	Not Full	No	1,704.31	-0.558
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
19-4-18	2,000.00	0	0	0	220.905	Not Full	No	1,779.10	-0.562
19-4-12	2,000.00	0	0	0	209.005	Not Full	No	1,791.00	-0.562
30-3-01	2,000.00	0	0	0	363.644	Not Full	No	1,636.36	-0.563
30-2-02	2,000.00	0	0	0	357.413	Not Full	No	1,642.59	-0.563
28-3-17	2,000.00	0	0	0	340.033	Not Full	No	1,659.97	-0.564
21-3-12	2,000.00	0	0	0	120.036	Not Full	Yes	1,879.96	-0.564
30-2-13	2,000.00	0	0	0	261.669	Not Full	Yes	1,738.33	-0.565
30-3-03	2,000.00	0	0	0	376.101	Not Full	No	1,623.90	-0.565
17-2-11	2,000.00	0	0	0	75.454	Not Full	No	1,924.55	-0.566
28-4-03	2,000.00	0	0	0	383.099	Not Full	No	1,616.90	-0.567
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
30-3-02	2,000.00	0	0	0	369.869	Not Full	No	1,630.13	-0.568
17-2-06	2,000.00	0	0	0	87.921	Not Full	No	1,912.08	-0.569
20-1-39	2,000.00	9.3	9.3	0	119.531	Not Full	No	1,880.47	-0.569
30-3-04	2,000.00	0	0	0	382.326	Not Full	No	1,617.67	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
17-2-07	2,000.00	0	0	0	87.319	Not Full	No	1,912.68	-0.571
19-3-43	2,000.00	0	0	0	235.544	Not Full	No	1,764.46	-0.572

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-1-05	2,000.00	0	0	0	351.993	Not Full	No	1,648.01	-0.573
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
30-1-08	2,000.00	0	0	0	333.492	Not Full	No	1,666.51	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
17-2-05	2,000.00	0	0	0	89.225	Not Full	Yes	1,910.78	-0.575
19-1-17	2,000.00	0	0	0	168.091	Not Full	No	1,831.91	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
19-4-17	2,000.00	0	0	0	216.691	Not Full	No	1,783.31	-0.576
20-3-04	2,000.00	0	0	0	168.524	Not Full	No	1,831.48	-0.576
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
17-2-10	2,000.00	0	0	0	76.72	Not Full	Yes	1,923.28	-0.58
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
20-1-26	2,000.00	10.1	10.1	0	115.818	Not Full	No	1,884.18	-0.582
19-3-44	2,000.00	0	0	0	246.954	Not Full	No	1,753.05	-0.583
17-2-08	2,000.00	0	0	0	85.526	Not Full	No	1,914.47	-0.584
29-1-28	2,000.00	0	0	0	215.15	Not Full	No	1,784.85	-0.584
19-3-34	2,000.00	0	0	0	230.643	Not Full	No	1,769.36	-0.584
30-3-06	2,000.00	0	0	0	405.412	Not Full	No	1,594.59	-0.584
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
30-1-03	2,000.00	0	0	0	368.382	Not Full	No	1,631.62	-0.585
28-2-26	2,000.00	0	0	0	175.337	Not Full	No	1,824.66	-0.589
17-3-04	2,000.00	0	0	0	90.51	Not Full	No	1,909.49	-0.59
29-1-20	2,000.00	0	0	0	515.743	Not Full	No	1,484.26	-0.59
30-4-03	2,000.00	36.5	36.5	0	459.877	Not Full	No	1,540.12	-0.59
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
21-2-06	2,000.00	0	0	0	56.107	Not Full	Yes	1,943.89	-0.593
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
19-1-37	2,000.00	0	0	0	177.97	Not Full	No	1,822.03	-0.597
20-4-07	2,000.00	0	0	0	122.603	Not Full	No	1,877.40	-0.597
30-4-01	2,000.00	0	0	0	395.469	Not Full	No	1,604.53	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
30-4-02	2,000.00	0	0	0	437.067	Not Full	No	1,562.93	-0.6
20-2-05	2,000.00	0	0	0	134.25	Not Full	No	1,865.75	-0.6

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-3-33	2,000.00	0	0	0	225.736	Not Full	No	1,774.26	-0.601
20-3-15	2,000.00	0	0	0	172.449	Not Full	No	1,827.55	-0.601
21-1-01	2,000.00	0	0	0	53.049	Not Full	No	1,946.95	-0.601
30-3-07	2,000.00	38.3	38.3	0	430.224	Not Full	No	1,569.78	-0.603
29-1-18	2,000.00	0	0	0	483.331	Not Full	No	1,516.67	-0.603
28-2-10	2,000.00	0	0	0	217.132	Not Full	No	1,782.87	-0.604
20-3-10	2,000.00	0	0	0	177.095	Not Full	No	1,822.91	-0.605
20-4-06	2,000.00	0	0	0	121.094	Not Full	No	1,878.91	-0.606
20-2-25	2,000.00	7.6	7.6	0	140.404	Not Full	Yes	1,859.60	-0.606
19-4-42	2,000.00	0	0	0	186.926	Not Full	No	1,813.07	-0.607
20-1-38	2,000.00	0	0	0	118.685	Not Full	No	1,881.32	-0.615
20-1-51	2,000.00	0	0	0	118.863	Not Full	No	1,881.14	-0.617
20-4-42	2,000.00	0	0	0	124.083	Not Full	Yes	1,875.92	-0.617
30-2-18	2,000.00	0	0	0	289.265	Not Full	No	1,710.74	-0.619
30-2-17	2,000.00	0	0	0	286.913	Not Full	No	1,713.09	-0.62
20-2-04	2,000.00	14.8	14.8	0	132.73	Not Full	No	1,867.27	-0.62
20-3-08	2,000.00	17.6	17.6	0	174.177	Not Full	No	1,825.82	-0.623
20-2-17	2,000.00	7.6	7.6	0	137.687	Not Full	Yes	1,862.31	-0.623
17-2-04	2,000.00	0	0	0	106.775	Not Full	No	1,893.23	-0.625
20-4-17	2,000.00	76.8	76.8	0	206.008	Not Full	No	1,793.99	-0.625
30-2-32	2,000.00	0	0	0	277.605	Not Full	No	1,722.40	-0.628
19-1-13	2,000.00	0	0	0	149.537	Not Full	No	1,850.46	-0.63
18-1-04	2,000.00	0	0	0	134.27	Not Full	Yes	1,865.73	-0.63
19-1-14	2,000.00	0	0	0	153.635	Not Full	No	1,846.37	-0.631
17-3-01	2,000.00	0	0	0	104.067	Not Full	No	1,895.93	-0.633
19-1-15	2,000.00	3.1	3.1	0	159.134	Not Full	No	1,840.87	-0.633
20-2-46	2,000.00	0	0	0	135.977	Not Full	No	1,864.02	-0.633
29-1-16	2,000.00	0	0	0	476.497	Not Full	No	1,523.50	-0.637
21-2-03	2,000.00	0	0	0	77.758	Not Full	Yes	1,922.24	-0.642
20-4-18	2,000.00	0	0	0	207.19	Not Full	No	1,792.81	-0.643
30-2-23	2,000.00	111.5	111.5	0	303.159	Not Full	No	1,696.84	-0.644
18-1-07	2,000.00	0	0	0	141.254	Not Full	Yes	1,858.75	-0.646
29-1-06	2,000.00	0	0	0	437.48	Not Full	No	1,562.52	-0.653
30-2-16	2,000.00	0	0	0	286.48	Not Full	No	1,713.52	-0.654
20-2-34	2,000.00	37.2	37.2	0	153.595	Not Full	No	1,846.41	-0.655
19-1-11	2,000.00	0	0	0	167.178	Not Full	Yes	1,832.82	-0.655

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-05	2,000.00	0	0	0	135.442	Not Full	No	1,864.56	-0.658
18-1-18	2,000.00	0	0	0	112.264	Not Full	No	1,887.74	-0.66
17-2-16	2,000.00	0	0	0	111.021	Not Full	Yes	1,888.98	-0.662
30-2-15	2,000.00	0	0	0	282.019	Not Full	No	1,717.98	-0.664
19-1-35	2,000.00	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
19-1-36	2,000.00	0	0	0	202.81	Not Full	No	1,797.19	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
19-1-34	2,000.00	0	0	0	194.3	Not Full	No	1,805.70	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
20-2-32	2,000.00	9.3	9.3	0	151.683	Not Full	No	1,848.32	-0.667
30-2-20	2,000.00	0	0	0	296.616	Not Full	No	1,703.38	-0.667
30-2-19	2,000.00	0	0	0	291.796	Not Full	No	1,708.20	-0.668
29-1-02	2,000.00	0	0	0	254.166	Not Full	No	1,745.83	-0.668
19-2-46	2,000.00	0	0	0	176.164	Not Full	No	1,823.84	-0.67
17-2-18	2,000.00	0	0	0	108.003	Not Full	Yes	1,892.00	-0.67
30-2-21	2,000.00	0	0	0	301.059	Not Full	No	1,698.94	-0.674
17-2-03	2,000.00	0	0	0	109.925	Not Full	No	1,890.08	-0.675
29-1-07	2,000.00	0	0	0	467.757	Not Full	No	1,532.24	-0.677
18-1-03	2,000.00	0	0	0	132.423	Not Full	No	1,867.58	-0.677
20-2-38	2,000.00	0	0	0	156.272	Not Full	No	1,843.73	-0.678
17-3-02	2,000.00	10.2	10.2	0	101.322	Not Full	No	1,898.68	-0.678

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
17-2-23	2,000.00	0	0	0	96.275	Not Full	No	1,903.73	-0.678
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
17-2-30	2,000.00	0	0	0	79.804	Not Full	No	1,920.20	-0.679
18-1-01	2,000.00	0	0	0	124.621	Not Full	No	1,875.38	-0.679
17-2-24	2,000.00	0	0	0	94.034	Not Full	No	1,905.97	-0.679
17-2-25	2,000.00	0	0	0	91.754	Not Full	No	1,908.25	-0.679
17-2-09	2,000.00	0	0	0	83.621	Not Full	No	1,916.38	-0.679
17-2-29	2,000.00	0	0	0	81.604	Not Full	No	1,918.40	-0.68
17-2-22	2,000.00	0	0	0	98.594	Not Full	No	1,901.41	-0.68
17-2-26	2,000.00	0	0	0	89.102	Not Full	No	1,910.90	-0.681
17-2-02	2,000.00	0	0	0	115.719	Not Full	No	1,884.28	-0.681
20-1-49	2,000.00	0	0	0	128.047	Not Full	No	1,871.95	-0.683
19-1-05	2,000.00	0	0	0	153.45	Not Full	Yes	1,846.55	-0.683
17-2-01	2,000.00	0	0	0	121.617	Not Full	No	1,878.38	-0.683
19-1-04	2,000.00	0	0	0	151.85	Not Full	No	1,848.15	-0.683
20-1-50	2,000.00	0	0	0	123.416	Not Full	No	1,876.58	-0.684
17-2-21	2,000.00	0	0	0	100.916	Not Full	No	1,899.08	-0.687
18-1-21	2,000.00	0	0	0	128.712	Not Full	No	1,871.29	-0.688
30-2-14	2,000.00	0	0	0	276.404	Not Full	No	1,723.60	-0.689
19-1-07	2,000.00	0	0	0	157.643	Not Full	No	1,842.36	-0.691
20-4-13	2,000.00	0	0	0	127.908	Not Full	No	1,872.09	-0.692
29-1-03	2,000.00	0	0	0	353.341	Not Full	No	1,646.66	-0.692
17-2-19	2,000.00	0	0	0	107.14	Not Full	No	1,892.86	-0.693
19-1-03	2,000.00	0	0	0	150.24	Not Full	No	1,849.76	-0.693
18-1-06	2,000.00	0	0	0	138.906	Not Full	No	1,861.09	-0.694
29-1-19	2,000.00	0	0	0	507.239	Not Full	No	1,492.76	-0.694
20-4-12	2,000.00	0	0	0	125.906	Not Full	No	1,874.09	-0.694
17-2-27	2,000.00	0	0	0	86.909	Not Full	No	1,913.09	-0.695
17-2-32	2,000.00	0	0	0	75.489	Not Full	No	1,924.51	-0.695
17-2-17	2,000.00	0	0	0	109.838	Not Full	No	1,890.16	-0.695
17-2-28	2,000.00	0	0	0	84.248	Not Full	No	1,915.75	-0.695
17-3-03	2,000.00	0	0	0	95.504	Not Full	No	1,904.50	-0.696
19-1-02	2,000.00	0	0	0	148.135	Not Full	No	1,851.87	-0.699
17-2-20	2,000.00	0	0	0	103.873	Not Full	No	1,896.13	-0.7
17-2-33	2,000.00	0	0	0	77.73	Not Full	No	1,922.27	-0.703
18-1-19	2,000.00	0	0	0	111.627	Not Full	No	1,888.37	-0.707

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-02	2,000.00	0	0	0	127.488	Not Full	No	1,872.51	-0.712
17-2-31	2,000.00	0	0	0	76.27	Not Full	No	1,923.73	-0.713
19-1-08	2,000.00	0	0	0	161.62	Not Full	No	1,838.38	-0.713
29-1-05	2,000.00	0	0	0	420.617	Not Full	No	1,579.38	-0.716
19-1-06	2,000.00	0	0	0	157.014	Not Full	No	1,842.99	-0.72
19-1-10	2,000.00	0	0	0	166.412	Not Full	No	1,833.59	-0.722
18-4-01	2,000.00	0	0	0	141.767	Not Full	No	1,858.23	-0.733
21-4-02	2,000.00	0	0	0	131.767	Not Full	No	1,868.23	-0.733
19-1-26	2,000.00	0	0	0	169.065	Not Full	No	1,830.94	-0.735
18-4-04	2,000.00	0	0	0	153.363	Not Full	No	1,846.64	-0.737
19-1-22	2,000.00	0	0	0	166.062	Not Full	No	1,833.94	-0.738
18-4-03	2,000.00	0	0	0	150.06	Not Full	No	1,849.94	-0.74
18-3-32	2,000.00	83.1	83.1	0	150.25	Not Full	No	1,849.75	-0.74
20-2-21	2,000.00	0	0	0	139.568	Not Full	No	1,860.43	-0.742
21-4-04	2,000.00	0	0	0	147.454	Not Full	Yes	1,852.55	-0.746
21-3-29	2,000.00	0	0	0	116.389	Not Full	No	1,883.61	-0.754
18-3-35	2,000.00	0	0	0	144.324	Not Full	No	1,855.68	-0.766
G&OADD1	2,000.00	4.9	4.9	0	127.474	Not Full	No	1,872.53	-0.766
21-3-11	2,000.00	5.5	5.5	0	113.934	Not Full	No	1,886.07	-0.766
28-1-11	2,000.00	0	0	0	217.734	Not Full	No	1,782.27	-0.766
18-3-01	2,000.00	0	0	0	153.833	Not Full	No	1,846.17	-0.767
28-2-09	2,000.00	0	0	0	221.339	Not Full	No	1,778.66	-0.774
28-4-07	2,000.00	26.8	26.8	0	238.159	Not Full	No	1,761.84	-0.775
18-3-38	2,000.00	0	0	0	144.965	Not Full	Yes	1,855.04	-0.775
21-3-30	2,000.00	0	0	0	142.208	Not Full	No	1,857.79	-0.775
18-3-36	2,000.00	0	0	0	143.672	Not Full	No	1,856.33	-0.778
21-3-43	2,000.00	0	0	0	151.455	Not Full	No	1,848.55	-0.778
21-3-31	2,000.00	0	0	0	110.96	Not Full	No	1,889.04	-0.78
21-3-17	2,000.00	0	0	0	119.303	Not Full	No	1,880.70	-0.787
18-4-02	2,000.00	0	0	0	145.513	Not Full	No	1,854.49	-0.787
18-3-10	2,000.00	139.9	139.9	0	162.418	Not Full	No	1,837.58	-0.792
24-1-15	2,000.00	0	0	0	251.598	Not Full	No	1,748.40	-0.802
20-4-15	2,000.00	0	0	0	139.498	Not Full	No	1,860.50	-0.802
18-3-37	2,000.00	0	0	0	142.746	Not Full	No	1,857.25	-0.804
28-1-10	2,000.00	0	0	0	216.588	Not Full	No	1,783.41	-0.812
24-1-16	2,000.00	193.2	193.2	0	261.661	Not Full	No	1,738.34	-0.819

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-53	2,000.00	0	0	0	170.976	Not Full	No	1,829.02	-0.834
20-4-16	2,000.00	0	0	0	186.364	Not Full	No	1,813.64	-0.836
21-2-22	2,000.00	0	0	0	77.053	Not Full	No	1,922.95	-0.847
21-2-01	2,000.00	0	0	0	96.928	Not Full	No	1,903.07	-0.852
21-2-02	2,000.00	0	0	0	90.788	Not Full	No	1,909.21	-0.852
20-1-07	2,000.00	0	0	0	113.246	Not Full	No	1,886.75	-0.854
20-2-29	2,000.00	8.3	8.3	0	149.392	Not Full	No	1,850.61	-0.858
20-2-28	2,000.00	0	0	0	147.452	Not Full	No	1,852.55	-0.858
18-3-33	2,000.00	0	0	0	149.393	Not Full	No	1,850.61	-0.867
28-1-09	2,000.00	0	0	0	214.028	Not Full	No	1,785.97	-0.872
20-2-08	2,000.00	0	0	0	137.314	Not Full	No	1,862.69	-0.886
20-2-07	2,000.00	0	0	0	135.913	Not Full	No	1,864.09	-0.887
20-2-06	2,000.00	0	0	0	134.513	Not Full	No	1,865.49	-0.887
20-2-09	2,000.00	0	0	0	138.112	Not Full	No	1,861.89	-0.888
20-2-10	2,000.00	0	0	0	139.507	Not Full	No	1,860.49	-0.893
28-1-13	2,000.00	0	0	0	239.402	Not Full	No	1,760.60	-0.898
21-3-02	2,000.00	0	0	0	69.147	Not Full	No	1,930.85	-0.903
21-3-05	2,000.00	8.3	8.3	0	104.229	Not Full	No	1,895.77	-0.921
21-4-03	2,000.00	0	0	0	144.674	Not Full	No	1,855.33	-0.926
19-1-16	2,000.00	0	0	0	159.297	Not Full	No	1,840.70	-0.953
21-3-10	2,000.00	0	0	0	107.543	Not Full	No	1,892.46	-0.957
21-3-03	2,000.00	0	0	0	75.254	Not Full	No	1,924.75	-0.996
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	99.998	Not Full	No	1,900.00	-1.052
21-1-02	2,000.00	0	0	0	49.461	Not Full	No	1,950.54	-1.139
21-1-09	2,000.00	0	0	0	56.221	Not Full	No	1,943.78	-1.159
21-1-08	2,000.00	0	0	0	54.391	Not Full	No	1,945.61	-1.159
21-1-10	2,000.00	14	14	0	58.821	Not Full	No	1,941.18	-1.159
21-2-08	2,000.00	0	0	0	60.786	Not Full	No	1,939.21	-1.164
21-2-07	2,000.00	0	0	0	59.485	Not Full	No	1,940.52	-1.165
21-2-11	2,000.00	0	0	0	65.697	Not Full	No	1,934.30	-1.173
21-3-01	2,000.00	0	0	0	67.806	Not Full	No	1,932.19	-1.174
21-3-28	2,000.00	0	0	0	108.137	Not Full	Yes	1,891.86	-1.303
21-3-07	2,000.00	10.1	10.1	0	111.183	Not Full	No	1,888.82	-1.327
21-3-08	2,000.00	0	0	0	108.823	Not Full	No	1,891.18	-1.327
21-3-13	2,000.00	0	0	0	110.743	Not Full	No	1,889.26	-1.327

TABLE E-12

City of Sequim 2018 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-3-09	2,000.00	0	0	0	108.643	Not Full	No	1,891.36	-1.327
21-1-06	2,000.00	0	0	0	49.271	Not Full	No	1,950.73	-1.329
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
WITH Carlsborg Flows											
1158	20-1-06	21-2-01	8	57.456	0.01	2099.499	13.401	1	3.55	0.667	591.598
1160	20-1-13	20-1-07	15	117.439	0	2089.299	3.793	1	1.1	1.25	1896.836
1161	20-1-19	20-1-13	15	165.416	0	2089.299	3.793	1	1.31	1.25	1598.262
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1141	19-4-25	19-4-24	8	56.351	0	352.1	2.247	1	1.09	0.667	323.97
1263	21-4-20	21-4-19	8	323.279	0	136.1	0.869	1	3.18	0.667	42.773
1193	20-3-01	20-2-42	12	87.82	0	650.8	2.437	0.71	0.85	0.709	765.137
1091	19-2-44	19-2-46	8	579.954	0	84.6	0.722	0.7	0.84	0.467	100.985
1138	19-4-22	20-3-10	8	512.576	0.02	480.8	4.632	0.63	0.72	0.419	666.508
1226	21-2-06	21-1-01	18	790.804	0	2,099.50	4.023	0.63	0.72	0.938	2,935.75
1217	21-1-01	21-1-02	18	769.455	0	2,099.50	4.067	0.62	0.71	0.93	2,976.20
1197	20-3-06	20-3-04	10	300.724	0.01	572.1	3.702	0.6	0.68	0.503	843.327
1055	19-1-30	19-1-29	8	678.565	0.01	313.9	3.245	0.59	0.66	0.395	476.042
1225	21-2-03	21-2-22	18	109	0.01	2,099.50	4.306	0.59	0.66	0.886	3,201.67
1188	20-2-40	20-2-39	12	382.757	0	669.3	3.126	0.59	0.65	0.585	1,036.62
1095	19-2-54	19-2-59	8	122.685	0.01	313.9	3.337	0.58	0.64	0.386	493.406
1069	19-2-15	19-2-16	8	465.861	0.01	313.9	3.371	0.57	0.63	0.383	500.103
1070	19-2-16	19-2-54	8	329.97	0.01	313.9	3.371	0.57	0.63	0.383	500.039
1071	19-2-17	19-1-30	8	787.887	0.01	313.9	3.379	0.57	0.63	0.382	501.469
1097	19-2-59	19-2-17	8	213.617	0.01	313.9	3.43	0.57	0.61	0.377	511.507
1139	19-4-23	19-4-22	8	659	0.01	352.1	3.959	0.55	0.59	0.369	595.401
1140	19-4-24	19-4-23	8	622.555	0.01	352.1	3.966	0.55	0.59	0.368	596.872
1173	20-2-05	20-2-04	15	311.909	0.01	1,180.70	3.804	0.55	0.59	0.687	2,015.97
1181	20-2-25	20-2-21	15	150.591	0.01	1,145.50	3.728	0.55	0.58	0.682	1,981.99
1142	19-4-26	19-4-25	8	412.69	0.01	352.1	4.034	0.55	0.58	0.363	610.42
1397	30-2-25	19-3-27	8	201.839	0	194.8	2.256	0.54	0.57	0.36	342.359
1054	19-1-29	19-1-28	8	438.473	0.01	320.1	3.709	0.54	0.57	0.36	563.01
1385	30-2-12	30-2-11	8	253.12	0	194.8	2.261	0.54	0.57	0.359	343.507
1384	30-2-11	30-2-25	8	317.001	0	194.8	2.265	0.54	0.57	0.359	344.2
1053	19-1-28	19-1-27	8	259.296	0.01	320.1	3.769	0.53	0.56	0.355	575.095
1179	20-2-17	20-2-46	15	330.36	0.01	1,153.10	3.881	0.53	0.55	0.664	2,085.37
1144	19-4-32	19-4-27	8	244.428	0.01	352.1	4.189	0.53	0.55	0.352	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	352.1	4.205	0.53	0.55	0.351	644.544
1171	20-1-51	20-1-19	15	399.329	0.01	1,703.50	5.803	0.53	0.54	0.657	3,130.23
1172	20-2-04	20-1-49	15	390.979	0.01	1,703.50	5.845	0.52	0.54	0.654	3,160.06
1145	19-4-33	19-4-32	8	193.37	0.01	352.1	4.253	0.52	0.54	0.348	654.371

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1192	20-2-46	20-2-05	15	322.684	0.01	1,153.10	3.968	0.52	0.54	0.652	2,146.94
1363	29-3-16	29-3-17	8	401.862	0.01	259.5	3.149	0.52	0.54	0.347	485.261
1153	19-4-47	19-4-46	8	126.27	0	128.7	1.568	0.52	0.53	0.346	241.969
1152	19-4-46	19-4-42	8	125.896	0	128.7	1.57	0.52	0.53	0.346	242.328
1185	20-2-34	20-2-32	15	328.102	0.01	1,120.30	4.029	0.5	0.51	0.63	2,212.20
1184	20-2-32	20-2-29	15	331.328	0.01	1,129.60	4.176	0.49	0.49	0.616	2,314.37
1186	20-2-38	20-2-34	15	438.816	0.01	1,083.10	4.087	0.49	0.48	0.606	2,280.30
1189	20-2-41	20-2-40	12	217.516	0.01	669.3	3.964	0.48	0.47	0.484	1,417.43
969	17-2-12	17-2-13	12	303.616	0	434.3	2.573	0.48	0.47	0.483	920.151
1146	19-4-34	19-4-33	8	222.441	0.02	316.8	4.227	0.48	0.47	0.322	672.312
1187	20-2-39	20-2-43	12	427.648	0.01	669.3	3.989	0.48	0.47	0.481	1,429.61
1169	20-1-49	20-1-50	15	273.274	0.02	1,703.50	6.689	0.47	0.45	0.588	3,783.93
1190	20-2-42	20-2-41	12	92.525	0.01	669.3	4.115	0.47	0.45	0.47	1,490.86
1170	20-1-50	20-1-51	15	271.108	0.02	1,703.50	6.704	0.47	0.45	0.587	3,794.91
1166	20-1-34	20-1-30	12	354.986	0	355.7	2.218	0.47	0.44	0.465	807.304
1191	20-2-43	20-2-38	12	369.052	0.01	669.3	4.213	0.46	0.44	0.461	1,538.93
1163	20-1-25	20-1-20	12	169.112	0	375.9	2.382	0.46	0.43	0.459	871.805
1147	19-4-40	19-4-34	8	331.621	0.02	316.8	4.528	0.46	0.43	0.305	737.535
1364	29-3-17	29-3-18	10	402.175	0	259.5	2.426	0.45	0.42	0.375	621.901
1230	21-2-22	21-2-06	18	1,831.00	0.01	2,099.50	6.106	0.45	0.41	0.672	5,086.60
1165	20-1-30	20-1-26	12	354.769	0	365.8	2.407	0.45	0.41	0.446	892.782
1223	21-2-01	21-2-02	18	518.06	0.01	2,099.50	6.159	0.45	0.41	0.667	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	2,099.50	6.163	0.45	0.41	0.667	5,150.85
1159	20-1-07	20-1-06	18	1,319.26	0.01	2,089.30	6.152	0.44	0.41	0.665	5,147.03
1365	29-3-18	29-1-21	10	398.124	0	259.5	2.49	0.44	0.4	0.368	644.294
1317	28-1-20	28-1-19	8	64.719	0	136.1	2.041	0.44	0.4	0.294	337.98
1349	29-1-17	29-1-16	10	418.361	0	259.5	2.497	0.44	0.4	0.367	646.739
1149	G&OADD2	19-4-40	8	356.5	0.02	314.2	4.725	0.44	0.4	0.294	783.474
1052	19-1-27	19-1-26	8	403.413	0.02	320.1	4.836	0.44	0.4	0.293	803.166
1292	27-2-05	27-2-04	8	212.723	0	136.1	2.066	0.44	0.4	0.292	343.749
1314	28-1-31	28-1-30	8	394.454	0	136.1	2.073	0.44	0.39	0.291	345.255
1162	20-1-20	20-1-19	12	160.958	0	385.8	2.612	0.44	0.39	0.436	978.905
1353	29-1-21	29-1-20	10	402.791	0	259.5	2.532	0.44	0.39	0.363	659.121
1242	21-3-12	21-3-17	12	222.893	0	270.4	1.834	0.44	0.39	0.436	687.646
968	17-2-11	17-2-12	12	104.09	0.01	434.3	2.959	0.43	0.39	0.434	1,111.22
1067	19-2-12	19-2-14	8	206.905	0.01	193.2	2.961	0.43	0.39	0.289	494.369
1277	24-1-26	24-1-06	8	289.66	0.01	193.2	2.973	0.43	0.39	0.289	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	193.2	2.976	0.43	0.39	0.288	497.667

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1267	24-1-02	24-1-03	8	348.953	0.01	193.2	2.979	0.43	0.39	0.288	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	193.2	2.979	0.43	0.39	0.288	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	193.2	2.982	0.43	0.39	0.288	498.946
963	17-2-06	17-2-07	12	101.697	0.01	434.3	2.984	0.43	0.39	0.431	1,124.22
1096	19-2-56	19-2-10	8	449.312	0.01	193.2	2.987	0.43	0.39	0.288	500.1
1065	19-2-10	19-2-11	8	135.736	0.01	193.2	2.989	0.43	0.39	0.287	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	193.2	2.99	0.43	0.39	0.287	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	193.2	2.99	0.43	0.39	0.287	500.842
1168	20-1-39	20-1-38	12	255.284	0	345.6	2.38	0.43	0.39	0.431	897.542
1274	24-1-14	24-1-01	8	220.548	0.01	193.2	2.995	0.43	0.39	0.287	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	193.2	2.996	0.43	0.39	0.287	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	193.2	2.998	0.43	0.38	0.287	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	193.2	2.998	0.43	0.38	0.287	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	193.2	2.998	0.43	0.38	0.287	502.741
1270	24-1-06	24-1-07	8	97.95	0.01	193.2	3.002	0.43	0.38	0.286	503.589
1265	21-4-24	21-4-21	8	126.481	0	136.1	2.117	0.43	0.38	0.286	355.323
964	17-2-07	17-2-08	12	334.55	0.01	434.3	3.007	0.43	0.38	0.429	1,136.18
1180	20-2-21	20-2-17	15	187.297	0.01	1,145.50	5.086	0.43	0.38	0.535	3,004.01
1312	28-1-12	28-1-11	8	281.382	0	129.4	2.023	0.43	0.38	0.285	340.007
962	17-2-05	17-2-06	12	232.966	0.01	434.3	3.045	0.43	0.38	0.425	1,155.49
1155	19-4-49	19-4-48	8	250.077	0	128.7	2.037	0.42	0.37	0.283	343.876
1196	20-3-04	20-3-01	12	110.258	0.01	650.8	4.581	0.42	0.37	0.424	1,740.95
1380	30-1-41	30-1-19	8	354.251	0	128.7	2.038	0.42	0.37	0.282	344.293
1254	21-4-05	21-4-02	8	158.26	0	136.1	2.156	0.42	0.37	0.282	364.236
967	17-2-10	17-2-11	12	218.347	0.01	434.3	3.089	0.42	0.37	0.42	1,178.66
971	17-2-14	PWPS	12	184.844	0.01	434.3	3.113	0.42	0.37	0.418	1,191.02
1164	20-1-26	20-1-25	12	169.233	0	375.9	2.695	0.42	0.37	0.418	1,031.17
1302	27-2-21	27-2-20	8	161.176	0	123.4	1.997	0.42	0.36	0.278	339.984
965	17-2-08	17-2-09	12	306.365	0.01	434.3	3.126	0.42	0.36	0.416	1,197.84
1299	27-2-18	27-2-10	8	188.538	0	123.4	2.01	0.42	0.36	0.276	342.981
1301	27-2-20	27-2-19	8	289.947	0	123.4	2.014	0.41	0.36	0.276	343.961
1303	27-2-22	27-2-21	8	167.014	0	123.4	2.016	0.41	0.36	0.276	344.429
1304	27-2-23	27-2-22	8	149.448	0	123.4	2.017	0.41	0.36	0.276	344.564
994	17-3-04	17-2-05	12	221.097	0.01	434.3	3.187	0.41	0.35	0.41	1,229.42
1204	20-4-07	20-4-06	12	397.849	0	336.3	2.529	0.4	0.34	0.403	984.482
1202	20-3-15	20-3-06	12	203.572	0.01	498.4	3.799	0.4	0.34	0.399	1,486.56
1200	20-3-10	20-3-08	12	348.384	0.01	480.8	3.718	0.4	0.33	0.395	1,462.82
1203	20-4-06	20-1-39	12	392	0	336.3	2.603	0.39	0.33	0.394	1,024.33

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1098	19-2-62	19-2-39	8	362.45	0	84.6	1.477	0.39	0.33	0.262	258.656
1167	20-1-38	20-1-34	12	191.441	0.01	345.6	2.761	0.39	0.31	0.385	1,099.32
1110	19-3-26	19-4-44	8	285.064	0.01	194.8	3.508	0.39	0.31	0.256	621.212
1216	20-4-42	20-4-07	12	329.641	0.01	336.3	2.708	0.38	0.31	0.383	1,081.55
1199	20-3-08	20-3-15	12	166.018	0.01	498.4	4.092	0.38	0.3	0.377	1,646.13
1154	19-4-48	19-4-47	8	241.949	0.01	128.7	2.39	0.38	0.3	0.251	428.176
961	17-2-04	17-3-01	12	345.616	0.01	424.1	3.512	0.38	0.3	0.375	1,417.12
1362	29-3-15	29-3-16	8	237.428	0.03	259.5	4.882	0.37	0.3	0.248	878.756
1305	28-1-01	21-4-04	8	383.288	0.01	129.4	2.438	0.37	0.3	0.248	439.184
998	18-1-04	18-1-03	12	300.784	0	307.6	2.594	0.37	0.29	0.37	1,054.06
1359	29-3-12	29-3-13	8	328.996	0.03	259.5	4.975	0.37	0.29	0.245	901.92
991	17-3-01	17-3-02	12	318.869	0.01	424.1	3.616	0.37	0.29	0.367	1,475.36
1258	21-4-09	21-4-08	8	50.49	0.01	136.1	2.653	0.36	0.28	0.242	484.022
1099	19-2-71	19-2-62	8	185.256	0	84.6	1.663	0.36	0.28	0.24	304.275
1001	18-1-07	18-1-06	12	453.25	0.01	307.6	2.749	0.35	0.27	0.354	1,142.13
1157	19-4-51	G&OADD2	8	411.715	0.02	194.8	3.94	0.35	0.27	0.235	729.048
1289	27-2-02	27-2-01	8	113.774	0.01	136.1	2.754	0.35	0.27	0.235	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	136.1	2.756	0.35	0.27	0.235	510.101
1264	21-4-21	21-4-20	8	149.173	0.01	136.1	2.791	0.35	0.26	0.233	519.235
1259	21-4-10	21-4-11	8	31.731	0.01	136.1	2.828	0.35	0.26	0.231	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	136.1	2.833	0.35	0.26	0.23	530.03
999	18-1-05	18-1-04	12	206.235	0.01	307.6	2.889	0.34	0.25	0.342	1,223.01
1024	18-4-25	18-4-24	8	397.125	0.01	116.5	2.498	0.34	0.25	0.226	472.646
1022	18-4-23	17-2-01	8	384.354	0.01	116.5	2.528	0.34	0.24	0.224	480.434
1290	27-2-03	27-2-02	8	149.302	0.01	136.1	2.959	0.34	0.24	0.223	562.945
1089	19-2-39	19-2-40	8	218.916	0	84.6	1.849	0.33	0.24	0.222	352.528
1023	18-4-24	18-4-23	8	399.081	0.01	116.5	2.552	0.33	0.24	0.222	486.949
970	17-2-13	17-2-14	12	53.433	0.01	434.3	4.262	0.33	0.24	0.331	1,835.12
1183	20-2-29	20-2-28	15	69.913	0.03	1,137.90	7.183	0.33	0.24	0.412	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	1,137.90	7.185	0.33	0.24	0.412	4,845.04
1111	19-3-27	19-3-26	8	266.061	0.02	194.8	4.338	0.33	0.23	0.219	832.801
2	17-4-01	20-2-04	12	1,022.00	0.02	508	5.089	0.33	0.23	0.326	2,209.01
960	17-2-03	17-2-04	12	237.625	0.01	424.1	4.275	0.33	0.23	0.325	1,860.59
997	18-1-03	18-1-21	12	510.506	0.01	307.6	3.127	0.32	0.23	0.323	1,364.97
1386	30-2-13	30-2-12	10	215.752	0	140.103	2.053	0.32	0.23	0.269	622.502
992	17-3-02	17-3-03	12	398.981	0.02	434.3	4.424	0.32	0.23	0.322	1,933.12
995	18-1-01	17-2-01	12	406.186	0.01	307.6	3.148	0.32	0.22	0.321	1,377.91
966	17-2-09	17-2-10	12	472.423	0.02	434.3	4.455	0.32	0.22	0.321	1,951.66

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1051	19-1-26	19-1-22	12	329.458	0.01	338.4	3.486	0.32	0.22	0.32	1,529.97
959	17-2-02	17-2-03	12	400.873	0.01	424.1	4.387	0.32	0.22	0.319	1,928.56
958	17-2-01	17-2-02	12	399.079	0.02	424.1	4.422	0.32	0.22	0.317	1,949.48
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737
1008	18-1-21	18-1-02	12	145.768	0.01	307.6	3.273	0.31	0.21	0.312	1,454.73
1021	18-4-05	18-4-26	8	297.552	0.01	116.5	2.804	0.31	0.21	0.207	555.058
1300	27-2-19	27-2-18	8	77.095	0.01	123.4	2.992	0.31	0.21	0.206	594.046
1206	20-4-13	20-4-12	12	193.1	0.01	336.3	3.645	0.31	0.21	0.308	1,631.72
1047	19-1-22	19-1-16	12	505.438	0.01	382.5	4.152	0.31	0.21	0.308	1,859.70
1257	21-4-08	21-4-07	8	139.743	0.02	136.1	3.341	0.31	0.2	0.204	666.628
1000	18-1-06	18-1-05	12	395.427	0.01	307.6	3.36	0.31	0.2	0.306	1,508.42
1355	29-2-43	30-1-20	8	362.02	0.01	128.7	3.166	0.31	0.2	0.204	632.015
1025	18-4-26	18-4-25	8	396.401	0.01	116.5	2.868	0.31	0.2	0.204	572.925
1379	30-1-20	30-1-41	8	66.423	0.01	128.7	3.169	0.31	0.2	0.204	632.995
1205	20-4-12	20-4-42	12	178.123	0.01	336.3	3.684	0.31	0.2	0.306	1,655.92
993	17-3-03	17-3-04	12	281.199	0.02	434.3	4.79	0.3	0.2	0.304	2,159.23
1026	18-4-27	18-4-05	8	370.385	0.01	116.5	2.915	0.3	0.2	0.202	585.931
1354	29-1-28	20-4-18	10	434.841	0.02	259.5	4.21	0.3	0.2	0.25	1,328.98
1150	19-4-44	19-4-51	8	213.037	0.04	194.8	4.994	0.3	0.19	0.198	1,013.51
1316	28-1-19	21-4-24	8	358.022	0.02	136.1	3.532	0.3	0.19	0.196	720.218
1352	29-1-20	29-1-19	10	419.219	0.02	259.5	4.36	0.29	0.19	0.243	1,395.69
1328	28-3-12	28-4-02	8	320.055	0.01	91	2.43	0.29	0.18	0.192	501.316
996	18-1-02	18-1-01	12	256.223	0.01	307.6	3.668	0.29	0.18	0.288	1,705.73
1356	29-3-09	29-3-10	8	251.525	0.07	259.5	6.997	0.29	0.18	0.191	1,448.66
1358	29-3-11	29-3-12	8	279.115	0.08	259.5	7.145	0.28	0.17	0.188	1,491.62
1005	18-1-11	18-1-18	8	149.044	0	63.2	1.744	0.28	0.17	0.188	364.602
1377	30-1-18	19-4-45	8	350.408	0.02	119.4	3.353	0.28	0.17	0.186	705.631
1232	21-3-02	21-3-01	15	203.266	0.01	395	3.163	0.28	0.17	0.347	2,342.65
1350	29-1-18	29-1-17	10	201.851	0.03	259.5	4.703	0.28	0.17	0.231	1,551.81
1041	19-1-16	20-2-38	15	446.292	0.01	413.8	3.358	0.28	0.17	0.344	2,499.76
1361	29-3-14	29-3-15	8	241.785	0.09	259.5	7.456	0.27	0.16	0.183	1,583.44
1148	19-4-42	19-4-22	10	349.211	0.01	128.7	2.399	0.27	0.16	0.226	800.183
1357	29-3-10	29-3-11	8	398.375	0.09	259.5	7.702	0.27	0.16	0.178	1,657.27
1017	18-4-01	18-1-07	12	39.831	0.02	307.6	4.063	0.27	0.16	0.267	1,967.82
1251	21-4-02	G&OADD1	12	377.409	0.01	265.5	3.514	0.27	0.16	0.267	1,703.41
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1235	21-3-05	21-3-04	15	509.884	0.01	395	3.414	0.26	0.15	0.329	2,606.80
1020	18-4-04	18-4-03	12	384.556	0.01	224.5	3.037	0.26	0.15	0.263	1,485.25
1019	18-4-03	18-4-02	12	506.848	0.01	224.5	3.074	0.26	0.15	0.26	1,510.74
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663
1011	18-3-32	18-3-33	12	211.336	0	83.1	1.142	0.26	0.15	0.26	562.37
1392	30-2-18	30-2-17	10	372.265	0.01	111.5	2.232	0.26	0.15	0.215	766.539
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1391	30-2-17	30-2-16	10	64.408	0.01	111.5	2.254	0.26	0.14	0.213	777.014
1291	27-2-04	27-2-03	8	178.715	0.03	136.1	4.325	0.26	0.14	0.17	956.58
1046	19-1-21	19-1-20	8	60.527	0	31.3	0.998	0.25	0.14	0.169	221.037
1253	21-4-04	21-4-03	12	799.3	0	129.4	1.835	0.25	0.14	0.254	914.436
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1151	19-4-45	G&OADD2	8	185.247	0.02	119.4	3.821	0.25	0.14	0.169	847.557
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
1133	19-4-11	19-4-09	8	444.228	0.01	73.7	2.377	0.25	0.14	0.168	528.762
1376	30-1-17	30-1-18	8	382.118	0.03	119.4	3.853	0.25	0.14	0.168	857.437
1374	30-1-15	30-1-16	8	321.214	0.03	119.4	3.889	0.25	0.14	0.167	868.858
1360	29-3-13	29-3-14	8	236.006	0.12	259.5	8.458	0.25	0.14	0.167	1,889.73
1209	20-4-17	20-4-16	10	315.244	0.06	336.3	7.034	0.25	0.14	0.208	2,458.52
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
1114	19-3-31	19-3-30	8	104.645	0	45.8	1.501	0.25	0.14	0.166	336.21
1131	19-4-08	19-4-07	8	699.032	0.01	73.7	2.426	0.25	0.14	0.166	544.176
1229	21-2-21	21-2-08	8	2,869.51	0	23.2	0.765	0.25	0.14	0.166	171.68
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
1115	19-3-32	19-3-31	8	403.213	0	45.8	1.518	0.25	0.13	0.165	341.484
1218	21-1-02	WRFHEADWORKS	18	50	0.11	2,099.50	13.759	0.25	0.13	0.371	15,678.35
1112	19-3-28	30-2-13	8	269.428	0	45.8	1.522	0.25	0.13	0.165	342.696
1284	24-4-26	24-4-27	8	230.476	0	45.8	1.525	0.25	0.13	0.164	343.574
1285	24-4-27	19-3-32	8	415.524	0	45.8	1.525	0.25	0.13	0.164	343.712
1283	24-4-25	24-4-26	8	399.92	0	45.8	1.526	0.25	0.13	0.164	343.964
1282	24-4-24	24-4-25	8	297.246	0	45.8	1.526	0.25	0.13	0.164	344.076
1398	30-2-32	30-2-14	10	143.05	0.01	111.5	2.384	0.25	0.13	0.205	840.701
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1260	21-4-11	21-4-09	8	350.326	0.04	136.1	4.595	0.24	0.13	0.163	1,041.49
1287	24-4-39	24-4-34	8	662.433	0	45.8	1.55	0.24	0.13	0.162	351.648

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1090	19-2-40	19-2-44	8	389.205	0.01	84.6	2.87	0.24	0.13	0.162	651.712
1130	19-4-07	19-4-06	8	605.46	0.01	73.7	2.511	0.24	0.13	0.162	571.195
1296	27-2-10	27-2-11	8	230.854	0.03	123.4	4.212	0.24	0.13	0.161	959.031
1004	18-1-10	18-1-11	8	343.962	0.01	63.2	2.196	0.24	0.13	0.159	503.61
1297	27-2-11	27-2-12	8	180.846	0.03	123.4	4.297	0.24	0.13	0.159	986.377
1132	19-4-09	19-4-08	8	681.983	0.01	73.7	2.589	0.24	0.12	0.158	596.292
1338	28-4-02	28-1-14	8	424.758	0.02	91	3.198	0.24	0.12	0.158	736.912
1262	21-4-19	21-4-18	8	208.771	0.04	136.1	4.786	0.24	0.12	0.158	1,103.06
1348	29-1-16	29-1-07	10	187.628	0.05	259.5	5.879	0.24	0.12	0.197	2,123.14
1156	19-4-50	19-4-49	8	393.949	0.04	128.7	4.559	0.24	0.12	0.157	1,054.02
1013	18-3-35	18-3-36	12	292.402	0	83.1	1.32	0.23	0.12	0.234	689.014
1240	21-3-10	21-3-05	15	274.714	0.01	386.7	3.934	0.23	0.12	0.293	3,210.21
1250	G&OADD1	21-3-12	12	389.309	0.02	270.4	4.301	0.23	0.12	0.234	2,246.06
1241	21-3-11	21-3-31	12	144.196	0.02	275.9	4.395	0.23	0.12	0.234	2,297.16
1311	28-1-11	28-1-10	12	243.143	0.01	129.4	2.063	0.23	0.12	0.234	1,078.42
1009	18-3-01	18-4-04	12	36.125	0.01	224.5	3.6	0.23	0.12	0.233	1,886.27
1113	19-3-30	19-3-28	8	590.482	0.01	45.8	1.684	0.23	0.12	0.153	395.288
1003	18-1-09	18-1-10	8	367.771	0.01	63.2	2.324	0.23	0.12	0.153	545.445
1210	20-4-18	20-4-17	10	22.66	0.05	259.5	6.163	0.23	0.11	0.19	2,268.95
1256	21-4-07	21-4-06	8	60.782	0.05	136.1	5.063	0.23	0.11	0.152	1,193.95
1129	19-4-06	20-3-07	8	70.467	0.01	73.7	2.745	0.23	0.11	0.152	647.808
1221	21-1-09	21-1-08	18	282.589	0.01	432.2	3.183	0.23	0.11	0.341	3,804.10
1220	21-1-08	21-1-06	18	761.813	0.01	432.2	3.187	0.23	0.11	0.341	3,810.51
1222	21-1-10	21-1-09	18	400.197	0.01	432.2	3.187	0.23	0.11	0.341	3,810.25
1396	30-2-23	30-2-21	10	196.778	0.01	111.5	2.671	0.23	0.11	0.189	986.537
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	123.4	4.622	0.23	0.11	0.151	1,092.97
1016	18-3-38	18-3-35	12	253.099	0	83.1	1.398	0.23	0.11	0.225	747.408
1318	28-1-29	28-1-20	8	363.951	0.05	136.1	5.187	0.22	0.11	0.149	1,235.61
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	418.2	3.157	0.22	0.11	0.336	3,811.19
1227	21-2-07	21-1-10	18	102.071	0.01	418.2	3.168	0.22	0.11	0.335	3,829.92
1027	19-1-01	18-4-27	8	420.515	0.01	53.9	2.074	0.22	0.11	0.148	496.115
1261	21-4-18	21-4-10	8	249.725	0.05	136.1	5.249	0.22	0.11	0.148	1,256.39
1014	18-3-36	18-3-37	12	346.739	0	83.1	1.428	0.22	0.11	0.222	770.132
1002	18-1-08	18-1-09	8	365.984	0.01	63.2	2.451	0.22	0.11	0.148	588.071
1248	21-3-31	21-3-10	12	133.4	0.03	275.9	4.79	0.22	0.11	0.22	2,593.32
1306	28-1-02	28-1-01	8	247.684	0.05	129.4	5.056	0.22	0.11	0.147	1,216.75
1228	21-2-11	21-2-08	18	760.617	0.01	395	3.099	0.22	0.1	0.327	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	395	3.104	0.22	0.1	0.326	3,810.33

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1403	30-3-05	30-3-04	8	115.798	0.01	38.3	1.529	0.22	0.1	0.145	371.352
1346	29-1-06	29-1-05	10	254.333	0.07	259.5	6.665	0.22	0.1	0.18	2,534.09
1390	30-2-16	30-2-15	10	360.927	0.01	111.5	2.875	0.22	0.1	0.18	1,094.81
1288	27-2-01	28-1-31	8	255.578	0.06	136.1	5.494	0.22	0.1	0.143	1,340.06
1036	19-1-11	19-1-10	10	263.273	0	50.8	1.328	0.21	0.1	0.178	508.411
1286	24-4-34	24-4-24	8	208.15	0.01	45.8	1.871	0.21	0.1	0.142	458.545
1370	30-1-07	30-1-06	8	418.833	0.01	38.3	1.569	0.21	0.1	0.142	385.06
1244	21-3-17	21-3-11	12	186.646	0.03	270.4	4.932	0.21	0.1	0.213	2,724.62
1018	18-4-02	18-4-01	12	189.934	0.02	224.5	4.102	0.21	0.1	0.213	2,267.84
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
1198	20-3-07	20-3-06	8	454.124	0.02	73.7	3.092	0.21	0.1	0.14	766.399
1010	18-3-10	18-3-01	12	398.208	0.02	224.5	4.216	0.21	0.1	0.208	2,357.59
1006	18-1-18	18-1-19	10	107.771	0.01	63.2	1.711	0.21	0.1	0.174	664.837
973	17-2-16	17-2-17	10	217.198	0.01	63.2	1.749	0.21	0.09	0.171	685.544
1367	30-1-04	30-1-05	8	389.779	0.01	36.5	1.587	0.2	0.09	0.136	399.153
1382	30-2-01	30-1-07	8	267.898	0.01	38.3	1.669	0.2	0.09	0.136	420.257
1122	19-3-46	19-3-44	8	148.328	0	31.1	1.362	0.2	0.09	0.136	343.549
1123	19-3-47	19-3-46	8	301.624	0	31.1	1.363	0.2	0.09	0.135	343.858
1389	30-2-15	30-2-32	10	284.705	0.02	111.5	3.127	0.2	0.09	0.169	1,232.68
1233	21-3-03	21-3-02	15	273.312	0.02	395	4.932	0.2	0.09	0.254	4,378.42
1378	30-1-19	19-4-50	8	139.234	0.07	128.7	5.664	0.2	0.09	0.135	1,431.63
1329	28-3-14	28-3-12	8	340.805	0.04	91	4.031	0.2	0.09	0.134	1,021.69
1394	30-2-20	30-2-19	10	277.422	0.02	111.5	3.222	0.2	0.09	0.166	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	111.5	3.223	0.2	0.09	0.166	1,286.47
1381	30-1-45	30-1-03	8	116.402	0.01	36.5	1.65	0.2	0.09	0.133	421.703
1343	29-1-02	29-1-28	10	420.998	0.09	259.5	7.518	0.2	0.09	0.166	3,004.81
1275	24-1-15	24-1-14	12	431.609	0.02	193.2	3.903	0.2	0.09	0.198	2,250.02
1207	20-4-15	20-4-13	12	195.888	0.06	336.3	6.796	0.2	0.09	0.198	3,918.42
1373	30-1-14	30-1-15	8	262.922	0.07	119.4	5.451	0.2	0.09	0.132	1,398.95
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1308	28-1-04	28-1-03	8	163.086	0.08	129.4	5.96	0.2	0.08	0.131	1,535.33
1092	19-2-46	19-2-53	10	355.676	0.01	84.6	2.495	0.2	0.08	0.164	1,004.28
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
975	17-2-18	17-2-19	10	144.435	0.01	63.2	1.867	0.2	0.08	0.163	751.922
1015	18-3-37	18-4-01	12	274.98	0	83.1	1.707	0.2	0.08	0.196	990.753
1037	19-1-12	19-1-11	8	136.141	0.01	50.8	2.353	0.2	0.08	0.13	607.673
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
1063	19-1-38	19-1-37	8	334.348	0.01	31.3	1.455	0.2	0.08	0.13	376.183

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1395	30-2-21	30-2-20	10	217.583	0.02	111.5	3.411	0.19	0.08	0.159	1,394.12
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1310	28-1-10	28-1-09	12	230.353	0.01	129.4	2.811	0.19	0.08	0.188	1,670.30
1347	29-1-07	29-1-06	10	262.001	0.12	259.5	8.124	0.19	0.08	0.157	3,353.04
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
980	17-2-23	17-2-24	10	299.088	0.01	63.2	2.008	0.19	0.08	0.155	834.02
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
987	17-2-30	17-2-33	10	267.515	0.01	63.2	2.021	0.19	0.08	0.154	841.806
981	17-2-24	17-2-25	10	296.445	0.01	63.2	2.028	0.19	0.08	0.154	845.522
982	17-2-25	17-2-26	10	346.589	0.01	63.2	2.028	0.19	0.08	0.154	845.73
986	17-2-29	17-2-30	10	242.085	0.01	63.2	2.035	0.19	0.07	0.154	850.2
979	17-2-22	17-2-23	10	296.781	0.01	63.2	2.04	0.18	0.07	0.154	852.761
1315	28-1-14	28-1-13	8	328.472	0.05	91	4.635	0.18	0.07	0.122	1,245.47
983	17-2-26	17-2-27	10	268.744	0.01	63.2	2.065	0.18	0.07	0.152	867.423
1045	19-1-20	19-1-38	8	252.835	0.01	31.3	1.606	0.18	0.07	0.121	432.594
1375	30-1-16	30-1-17	8	373.616	0.09	119.4	6.149	0.18	0.07	0.121	1,659.65
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1276	24-1-16	24-1-15	12	354.375	0.03	193.2	4.444	0.18	0.07	0.181	2,704.08
1031	19-1-05	19-1-04	10	303.991	0.01	50.8	1.69	0.18	0.07	0.15	715.317
1030	19-1-04	19-1-03	10	300.714	0.01	50.8	1.696	0.18	0.07	0.15	719.204
978	17-2-21	17-2-22	10	242.47	0.01	63.2	2.194	0.18	0.07	0.146	945.568
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1369	30-1-06	30-1-08	8	302.642	0.05	74.8	4.132	0.17	0.07	0.115	1,148.53
1388	30-2-14	30-2-13	10	491.303	0.03	111.5	3.946	0.17	0.07	0.144	1,714.76
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1033	19-1-07	19-1-06	10	91.805	0.01	50.8	1.824	0.17	0.06	0.143	797.098
1344	29-1-03	29-1-02	10	553.688	0.18	259.5	9.478	0.17	0.06	0.141	4,173.42
1135	19-4-13	19-4-12	8	327.186	0.01	31.1	1.782	0.17	0.06	0.112	503.061
976	17-2-19	17-2-20	10	293.842	0.01	63.2	2.318	0.17	0.06	0.14	1,022.48
1029	19-1-03	19-1-02	10	300.714	0.01	50.8	1.867	0.17	0.06	0.14	823.951

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1351	29-1-19	29-1-18	10	127.562	0.19	259.5	9.643	0.17	0.06	0.139	4,276.76
984	17-2-27	17-2-28	10	226.538	0.01	63.2	2.359	0.17	0.06	0.139	1,048.14
1340	28-4-04	28-4-03	8	400.195	0.08	91	5.311	0.17	0.06	0.111	1,511.06
989	17-2-32	PWPS	10	30.835	0.01	63.2	2.363	0.17	0.06	0.139	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	63.2	2.367	0.17	0.06	0.138	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	63.2	2.377	0.17	0.06	0.138	1,059.29
1094	19-2-53	18-3-10	12	1,094.58	0.01	84.6	2.213	0.17	0.06	0.166	1,421.17
1044	19-1-19	19-1-18	8	188.782	0.01	31.3	1.855	0.17	0.06	0.11	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	31.3	1.857	0.17	0.06	0.11	531.765
1208	20-4-16	20-4-15	12	367.616	0.13	336.3	8.88	0.16	0.06	0.164	5,726.79
1372	30-1-11	30-1-14	8	265.862	0.06	74.8	4.446	0.16	0.06	0.11	1,274.35
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1307	28-1-03	28-1-02	8	155.436	0.17	129.4	7.718	0.16	0.06	0.109	2,215.51
1330	28-3-15	28-3-14	8	202.922	0.08	91	5.444	0.16	0.06	0.109	1,564.69
1028	19-1-02	19-1-01	10	265.303	0.01	50.8	1.983	0.16	0.06	0.135	897.861
977	17-2-20	17-2-21	10	216.023	0.01	63.2	2.503	0.16	0.06	0.133	1,140.43
1234	21-3-04	21-3-03	15	400.893	0.06	395	7.024	0.16	0.06	0.198	7,230.42
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1137	19-4-18	19-4-17	8	372.632	0.01	31.1	1.963	0.16	0.05	0.105	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	31.1	1.967	0.16	0.05	0.105	578.662
990	17-2-33	17-2-31	10	99.544	0.02	63.2	2.579	0.16	0.05	0.13	1,190.00
1399	30-3-01	30-2-02	8	347.693	0.02	38.3	2.458	0.16	0.05	0.104	727.923
1383	30-2-02	30-2-01	8	366.127	0.02	38.3	2.478	0.16	0.05	0.103	736.18
1331	28-3-17	28-3-15	8	415.509	0.11	91	5.933	0.15	0.05	0.103	1,768.60
1007	18-1-19	17-2-16	10	85.069	0.02	63.2	2.692	0.15	0.05	0.127	1,264.88
1401	30-3-03	30-3-02	8	313.231	0.02	38.3	2.55	0.15	0.05	0.101	766.921
1339	28-4-03	28-3-17	8	355.875	0.12	91	6.22	0.15	0.05	0.099	1,891.81
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1400	30-3-02	30-3-01	8	281.493	0.02	38.3	2.648	0.15	0.05	0.099	809.001
988	17-2-31	17-2-32	10	34.461	0.02	63.2	2.899	0.14	0.05	0.12	1,405.25
1034	19-1-08	19-1-07	10	303.907	0.01	50.8	2.332	0.14	0.05	0.12	1,131.17
1402	30-3-04	30-3-03	8	249.614	0.03	38.3	2.762	0.14	0.05	0.096	859.109
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237
1120	19-3-43	19-3-34	8	277.631	0.02	31.1	2.297	0.14	0.04	0.094	721.704
1345	29-1-05	29-1-03	10	176.995	0.38	259.5	12.347	0.14	0.04	0.117	6,079.90
1368	30-1-05	30-1-06	8	198.059	0.03	36.5	2.733	0.14	0.04	0.093	864.026
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1371	30-1-08	30-1-11	8	56.083	0.11	74.8	5.716	0.14	0.04	0.092	1,822.60
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1042	19-1-17	19-1-16	8	442.425	0.02	31.3	2.42	0.14	0.04	0.091	775.604
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1136	19-4-17	19-4-13	8	239.707	0.02	31.1	2.42	0.14	0.04	0.091	777.493
1032	19-1-06	19-1-05	10	215.234	0.02	50.8	2.537	0.14	0.04	0.114	1,275.16
1035	19-1-10	19-1-08	10	267.538	0.02	50.8	2.6	0.13	0.04	0.112	1,320.68
1012	18-3-33	18-3-38	12	234.47	0.02	83.1	2.993	0.13	0.04	0.133	2,201.35
1245	21-3-28	21-3-10	18	171.574	0	110.8	1.8	0.13	0.04	0.197	2,997.81
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1309	28-1-09	28-1-04	12	242.622	0.05	129.4	4.927	0.13	0.04	0.128	3,711.32
1121	19-3-44	19-3-43	8	212.155	0.03	31.1	2.73	0.13	0.03	0.084	923.609
1117	19-3-34	19-3-33	8	161.198	0.03	31.1	2.778	0.12	0.03	0.083	947.138
1404	30-3-06	30-3-05	8	479.243	0.05	38.3	3.439	0.12	0.03	0.082	1,174.62
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1366	30-1-03	30-1-04	8	322.785	0.04	36.5	3.329	0.12	0.03	0.082	1,144.59
1327	28-2-26	21-3-43	8	787.743	0.03	26.8	2.652	0.12	0.03	0.077	944.431
1237	21-3-07	21-3-13	18	111.052	0	84	1.648	0.12	0.03	0.173	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	84	1.649	0.12	0.03	0.173	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	84	1.653	0.12	0.03	0.173	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	84	1.654	0.12	0.03	0.173	2,990.43
1408	30-4-03	30-4-02	8	394.827	0.06	36.5	3.652	0.12	0.03	0.077	1,306.78
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1219	21-1-06	WRFHEADWORKS	18	50	0.11	432.2	8.621	0.11	0.03	0.171	15,678.35
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809
1062	19-1-37	19-1-19	8	25.33	0.06	31.3	3.598	0.11	0.02	0.07	1,366.73
1406	30-4-01	30-1-45	8	298.989	0.09	36.5	4.237	0.1	0.02	0.069	1,615.90
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1313	28-1-13	28-1-12	12	301.095	0.07	91	4.836	0.1	0.02	0.102	4,203.92
1407	30-4-02	30-4-01	8	403.34	0.1	36.5	4.473	0.1	0.02	0.067	1,746.43
1116	19-3-33	19-4-18	8	61.971	0.08	31.1	3.876	0.1	0.02	0.066	1,524.43
1405	30-3-07	30-3-06	8	183.457	0.13	38.3	4.976	0.1	0.02	0.064	1,992.53
1246	21-3-29	21-3-28	10	393.116	0.02	26.8	2.278	0.1	0.02	0.079	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	26.8	3.63	0.09	0.02	0.062	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	129.4	10.956	0.07	0.01	0.074	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	26.8	3.505	0.07	0.01	0.059	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	26.8	3.516	0.07	0.01	0.059	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	26.8	3.581	0.07	0.01	0.058	2,752.41
1249	21-3-43	21-3-30	10	75.939	0.1	26.8	3.88	0.07	0.01	0.055	3,088.26
1038	19-1-13	19-1-01	8	398.608	0.01	3.1	0.915	0.06	0.01	0.037	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	3.1	0.97	0.05	0.01	0.035	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	3.1	1.05	0.05	0.01	0.034	638.155
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
WITHOUT Carlsborg Flows											

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1160	20-1-13	20-1-07	15	117.439	0	1985.299	3.604	1	1.05	1.25	1896.836
1161	20-1-19	20-1-13	15	165.416	0	1985.299	3.604	1	1.24	1.25	1598.262
1141	19-4-25	19-4-24	8	56.351	0	352.1	2.247	1	1.09	0.667	323.97
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1158	20-1-06	21-2-01	8	57.456	0.01	1995.499	12.737	1	3.37	0.667	591.598
1263	21-4-20	21-4-19	8	323.279	0	136.1	0.869	1	3.18	0.667	42.773
1193	20-3-01	20-2-42	12	87.82	0	650.8	2.437	0.71	0.85	0.709	765.137
1091	19-2-44	19-2-46	8	579.954	0	84.6	0.722	0.7	0.84	0.467	100.985
1138	19-4-22	20-3-10	8	512.576	0.02	480.8	4.632	0.63	0.72	0.419	666.508
1226	21-2-06	21-1-01	18	790.804	0	1,995.50	3.979	0.61	0.68	0.907	2,935.75
1197	20-3-06	20-3-04	10	300.724	0.01	572.1	3.702	0.6	0.68	0.503	843.327
1217	21-1-01	21-1-02	18	769.455	0	1,995.50	4.023	0.6	0.67	0.899	2,976.20
1188	20-2-40	20-2-39	12	382.757	0	669.3	3.126	0.59	0.65	0.585	1,036.62
1225	21-2-03	21-2-22	18	109	0.01	1,995.50	4.256	0.57	0.62	0.858	3,201.67
1139	19-4-23	19-4-22	8	659	0.01	352.1	3.959	0.55	0.59	0.369	595.401
1140	19-4-24	19-4-23	8	622.555	0.01	352.1	3.966	0.55	0.59	0.368	596.872
1142	19-4-26	19-4-25	8	412.69	0.01	352.1	4.034	0.55	0.58	0.363	610.42
1397	30-2-25	19-3-27	8	201.839	0	194.8	2.256	0.54	0.57	0.36	342.359
1385	30-2-12	30-2-11	8	253.12	0	194.8	2.261	0.54	0.57	0.359	343.507
1384	30-2-11	30-2-25	8	317.001	0	194.8	2.265	0.54	0.57	0.359	344.2
1144	19-4-32	19-4-27	8	244.428	0.01	352.1	4.189	0.53	0.55	0.352	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	352.1	4.205	0.53	0.55	0.351	644.544
1145	19-4-33	19-4-32	8	193.37	0.01	352.1	4.253	0.52	0.54	0.348	654.371
1363	29-3-16	29-3-17	8	401.862	0.01	259.5	3.149	0.52	0.54	0.347	485.261
1173	20-2-05	20-2-04	15	311.909	0.01	1,076.70	3.721	0.52	0.53	0.65	2,015.97
1153	19-4-47	19-4-46	8	126.27	0	128.7	1.568	0.52	0.53	0.346	241.969
1152	19-4-46	19-4-42	8	125.896	0	128.7	1.57	0.52	0.53	0.346	242.328
1181	20-2-25	20-2-21	15	150.591	0.01	1,041.50	3.643	0.52	0.53	0.644	1,981.99
1171	20-1-51	20-1-19	15	399.329	0.01	1,599.50	5.714	0.51	0.51	0.633	3,130.23
1172	20-2-04	20-1-49	15	390.979	0.01	1,599.50	5.755	0.5	0.51	0.63	3,160.06
1179	20-2-17	20-2-46	15	330.36	0.01	1,049.10	3.792	0.5	0.5	0.627	2,085.37
1192	20-2-46	20-2-05	15	322.684	0.01	1,049.10	3.876	0.49	0.49	0.617	2,146.94
1189	20-2-41	20-2-40	12	217.516	0.01	669.3	3.964	0.48	0.47	0.484	1,417.43
969	17-2-12	17-2-13	12	303.616	0	434.3	2.573	0.48	0.47	0.483	920.151
1146	19-4-34	19-4-33	8	222.441	0.02	316.8	4.227	0.48	0.47	0.322	672.312
1187	20-2-39	20-2-43	12	427.648	0.01	669.3	3.989	0.48	0.47	0.481	1,429.61
1185	20-2-34	20-2-32	15	328.102	0.01	1,016.30	3.932	0.48	0.46	0.595	2,212.20
1190	20-2-42	20-2-41	12	92.525	0.01	669.3	4.115	0.47	0.45	0.47	1,490.86

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1184	20-2-32	20-2-29	15	331.328	0.01	1,025.60	4.075	0.47	0.44	0.583	2,314.37
1055	19-1-30	19-1-29	8	678.565	0.01	209.9	2.943	0.47	0.44	0.31	476.042
1166	20-1-34	20-1-30	12	354.986	0	355.7	2.218	0.47	0.44	0.465	807.304
1191	20-2-43	20-2-38	12	369.052	0.01	669.3	4.213	0.46	0.44	0.461	1,538.93
1163	20-1-25	20-1-20	12	169.112	0	375.9	2.382	0.46	0.43	0.459	871.805
1147	19-4-40	19-4-34	8	331.621	0.02	316.8	4.528	0.46	0.43	0.305	737.535
1186	20-2-38	20-2-34	15	438.816	0.01	979.1	3.982	0.46	0.43	0.572	2,280.30
1095	19-2-54	19-2-59	8	122.685	0.01	209.9	3.022	0.46	0.43	0.304	493.406
1169	20-1-49	20-1-50	15	273.274	0.02	1,599.50	6.582	0.45	0.42	0.567	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	1,599.50	6.596	0.45	0.42	0.566	3,794.91
1070	19-2-16	19-2-54	8	329.97	0.01	209.9	3.052	0.45	0.42	0.301	500.039
1069	19-2-15	19-2-16	8	465.861	0.01	209.9	3.052	0.45	0.42	0.301	500.103
1071	19-2-17	19-1-30	8	787.887	0.01	209.9	3.059	0.45	0.42	0.301	501.469
1364	29-3-17	29-3-18	10	402.175	0	259.5	2.426	0.45	0.42	0.375	621.901
1097	19-2-59	19-2-17	8	213.617	0.01	209.9	3.104	0.45	0.41	0.297	511.507
1165	20-1-30	20-1-26	12	354.769	0	365.8	2.407	0.45	0.41	0.446	892.782
1365	29-3-18	29-1-21	10	398.124	0	259.5	2.49	0.44	0.4	0.368	644.294
1317	28-1-20	28-1-19	8	64.719	0	136.1	2.041	0.44	0.4	0.294	337.98
1349	29-1-17	29-1-16	10	418.361	0	259.5	2.497	0.44	0.4	0.367	646.739
1149	G&OADD2	19-4-40	8	356.5	0.02	314.2	4.725	0.44	0.4	0.294	783.474
1292	27-2-05	27-2-04	8	212.723	0	136.1	2.066	0.44	0.4	0.292	343.749
1314	28-1-31	28-1-30	8	394.454	0	136.1	2.073	0.44	0.39	0.291	345.255
1162	20-1-20	20-1-19	12	160.958	0	385.8	2.612	0.44	0.39	0.436	978.905
1353	29-1-21	29-1-20	10	402.791	0	259.5	2.532	0.44	0.39	0.363	659.121
1242	21-3-12	21-3-17	12	222.893	0	270.4	1.834	0.44	0.39	0.436	687.646
1230	21-2-22	21-2-06	18	1,831.00	0.01	1,995.50	6.025	0.44	0.39	0.653	5,086.60
1067	19-2-12	19-2-14	8	206.905	0.01	193.2	2.961	0.43	0.39	0.289	494.369
968	17-2-11	17-2-12	12	104.09	0.01	434.3	2.959	0.43	0.39	0.434	1,111.22
1277	24-1-26	24-1-06	8	289.66	0.01	193.2	2.973	0.43	0.39	0.289	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	193.2	2.976	0.43	0.39	0.288	497.667
1223	21-2-01	21-2-02	18	518.06	0.01	1,995.50	6.077	0.43	0.39	0.648	5,146.34
1267	24-1-02	24-1-03	8	348.953	0.01	193.2	2.979	0.43	0.39	0.288	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	193.2	2.979	0.43	0.39	0.288	498.425
1224	21-2-02	21-2-03	18	1,115.17	0.01	1,995.50	6.081	0.43	0.39	0.648	5,150.85
1266	24-1-01	24-1-02	8	364.678	0.01	193.2	2.982	0.43	0.39	0.288	498.946
1096	19-2-56	19-2-10	8	449.312	0.01	193.2	2.987	0.43	0.39	0.288	500.1
963	17-2-06	17-2-07	12	101.697	0.01	434.3	2.984	0.43	0.39	0.431	1,124.22
1065	19-2-10	19-2-11	8	135.736	0.01	193.2	2.989	0.43	0.39	0.287	500.541

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1066	19-2-11	19-2-12	8	294.868	0.01	193.2	2.99	0.43	0.39	0.287	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	193.2	2.99	0.43	0.39	0.287	500.842
1159	20-1-07	20-1-06	18	1,319.26	0.01	1,985.30	6.07	0.43	0.39	0.646	5,147.03
1168	20-1-39	20-1-38	12	255.284	0	345.6	2.38	0.43	0.39	0.431	897.542
1274	24-1-14	24-1-01	8	220.548	0.01	193.2	2.995	0.43	0.39	0.287	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	193.2	2.996	0.43	0.39	0.287	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	193.2	2.998	0.43	0.38	0.287	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	193.2	2.998	0.43	0.38	0.287	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	193.2	2.998	0.43	0.38	0.287	502.741
1054	19-1-29	19-1-28	8	438.473	0.01	216.1	3.357	0.43	0.38	0.287	563.01
1270	24-1-06	24-1-07	8	97.95	0.01	193.2	3.002	0.43	0.38	0.286	503.589
1265	21-4-24	21-4-21	8	126.481	0	136.1	2.117	0.43	0.38	0.286	355.323
964	17-2-07	17-2-08	12	334.55	0.01	434.3	3.007	0.43	0.38	0.429	1,136.18
1312	28-1-12	28-1-11	8	281.382	0	129.4	2.023	0.43	0.38	0.285	340.007
962	17-2-05	17-2-06	12	232.966	0.01	434.3	3.045	0.43	0.38	0.425	1,155.49
1053	19-1-28	19-1-27	8	259.296	0.01	216.1	3.41	0.43	0.38	0.283	575.095
1155	19-4-49	19-4-48	8	250.077	0	128.7	2.037	0.42	0.37	0.283	343.876
1196	20-3-04	20-3-01	12	110.258	0.01	650.8	4.581	0.42	0.37	0.424	1,740.95
1380	30-1-41	30-1-19	8	354.251	0	128.7	2.038	0.42	0.37	0.282	344.293
1254	21-4-05	21-4-02	8	158.26	0	136.1	2.156	0.42	0.37	0.282	364.236
967	17-2-10	17-2-11	12	218.347	0.01	434.3	3.089	0.42	0.37	0.42	1,178.66
971	17-2-14	PWPS	12	184.844	0.01	434.3	3.113	0.42	0.37	0.418	1,191.02
1164	20-1-26	20-1-25	12	169.233	0	375.9	2.695	0.42	0.37	0.418	1,031.17
1302	27-2-21	27-2-20	8	161.176	0	123.4	1.997	0.42	0.36	0.278	339.984
965	17-2-08	17-2-09	12	306.365	0.01	434.3	3.126	0.42	0.36	0.416	1,197.84
1299	27-2-18	27-2-10	8	188.538	0	123.4	2.01	0.42	0.36	0.276	342.981
1301	27-2-20	27-2-19	8	289.947	0	123.4	2.014	0.41	0.36	0.276	343.961
1303	27-2-22	27-2-21	8	167.014	0	123.4	2.016	0.41	0.36	0.276	344.429
1304	27-2-23	27-2-22	8	149.448	0	123.4	2.017	0.41	0.36	0.276	344.564
994	17-3-04	17-2-05	12	221.097	0.01	434.3	3.187	0.41	0.35	0.41	1,229.42
1180	20-2-21	20-2-17	15	187.297	0.01	1,041.50	4.958	0.41	0.35	0.508	3,004.01
1204	20-4-07	20-4-06	12	397.849	0	336.3	2.529	0.4	0.34	0.403	984.482
1202	20-3-15	20-3-06	12	203.572	0.01	498.4	3.799	0.4	0.34	0.399	1,486.56
1200	20-3-10	20-3-08	12	348.384	0.01	480.8	3.718	0.4	0.33	0.395	1,462.82
1203	20-4-06	20-1-39	12	392	0	336.3	2.603	0.39	0.33	0.394	1,024.33
1098	19-2-62	19-2-39	8	362.45	0	84.6	1.477	0.39	0.33	0.262	258.656
1167	20-1-38	20-1-34	12	191.441	0.01	345.6	2.761	0.39	0.31	0.385	1,099.32
1110	19-3-26	19-4-44	8	285.064	0.01	194.8	3.508	0.39	0.31	0.256	621.212

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1216	20-4-42	20-4-07	12	329.641	0.01	336.3	2.708	0.38	0.31	0.383	1,081.55
1199	20-3-08	20-3-15	12	166.018	0.01	498.4	4.092	0.38	0.3	0.377	1,646.13
1154	19-4-48	19-4-47	8	241.949	0.01	128.7	2.39	0.38	0.3	0.251	428.176
961	17-2-04	17-3-01	12	345.616	0.01	424.1	3.512	0.38	0.3	0.375	1,417.12
1362	29-3-15	29-3-16	8	237.428	0.03	259.5	4.882	0.37	0.3	0.248	878.756
1305	28-1-01	21-4-04	8	383.288	0.01	129.4	2.438	0.37	0.3	0.248	439.184
998	18-1-04	18-1-03	12	300.784	0	307.6	2.594	0.37	0.29	0.37	1,054.06
1359	29-3-12	29-3-13	8	328.996	0.03	259.5	4.975	0.37	0.29	0.245	901.92
991	17-3-01	17-3-02	12	318.869	0.01	424.1	3.616	0.37	0.29	0.367	1,475.36
1258	21-4-09	21-4-08	8	50.49	0.01	136.1	2.653	0.36	0.28	0.242	484.022
1099	19-2-71	19-2-62	8	185.256	0	84.6	1.663	0.36	0.28	0.24	304.275
1001	18-1-07	18-1-06	12	453.25	0.01	307.6	2.749	0.35	0.27	0.354	1,142.13
1052	19-1-27	19-1-26	8	403.413	0.02	216.1	4.349	0.35	0.27	0.236	803.166
1157	19-4-51	G&OADD2	8	411.715	0.02	194.8	3.94	0.35	0.27	0.235	729.048
1289	27-2-02	27-2-01	8	113.774	0.01	136.1	2.754	0.35	0.27	0.235	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	136.1	2.756	0.35	0.27	0.235	510.101
1264	21-4-21	21-4-20	8	149.173	0.01	136.1	2.791	0.35	0.26	0.233	519.235
1259	21-4-10	21-4-11	8	31.731	0.01	136.1	2.828	0.35	0.26	0.231	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	136.1	2.833	0.35	0.26	0.23	530.03
999	18-1-05	18-1-04	12	206.235	0.01	307.6	2.889	0.34	0.25	0.342	1,223.01
1024	18-4-25	18-4-24	8	397.125	0.01	116.5	2.498	0.34	0.25	0.226	472.646
1022	18-4-23	17-2-01	8	384.354	0.01	116.5	2.528	0.34	0.24	0.224	480.434
1290	27-2-03	27-2-02	8	149.302	0.01	136.1	2.959	0.34	0.24	0.223	562.945
1089	19-2-39	19-2-40	8	218.916	0	84.6	1.849	0.33	0.24	0.222	352.528
1023	18-4-24	18-4-23	8	399.081	0.01	116.5	2.552	0.33	0.24	0.222	486.949
970	17-2-13	17-2-14	12	53.433	0.01	434.3	4.262	0.33	0.24	0.331	1,835.12
1111	19-3-27	19-3-26	8	266.061	0.02	194.8	4.338	0.33	0.23	0.219	832.801
2	17-4-01	20-2-04	12	1,022.00	0.02	508	5.089	0.33	0.23	0.326	2,209.01
960	17-2-03	17-2-04	12	237.625	0.01	424.1	4.275	0.33	0.23	0.325	1,860.59
997	18-1-03	18-1-21	12	510.506	0.01	307.6	3.127	0.32	0.23	0.323	1,364.97
1386	30-2-13	30-2-12	10	215.752	0	140.103	2.053	0.32	0.23	0.269	622.502
992	17-3-02	17-3-03	12	398.981	0.02	434.3	4.424	0.32	0.23	0.322	1,933.12
995	18-1-01	17-2-01	12	406.186	0.01	307.6	3.148	0.32	0.22	0.321	1,377.91
966	17-2-09	17-2-10	12	472.423	0.02	434.3	4.455	0.32	0.22	0.321	1,951.66
959	17-2-02	17-2-03	12	400.873	0.01	424.1	4.387	0.32	0.22	0.319	1,928.56
958	17-2-01	17-2-02	12	399.079	0.02	424.1	4.422	0.32	0.22	0.317	1,949.48
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1183	20-2-29	20-2-28	15	69.913	0.03	1,033.90	6.992	0.31	0.21	0.392	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	1,033.90	6.995	0.31	0.21	0.392	4,845.04
1008	18-1-21	18-1-02	12	145.768	0.01	307.6	3.273	0.31	0.21	0.312	1,454.73
1021	18-4-05	18-4-26	8	297.552	0.01	116.5	2.804	0.31	0.21	0.207	555.058
1300	27-2-19	27-2-18	8	77.095	0.01	123.4	2.992	0.31	0.21	0.206	594.046
1206	20-4-13	20-4-12	12	193.1	0.01	336.3	3.645	0.31	0.21	0.308	1,631.72
1257	21-4-08	21-4-07	8	139.743	0.02	136.1	3.341	0.31	0.2	0.204	666.628
1000	18-1-06	18-1-05	12	395.427	0.01	307.6	3.36	0.31	0.2	0.306	1,508.42
1355	29-2-43	30-1-20	8	362.02	0.01	128.7	3.166	0.31	0.2	0.204	632.015
1025	18-4-26	18-4-25	8	396.401	0.01	116.5	2.868	0.31	0.2	0.204	572.925
1379	30-1-20	30-1-41	8	66.423	0.01	128.7	3.169	0.31	0.2	0.204	632.995
1205	20-4-12	20-4-42	12	178.123	0.01	336.3	3.684	0.31	0.2	0.306	1,655.92
993	17-3-03	17-3-04	12	281.199	0.02	434.3	4.79	0.3	0.2	0.304	2,159.23
1026	18-4-27	18-4-05	8	370.385	0.01	116.5	2.915	0.3	0.2	0.202	585.931
1354	29-1-28	20-4-18	10	434.841	0.02	259.5	4.21	0.3	0.2	0.25	1,328.98
1150	19-4-44	19-4-51	8	213.037	0.04	194.8	4.994	0.3	0.19	0.198	1,013.51
1316	28-1-19	21-4-24	8	358.022	0.02	136.1	3.532	0.3	0.19	0.196	720.218
1352	29-1-20	29-1-19	10	419.219	0.02	259.5	4.36	0.29	0.19	0.243	1,395.69
1328	28-3-12	28-4-02	8	320.055	0.01	91	2.43	0.29	0.18	0.192	501.316
996	18-1-02	18-1-01	12	256.223	0.01	307.6	3.668	0.29	0.18	0.288	1,705.73
1356	29-3-09	29-3-10	8	251.525	0.07	259.5	6.997	0.29	0.18	0.191	1,448.66
1358	29-3-11	29-3-12	8	279.115	0.08	259.5	7.145	0.28	0.17	0.188	1,491.62
1005	18-1-11	18-1-18	8	149.044	0	63.2	1.744	0.28	0.17	0.188	364.602
1377	30-1-18	19-4-45	8	350.408	0.02	119.4	3.353	0.28	0.17	0.186	705.631
1232	21-3-02	21-3-01	15	203.266	0.01	395	3.163	0.28	0.17	0.347	2,342.65
1350	29-1-18	29-1-17	10	201.851	0.03	259.5	4.703	0.28	0.17	0.231	1,551.81
1361	29-3-14	29-3-15	8	241.785	0.09	259.5	7.456	0.27	0.16	0.183	1,583.44
1148	19-4-42	19-4-22	10	349.211	0.01	128.7	2.399	0.27	0.16	0.226	800.183
1357	29-3-10	29-3-11	8	398.375	0.09	259.5	7.702	0.27	0.16	0.178	1,657.27
1017	18-4-01	18-1-07	12	39.831	0.02	307.6	4.063	0.27	0.16	0.267	1,967.82
1251	21-4-02	G&OADD1	12	377.409	0.01	265.5	3.514	0.27	0.16	0.267	1,703.41
1051	19-1-26	19-1-22	12	329.458	0.01	234.4	3.141	0.27	0.15	0.265	1,529.97
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1235	21-3-05	21-3-04	15	509.884	0.01	395	3.414	0.26	0.15	0.329	2,606.80
1020	18-4-04	18-4-03	12	384.556	0.01	224.5	3.037	0.26	0.15	0.263	1,485.25

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1047	19-1-22	19-1-16	12	505.438	0.01	278.5	3.792	0.26	0.15	0.262	1,859.70
1019	18-4-03	18-4-02	12	506.848	0.01	224.5	3.074	0.26	0.15	0.26	1,510.74
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663
1011	18-3-32	18-3-33	12	211.336	0	83.1	1.142	0.26	0.15	0.26	562.37
1392	30-2-18	30-2-17	10	372.265	0.01	111.5	2.232	0.26	0.15	0.215	766.539
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1391	30-2-17	30-2-16	10	64.408	0.01	111.5	2.254	0.26	0.14	0.213	777.014
1291	27-2-04	27-2-03	8	178.715	0.03	136.1	4.325	0.26	0.14	0.17	956.58
1046	19-1-21	19-1-20	8	60.527	0	31.3	0.998	0.25	0.14	0.169	221.037
1253	21-4-04	21-4-03	12	799.3	0	129.4	1.835	0.25	0.14	0.254	914.436
1151	19-4-45	G&OADD2	8	185.247	0.02	119.4	3.821	0.25	0.14	0.169	847.557
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
1133	19-4-11	19-4-09	8	444.228	0.01	73.7	2.377	0.25	0.14	0.168	528.762
1376	30-1-17	30-1-18	8	382.118	0.03	119.4	3.853	0.25	0.14	0.168	857.437
1374	30-1-15	30-1-16	8	321.214	0.03	119.4	3.889	0.25	0.14	0.167	868.858
1360	29-3-13	29-3-14	8	236.006	0.12	259.5	8.458	0.25	0.14	0.167	1,889.73
1209	20-4-17	20-4-16	10	315.244	0.06	336.3	7.034	0.25	0.14	0.208	2,458.52
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
1114	19-3-31	19-3-30	8	104.645	0	45.8	1.501	0.25	0.14	0.166	336.21
1131	19-4-08	19-4-07	8	699.032	0.01	73.7	2.426	0.25	0.14	0.166	544.176
1229	21-2-21	21-2-08	8	2,869.51	0	23.2	0.765	0.25	0.14	0.166	171.68
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
1115	19-3-32	19-3-31	8	403.213	0	45.8	1.518	0.25	0.13	0.165	341.484
1112	19-3-28	30-2-13	8	269.428	0	45.8	1.522	0.25	0.13	0.165	342.696
1284	24-4-26	24-4-27	8	230.476	0	45.8	1.525	0.25	0.13	0.164	343.574
1285	24-4-27	19-3-32	8	415.524	0	45.8	1.525	0.25	0.13	0.164	343.712
1283	24-4-25	24-4-26	8	399.92	0	45.8	1.526	0.25	0.13	0.164	343.964
1282	24-4-24	24-4-25	8	297.246	0	45.8	1.526	0.25	0.13	0.164	344.076
1398	30-2-32	30-2-14	10	143.05	0.01	111.5	2.384	0.25	0.13	0.205	840.701
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1260	21-4-11	21-4-09	8	350.326	0.04	136.1	4.595	0.24	0.13	0.163	1,041.49
1287	24-4-39	24-4-34	8	662.433	0	45.8	1.55	0.24	0.13	0.162	351.648
1090	19-2-40	19-2-44	8	389.205	0.01	84.6	2.87	0.24	0.13	0.162	651.712
1130	19-4-07	19-4-06	8	605.46	0.01	73.7	2.511	0.24	0.13	0.162	571.195
1296	27-2-10	27-2-11	8	230.854	0.03	123.4	4.212	0.24	0.13	0.161	959.031
1218	21-1-02	WRFHEADWORKS	18	50	0.11	1,995.50	13.559	0.24	0.13	0.361	15,678.35

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1004	18-1-10	18-1-11	8	343.962	0.01	63.2	2.196	0.24	0.13	0.159	503.61
1297	27-2-11	27-2-12	8	180.846	0.03	123.4	4.297	0.24	0.13	0.159	986.377
1041	19-1-16	20-2-38	15	446.292	0.01	309.8	3.089	0.24	0.12	0.297	2,499.76
1132	19-4-09	19-4-08	8	681.983	0.01	73.7	2.589	0.24	0.12	0.158	596.292
1338	28-4-02	28-1-14	8	424.758	0.02	91	3.198	0.24	0.12	0.158	736.912
1262	21-4-19	21-4-18	8	208.771	0.04	136.1	4.786	0.24	0.12	0.158	1,103.06
1348	29-1-16	29-1-07	10	187.628	0.05	259.5	5.879	0.24	0.12	0.197	2,123.14
1156	19-4-50	19-4-49	8	393.949	0.04	128.7	4.559	0.24	0.12	0.157	1,054.02
1013	18-3-35	18-3-36	12	292.402	0	83.1	1.32	0.23	0.12	0.234	689.014
1240	21-3-10	21-3-05	15	274.714	0.01	386.7	3.934	0.23	0.12	0.293	3,210.21
1250	G&OADD1	21-3-12	12	389.309	0.02	270.4	4.301	0.23	0.12	0.234	2,246.06
1241	21-3-11	21-3-31	12	144.196	0.02	275.9	4.395	0.23	0.12	0.234	2,297.16
1311	28-1-11	28-1-10	12	243.143	0.01	129.4	2.063	0.23	0.12	0.234	1,078.42
1009	18-3-01	18-4-04	12	36.125	0.01	224.5	3.6	0.23	0.12	0.233	1,886.27
1003	18-1-09	18-1-10	8	367.771	0.01	63.2	2.324	0.23	0.12	0.153	545.445
1113	19-3-30	19-3-28	8	590.482	0.01	45.8	1.684	0.23	0.12	0.153	395.288
1210	20-4-18	20-4-17	10	22.66	0.05	259.5	6.163	0.23	0.11	0.19	2,268.95
1256	21-4-07	21-4-06	8	60.782	0.05	136.1	5.063	0.23	0.11	0.152	1,193.95
1129	19-4-06	20-3-07	8	70.467	0.01	73.7	2.745	0.23	0.11	0.152	647.808
1221	21-1-09	21-1-08	18	282.589	0.01	432.2	3.183	0.23	0.11	0.341	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	432.2	3.187	0.23	0.11	0.341	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	432.2	3.187	0.23	0.11	0.341	3,810.51
1396	30-2-23	30-2-21	10	196.778	0.01	111.5	2.671	0.23	0.11	0.189	986.537
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	123.4	4.622	0.23	0.11	0.151	1,092.97
1016	18-3-38	18-3-35	12	253.099	0	83.1	1.398	0.23	0.11	0.225	747.408
1318	28-1-29	28-1-20	8	363.951	0.05	136.1	5.187	0.22	0.11	0.149	1,235.61
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	418.2	3.157	0.22	0.11	0.336	3,811.19
1227	21-2-07	21-1-10	18	102.071	0.01	418.2	3.168	0.22	0.11	0.335	3,829.92
1027	19-1-01	18-4-27	8	420.515	0.01	53.9	2.074	0.22	0.11	0.148	496.115
1261	21-4-18	21-4-10	8	249.725	0.05	136.1	5.249	0.22	0.11	0.148	1,256.39
1014	18-3-36	18-3-37	12	346.739	0	83.1	1.428	0.22	0.11	0.222	770.132
1002	18-1-08	18-1-09	8	365.984	0.01	63.2	2.451	0.22	0.11	0.148	588.071
1248	21-3-31	21-3-10	12	133.4	0.03	275.9	4.79	0.22	0.11	0.22	2,593.32
1306	28-1-02	28-1-01	8	247.684	0.05	129.4	5.056	0.22	0.11	0.147	1,216.75
1228	21-2-11	21-2-08	18	760.617	0.01	395	3.099	0.22	0.1	0.327	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	395	3.104	0.22	0.1	0.326	3,810.33
1403	30-3-05	30-3-04	8	115.798	0.01	38.3	1.529	0.22	0.1	0.145	371.352
1346	29-1-06	29-1-05	10	254.333	0.07	259.5	6.665	0.22	0.1	0.18	2,534.09

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1390	30-2-16	30-2-15	10	360.927	0.01	111.5	2.875	0.22	0.1	0.18	1,094.81
1288	27-2-01	28-1-31	8	255.578	0.06	136.1	5.494	0.22	0.1	0.143	1,340.06
1036	19-1-11	19-1-10	10	263.273	0	50.8	1.328	0.21	0.1	0.178	508.411
1286	24-4-34	24-4-24	8	208.15	0.01	45.8	1.871	0.21	0.1	0.142	458.545
1370	30-1-07	30-1-06	8	418.833	0.01	38.3	1.569	0.21	0.1	0.142	385.06
1244	21-3-17	21-3-11	12	186.646	0.03	270.4	4.932	0.21	0.1	0.213	2,724.62
1018	18-4-02	18-4-01	12	189.934	0.02	224.5	4.102	0.21	0.1	0.213	2,267.84
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
1198	20-3-07	20-3-06	8	454.124	0.02	73.7	3.092	0.21	0.1	0.14	766.399
1010	18-3-10	18-3-01	12	398.208	0.02	224.5	4.216	0.21	0.1	0.208	2,357.59
1006	18-1-18	18-1-19	10	107.771	0.01	63.2	1.711	0.21	0.1	0.174	664.837
973	17-2-16	17-2-17	10	217.198	0.01	63.2	1.749	0.21	0.09	0.171	685.544
1367	30-1-04	30-1-05	8	389.779	0.01	36.5	1.587	0.2	0.09	0.136	399.153
1382	30-2-01	30-1-07	8	267.898	0.01	38.3	1.669	0.2	0.09	0.136	420.257
1122	19-3-46	19-3-44	8	148.328	0	31.1	1.362	0.2	0.09	0.136	343.549
1123	19-3-47	19-3-46	8	301.624	0	31.1	1.363	0.2	0.09	0.135	343.858
1389	30-2-15	30-2-32	10	284.705	0.02	111.5	3.127	0.2	0.09	0.169	1,232.68
1233	21-3-03	21-3-02	15	273.312	0.02	395	4.932	0.2	0.09	0.254	4,378.42
1378	30-1-19	19-4-50	8	139.234	0.07	128.7	5.664	0.2	0.09	0.135	1,431.63
1329	28-3-14	28-3-12	8	340.805	0.04	91	4.031	0.2	0.09	0.134	1,021.69
1394	30-2-20	30-2-19	10	277.422	0.02	111.5	3.222	0.2	0.09	0.166	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	111.5	3.223	0.2	0.09	0.166	1,286.47
1381	30-1-45	30-1-03	8	116.402	0.01	36.5	1.65	0.2	0.09	0.133	421.703
1343	29-1-02	29-1-28	10	420.998	0.09	259.5	7.518	0.2	0.09	0.166	3,004.81
1275	24-1-15	24-1-14	12	431.609	0.02	193.2	3.903	0.2	0.09	0.198	2,250.02
1207	20-4-15	20-4-13	12	195.888	0.06	336.3	6.796	0.2	0.09	0.198	3,918.42
1373	30-1-14	30-1-15	8	262.922	0.07	119.4	5.451	0.2	0.09	0.132	1,398.95
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1308	28-1-04	28-1-03	8	163.086	0.08	129.4	5.96	0.2	0.08	0.131	1,535.33
1092	19-2-46	19-2-53	10	355.676	0.01	84.6	2.495	0.2	0.08	0.164	1,004.28
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
975	17-2-18	17-2-19	10	144.435	0.01	63.2	1.867	0.2	0.08	0.163	751.922
1015	18-3-37	18-4-01	12	274.98	0	83.1	1.707	0.2	0.08	0.196	990.753
1037	19-1-12	19-1-11	8	136.141	0.01	50.8	2.353	0.2	0.08	0.13	607.673
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
1063	19-1-38	19-1-37	8	334.348	0.01	31.3	1.455	0.2	0.08	0.13	376.183
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1395	30-2-21	30-2-20	10	217.583	0.02	111.5	3.411	0.19	0.08	0.159	1,394.12

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1310	28-1-10	28-1-09	12	230.353	0.01	129.4	2.811	0.19	0.08	0.188	1,670.30
1347	29-1-07	29-1-06	10	262.001	0.12	259.5	8.124	0.19	0.08	0.157	3,353.04
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
980	17-2-23	17-2-24	10	299.088	0.01	63.2	2.008	0.19	0.08	0.155	834.02
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
987	17-2-30	17-2-33	10	267.515	0.01	63.2	2.021	0.19	0.08	0.154	841.806
981	17-2-24	17-2-25	10	296.445	0.01	63.2	2.028	0.19	0.08	0.154	845.522
982	17-2-25	17-2-26	10	346.589	0.01	63.2	2.028	0.19	0.08	0.154	845.73
986	17-2-29	17-2-30	10	242.085	0.01	63.2	2.035	0.19	0.07	0.154	850.2
979	17-2-22	17-2-23	10	296.781	0.01	63.2	2.04	0.18	0.07	0.154	852.761
1315	28-1-14	28-1-13	8	328.472	0.05	91	4.635	0.18	0.07	0.122	1,245.47
983	17-2-26	17-2-27	10	268.744	0.01	63.2	2.065	0.18	0.07	0.152	867.423
1045	19-1-20	19-1-38	8	252.835	0.01	31.3	1.606	0.18	0.07	0.121	432.594
1375	30-1-16	30-1-17	8	373.616	0.09	119.4	6.149	0.18	0.07	0.121	1,659.65
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1276	24-1-16	24-1-15	12	354.375	0.03	193.2	4.444	0.18	0.07	0.181	2,704.08
1031	19-1-05	19-1-04	10	303.991	0.01	50.8	1.69	0.18	0.07	0.15	715.317
1030	19-1-04	19-1-03	10	300.714	0.01	50.8	1.696	0.18	0.07	0.15	719.204
978	17-2-21	17-2-22	10	242.47	0.01	63.2	2.194	0.18	0.07	0.146	945.568
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1369	30-1-06	30-1-08	8	302.642	0.05	74.8	4.132	0.17	0.07	0.115	1,148.53
1388	30-2-14	30-2-13	10	491.303	0.03	111.5	3.946	0.17	0.07	0.144	1,714.76
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1033	19-1-07	19-1-06	10	91.805	0.01	50.8	1.824	0.17	0.06	0.143	797.098
1344	29-1-03	29-1-02	10	553.688	0.18	259.5	9.478	0.17	0.06	0.141	4,173.42
1135	19-4-13	19-4-12	8	327.186	0.01	31.1	1.782	0.17	0.06	0.112	503.061
976	17-2-19	17-2-20	10	293.842	0.01	63.2	2.318	0.17	0.06	0.14	1,022.48
1029	19-1-03	19-1-02	10	300.714	0.01	50.8	1.867	0.17	0.06	0.14	823.951
1351	29-1-19	29-1-18	10	127.562	0.19	259.5	9.643	0.17	0.06	0.139	4,276.76
984	17-2-27	17-2-28	10	226.538	0.01	63.2	2.359	0.17	0.06	0.139	1,048.14

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1340	28-4-04	28-4-03	8	400.195	0.08	91	5.311	0.17	0.06	0.111	1,511.06
989	17-2-32	PWPS	10	30.835	0.01	63.2	2.363	0.17	0.06	0.139	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	63.2	2.367	0.17	0.06	0.138	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	63.2	2.377	0.17	0.06	0.138	1,059.29
1094	19-2-53	18-3-10	12	1,094.58	0.01	84.6	2.213	0.17	0.06	0.166	1,421.17
1044	19-1-19	19-1-18	8	188.782	0.01	31.3	1.855	0.17	0.06	0.11	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	31.3	1.857	0.17	0.06	0.11	531.765
1208	20-4-16	20-4-15	12	367.616	0.13	336.3	8.88	0.16	0.06	0.164	5,726.79
1372	30-1-11	30-1-14	8	265.862	0.06	74.8	4.446	0.16	0.06	0.11	1,274.35
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1307	28-1-03	28-1-02	8	155.436	0.17	129.4	7.718	0.16	0.06	0.109	2,215.51
1330	28-3-15	28-3-14	8	202.922	0.08	91	5.444	0.16	0.06	0.109	1,564.69
1028	19-1-02	19-1-01	10	265.303	0.01	50.8	1.983	0.16	0.06	0.135	897.861
977	17-2-20	17-2-21	10	216.023	0.01	63.2	2.503	0.16	0.06	0.133	1,140.43
1234	21-3-04	21-3-03	15	400.893	0.06	395	7.024	0.16	0.06	0.198	7,230.42
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1137	19-4-18	19-4-17	8	372.632	0.01	31.1	1.963	0.16	0.05	0.105	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	31.1	1.967	0.16	0.05	0.105	578.662
990	17-2-33	17-2-31	10	99.544	0.02	63.2	2.579	0.16	0.05	0.13	1,190.00
1399	30-3-01	30-2-02	8	347.693	0.02	38.3	2.458	0.16	0.05	0.104	727.923
1383	30-2-02	30-2-01	8	366.127	0.02	38.3	2.478	0.16	0.05	0.103	736.18
1331	28-3-17	28-3-15	8	415.509	0.11	91	5.933	0.15	0.05	0.103	1,768.60
1007	18-1-19	17-2-16	10	85.069	0.02	63.2	2.692	0.15	0.05	0.127	1,264.88
1401	30-3-03	30-3-02	8	313.231	0.02	38.3	2.55	0.15	0.05	0.101	766.921
1339	28-4-03	28-3-17	8	355.875	0.12	91	6.22	0.15	0.05	0.099	1,891.81
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1400	30-3-02	30-3-01	8	281.493	0.02	38.3	2.648	0.15	0.05	0.099	809.001
988	17-2-31	17-2-32	10	34.461	0.02	63.2	2.899	0.14	0.05	0.12	1,405.25
1034	19-1-08	19-1-07	10	303.907	0.01	50.8	2.332	0.14	0.05	0.12	1,131.17
1402	30-3-04	30-3-03	8	249.614	0.03	38.3	2.762	0.14	0.05	0.096	859.109
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237
1120	19-3-43	19-3-34	8	277.631	0.02	31.1	2.297	0.14	0.04	0.094	721.704
1345	29-1-05	29-1-03	10	176.995	0.38	259.5	12.347	0.14	0.04	0.117	6,079.90
1368	30-1-05	30-1-06	8	198.059	0.03	36.5	2.733	0.14	0.04	0.093	864.026
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259
1371	30-1-08	30-1-11	8	56.083	0.11	74.8	5.716	0.14	0.04	0.092	1,822.60
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1042	19-1-17	19-1-16	8	442.425	0.02	31.3	2.42	0.14	0.04	0.091	775.604
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1136	19-4-17	19-4-13	8	239.707	0.02	31.1	2.42	0.14	0.04	0.091	777.493
1032	19-1-06	19-1-05	10	215.234	0.02	50.8	2.537	0.14	0.04	0.114	1,275.16
1035	19-1-10	19-1-08	10	267.538	0.02	50.8	2.6	0.13	0.04	0.112	1,320.68
1012	18-3-33	18-3-38	12	234.47	0.02	83.1	2.993	0.13	0.04	0.133	2,201.35
1245	21-3-28	21-3-10	18	171.574	0	110.8	1.8	0.13	0.04	0.197	2,997.81
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1309	28-1-09	28-1-04	12	242.622	0.05	129.4	4.927	0.13	0.04	0.128	3,711.32
1121	19-3-44	19-3-43	8	212.155	0.03	31.1	2.73	0.13	0.03	0.084	923.609
1117	19-3-34	19-3-33	8	161.198	0.03	31.1	2.778	0.12	0.03	0.083	947.138
1404	30-3-06	30-3-05	8	479.243	0.05	38.3	3.439	0.12	0.03	0.082	1,174.62
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1366	30-1-03	30-1-04	8	322.785	0.04	36.5	3.329	0.12	0.03	0.082	1,144.59
1327	28-2-26	21-3-43	8	787.743	0.03	26.8	2.652	0.12	0.03	0.077	944.431
1237	21-3-07	21-3-13	18	111.052	0	84	1.648	0.12	0.03	0.173	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	84	1.649	0.12	0.03	0.173	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	84	1.653	0.12	0.03	0.173	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	84	1.654	0.12	0.03	0.173	2,990.43
1408	30-4-03	30-4-02	8	394.827	0.06	36.5	3.652	0.12	0.03	0.077	1,306.78
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1219	21-1-06	WRFHEADWORKS	18	50	0.11	432.2	8.621	0.11	0.03	0.171	15,678.35
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809
1062	19-1-37	19-1-19	8	25.33	0.06	31.3	3.598	0.11	0.02	0.07	1,366.73
1406	30-4-01	30-1-45	8	298.989	0.09	36.5	4.237	0.1	0.02	0.069	1,615.90
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037
1313	28-1-13	28-1-12	12	301.095	0.07	91	4.836	0.1	0.02	0.102	4,203.92
1407	30-4-02	30-4-01	8	403.34	0.1	36.5	4.473	0.1	0.02	0.067	1,746.43

TABLE E-13

City of Sequim 2018 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1116	19-3-33	19-4-18	8	61.971	0.08	31.1	3.876	0.1	0.02	0.066	1,524.43
1405	30-3-07	30-3-06	8	183.457	0.13	38.3	4.976	0.1	0.02	0.064	1,992.53
1246	21-3-29	21-3-28	10	393.116	0.02	26.8	2.278	0.1	0.02	0.079	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	26.8	3.63	0.09	0.02	0.062	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	129.4	10.956	0.07	0.01	0.074	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	26.8	3.505	0.07	0.01	0.059	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	26.8	3.516	0.07	0.01	0.059	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	26.8	3.581	0.07	0.01	0.058	2,752.41
1249	21-3-43	21-3-30	10	75.939	0.1	26.8	3.88	0.07	0.01	0.055	3,088.26
1038	19-1-13	19-1-01	8	398.608	0.01	3.1	0.915	0.06	0.01	0.037	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	3.1	0.97	0.05	0.01	0.035	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	3.1	1.05	0.05	0.01	0.034	638.155
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
WITH Carlsborg Flows									
20-1-06	2000	24.5	24.5	0	110.668	Not Full	No	1889.33	13.041
27-2-05	2000	12.7	12.7	0	235.988	Not Full	No	1764.01	1.511
20-1-19	2000	0	0	0	116.159	Not Full	Yes	1883.84	1.309
20-1-20	2000	9.9	9.9	0	116.261	Not Full	No	1883.74	1.061
17-2-13	2,000.00	0	0	0	75.259	Not Full	No	1,924.74	0.839
20-1-25	2,000.00	0	0	0	116.363	Not Full	No	1,883.64	0.663
19-4-22	2,000.00	0	0	0	185.646	Not Full	Yes	1,814.35	0.579
17-2-14	2,000.00	0	0	0	75.201	Not Full	Yes	1,924.80	0.481
20-1-13	2,000.00	0	0	0	114.809	Not Full	No	1,885.19	0.459
21-4-20	2,000.00	0	0	0	178.097	Not Full	Yes	1,821.90	0.391
19-4-25	2,000.00	0	0	0	201.014	Not Full	Yes	1,798.99	0.348
17-2-12	2,000.00	0	0	0	75.588	Not Full	No	1,924.41	0.168
20-1-26	2,000.00	10.1	10.1	0	116.465	Not Full	No	1,883.54	0.065
20-3-01	2,000.00	0	0	0	167.855	Not Full	Yes	1,832.15	0.055
19-1-30	2,000.00	0	0	0	190.924	Not Full	No	1,809.08	-0.143
19-2-44	2,000.00	0	0	0	176.71	Not Full	Yes	1,823.29	-0.157
19-2-54	2,000.00	0	0	0	200.507	Not Full	No	1,799.49	-0.16
19-2-16	2,000.00	0	0	0	203.291	Not Full	No	1,796.71	-0.166
19-2-15	2,000.00	203.7	203.7	0	207.231	Not Full	Yes	1,792.77	-0.166
19-2-17	2,000.00	0	0	0	197.6	Not Full	No	1,802.40	-0.167
30-2-25	2,000.00	0	0	0	258.755	Not Full	No	1,741.25	-0.172
19-4-23	2,000.00	0	0	0	192.794	Not Full	No	1,807.21	-0.173
30-2-12	2,000.00	37.5	37.5	0	261.034	Not Full	No	1,738.97	-0.173
19-4-24	2,000.00	0	0	0	200.293	Not Full	No	1,799.71	-0.174
30-2-11	2,000.00	0	0	0	260.023	Not Full	No	1,739.98	-0.174
19-2-59	2,000.00	0	0	0	199.482	Not Full	No	1,800.52	-0.175
19-4-26	2,000.00	0	0	0	205.684	Not Full	No	1,794.32	-0.183
20-3-06	2,000.00	0	0	0	170.934	Not Full	Yes	1,829.07	-0.199
19-4-32	2,000.00	0	0	0	212.965	Not Full	No	1,787.04	-0.201
19-4-27	2,000.00	0	0	0	209.564	Not Full	No	1,790.44	-0.203
19-1-29	2,000.00	6.2	6.2	0	185.661	Not Full	No	1,814.34	-0.206
19-4-33	2,000.00	35.3	35.3	0	215.758	Not Full	No	1,784.24	-0.208
19-1-28	2,000.00	0	0	0	180.953	Not Full	No	1,819.05	-0.213
19-4-34	2,000.00	0	0	0	219.128	Not Full	No	1,780.87	-0.238
19-4-40	2,000.00	2.6	2.6	0	225.202	Not Full	No	1,774.80	-0.264
19-4-47	2,000.00	0	0	0	187.587	Not Full	No	1,812.41	-0.279
19-4-46	2,000.00	0	0	0	187.337	Not Full	No	1,812.66	-0.28
G&OADD2	2,000.00	0	0	0	232.586	Not Full	No	1,767.41	-0.281
20-2-40	2,000.00	0	0	0	164.807	Not Full	Yes	1,835.19	-0.293
19-1-27	2,000.00	0	0	0	177.963	Not Full	No	1,822.04	-0.303
28-1-20	2,000.00	0	0	0	185.932	Not Full	Yes	1,814.07	-0.305
28-1-31	2,000.00	0	0	0	209.367	Not Full	Yes	1,790.63	-0.31
29-3-16	2,000.00	0	0	0	524.152	Not Full	No	1,475.85	-0.315

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-4-24	2,000.00	0	0	0	179.291	Not Full	Yes	1,820.71	-0.316
17-2-11	2,000.00	0	0	0	75.701	Not Full	No	1,924.30	-0.319
27-2-21	2,000.00	0	0	0	192.536	Not Full	No	1,807.46	-0.321
21-4-05	2,000.00	0	0	0	132.556	Not Full	Yes	1,867.44	-0.321
27-2-18	2,000.00	0	0	0	189.524	Not Full	Yes	1,810.48	-0.323
27-2-20	2,000.00	0	0	0	191.803	Not Full	No	1,808.20	-0.323
27-2-22	2,000.00	0	0	0	193.303	Not Full	No	1,806.70	-0.324
27-2-23	2,000.00	180.8	180.8	0	194.003	Not Full	No	1,806.00	-0.324
19-2-12	2,000.00	0	0	0	210.248	Not Full	No	1,789.75	-0.328
24-1-26	2,000.00	0	0	0	228.357	Not Full	No	1,771.64	-0.329
24-1-05	2,000.00	0	0	0	231.457	Not Full	No	1,768.54	-0.33
24-1-02	2,000.00	0	0	0	238.287	Not Full	No	1,761.71	-0.33
24-1-07	2,000.00	0	0	0	225.097	Not Full	No	1,774.90	-0.33
24-1-01	2,000.00	0	0	0	241.357	Not Full	No	1,758.64	-0.33
19-2-56	2,000.00	0	0	0	217.696	Not Full	No	1,782.30	-0.331
19-2-10	2,000.00	0	0	0	213.896	Not Full	No	1,786.10	-0.331
19-2-11	2,000.00	0	0	0	212.746	Not Full	No	1,787.25	-0.331
24-2-54	2,000.00	0	0	0	221.176	Not Full	No	1,778.82	-0.331
24-1-14	2,000.00	0	0	0	243.235	Not Full	No	1,756.77	-0.331
19-2-14	2,000.00	0	0	0	208.535	Not Full	No	1,791.47	-0.331
24-1-03	2,000.00	0	0	0	235.355	Not Full	No	1,764.65	-0.332
24-1-08	2,000.00	0	0	0	222.135	Not Full	No	1,777.87	-0.332
24-1-13	2,000.00	0	0	0	233.655	Not Full	No	1,766.35	-0.332
24-1-06	2,000.00	0	0	0	225.935	Not Full	No	1,774.07	-0.332
19-3-26	2,000.00	0	0	0	251.352	Not Full	No	1,748.65	-0.335
19-4-49	2,000.00	0	0	0	190.013	Not Full	Yes	1,809.99	-0.353
30-1-41	2,000.00	0	0	0	215.983	Not Full	Yes	1,784.02	-0.353
19-4-51	2,000.00	0	0	0	239.903	Not Full	No	1,760.10	-0.364
21-4-09	2,000.00	0	0	0	141.893	Not Full	No	1,858.11	-0.374
28-1-12	2,000.00	38.4	38.4	0	218.885	Not Full	Yes	1,781.12	-0.381
27-2-02	2,000.00	0	0	0	225.915	Not Full	No	1,774.09	-0.382
28-1-30	2,000.00	0	0	0	207.605	Not Full	No	1,792.40	-0.382
21-4-21	2,000.00	0	0	0	178.682	Not Full	No	1,821.32	-0.385
19-3-27	2,000.00	0	0	0	257.741	Not Full	No	1,742.26	-0.386
21-2-06	2,000.00	0	0	0	56.313	Not Full	Yes	1,943.69	-0.387
21-4-10	2,000.00	0	0	0	155.279	Not Full	No	1,844.72	-0.388
21-4-06	2,000.00	0	0	0	135.699	Not Full	No	1,864.30	-0.388
19-2-62	2,000.00	0	0	0	183.908	Not Full	No	1,816.09	-0.389
19-4-48	2,000.00	0	0	0	188.977	Not Full	No	1,811.02	-0.39
18-4-25	2,000.00	0	0	0	130.777	Not Full	No	1,869.22	-0.39
18-4-23	2,000.00	0	0	0	124.574	Not Full	No	1,875.43	-0.393
18-4-24	2,000.00	0	0	0	127.772	Not Full	No	1,872.23	-0.395
27-2-03	2,000.00	0	0	0	227.5	Not Full	No	1,772.50	-0.397
21-1-01	2,000.00	0	0	0	53.25	Not Full	No	1,946.75	-0.4

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-11	2,000.00	0	0	0	113.117	Not Full	Yes	1,886.88	-0.409
19-2-71	2,000.00	94.1	94.1	0	184.565	Not Full	No	1,815.44	-0.412
18-4-05	2,000.00	0	0	0	138.253	Not Full	No	1,861.75	-0.413
19-4-44	2,000.00	0	0	0	247.252	Not Full	No	1,752.75	-0.414
27-2-19	2,000.00	0	0	0	190.452	Not Full	No	1,809.55	-0.414
29-3-15	2,000.00	0	0	0	530.252	Not Full	No	1,469.75	-0.415
18-4-26	2,000.00	0	0	0	135.149	Not Full	No	1,864.85	-0.418
29-3-12	2,000.00	0	0	0	588.298	Not Full	No	1,411.70	-0.419
28-1-01	2,000.00	0	0	0	149.948	Not Full	No	1,850.05	-0.419
18-4-27	2,000.00	108.3	108.3	0	142.546	Not Full	No	1,857.45	-0.421
21-4-08	2,000.00	0	0	0	141.196	Not Full	No	1,858.80	-0.421
20-2-05	2,000.00	0	0	0	134.422	Not Full	No	1,865.58	-0.428
19-3-31	2,000.00	0	0	0	266.227	Not Full	No	1,733.77	-0.429
20-2-41	2,000.00	0	0	0	166.37	Not Full	No	1,833.63	-0.43
28-1-19	2,000.00	0	0	0	185.456	Not Full	No	1,814.54	-0.431
30-1-18	2,000.00	0	0	0	242.835	Not Full	No	1,757.17	-0.431
19-3-32	2,000.00	0	0	0	267.815	Not Full	No	1,732.19	-0.431
19-2-39	2,000.00	0	0	0	182.945	Not Full	No	1,817.06	-0.431
19-3-28	2,000.00	0	0	0	262.705	Not Full	No	1,737.30	-0.432
20-2-25	2,000.00	7.6	7.6	0	140.578	Not Full	Yes	1,859.42	-0.432
24-4-26	2,000.00	0	0	0	270.394	Not Full	No	1,729.61	-0.432
24-4-27	2,000.00	0	0	0	269.474	Not Full	No	1,730.53	-0.432
24-4-25	2,000.00	0	0	0	271.994	Not Full	No	1,728.01	-0.432
24-4-24	2,000.00	0	0	0	273.184	Not Full	Yes	1,726.82	-0.432
20-2-39	2,000.00	0	0	0	163.067	Not Full	No	1,836.93	-0.433
24-4-39	2,000.00	91.2	91.2	0	277.432	Not Full	No	1,722.57	-0.435
29-2-43	2,000.00	154.7	154.7	0	221.685	Not Full	No	1,778.32	-0.442
30-1-20	2,000.00	0	0	0	216.794	Not Full	No	1,783.21	-0.442
30-1-04	2,000.00	0	0	0	354.223	Not Full	Yes	1,645.78	-0.444
20-2-42	2,000.00	18.5	18.5	0	167.152	Not Full	No	1,832.85	-0.448
19-3-30	2,000.00	0	0	0	265.808	Not Full	No	1,734.19	-0.449
18-1-10	2,000.00	0	0	0	116.127	Not Full	No	1,883.87	-0.45
30-1-45	2,000.00	0	0	0	369.216	Not Full	Yes	1,630.78	-0.45
29-3-17	2,000.00	0	0	0	520.981	Not Full	Yes	1,479.02	-0.453
19-4-45	2,000.00	0	0	0	236.914	Not Full	No	1,763.09	-0.453
30-1-17	2,000.00	0	0	0	252.313	Not Full	No	1,747.69	-0.454
30-1-15	2,000.00	0	0	0	295.311	Not Full	No	1,704.69	-0.456
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
20-2-17	2,000.00	7.6	7.6	0	137.852	Not Full	Yes	1,862.15	-0.458
20-2-43	2,000.00	0	0	0	159.642	Not Full	No	1,840.36	-0.458
18-1-09	2,000.00	0	0	0	119.918	Not Full	No	1,880.08	-0.459
29-3-18	2,000.00	0	0	0	519.373	Not Full	No	1,480.63	-0.46
21-2-03	2,000.00	0	0	0	77.939	Not Full	Yes	1,922.06	-0.461

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
29-1-17	2,000.00	0	0	0	478.472	Not Full	Yes	1,521.53	-0.461
30-2-13	2,000.00	0	0	0	261.77	Not Full	Yes	1,738.23	-0.463
27-2-04	2,000.00	0	0	0	233.063	Not Full	No	1,766.94	-0.463
29-1-21	2,000.00	0	0	0	517.668	Not Full	No	1,482.33	-0.465
24-4-34	2,000.00	0	0	0	274.632	Not Full	No	1,725.37	-0.465
18-1-08	2,000.00	115	115	0	124.29	Not Full	No	1,875.71	-0.467
27-2-10	2,000.00	0	0	0	188.526	Not Full	No	1,811.47	-0.471
21-4-11	2,000.00	0	0	0	154.895	Not Full	No	1,845.11	-0.472
20-2-46	2,000.00	0	0	0	136.137	Not Full	No	1,863.86	-0.473
29-3-09	2,000.00	265.9	265.9	0	664.093	Not Full	No	1,335.91	-0.473
27-2-11	2,000.00	0	0	0	181.243	Not Full	No	1,818.76	-0.473
20-1-51	2,000.00	0	0	0	119.007	Not Full	No	1,880.99	-0.473
28-3-12	2,000.00	0	0	0	266.942	Not Full	No	1,733.06	-0.474
29-3-11	2,000.00	0	0	0	609.241	Not Full	No	1,390.76	-0.476
21-4-19	2,000.00	0	0	0	177.209	Not Full	No	1,822.79	-0.478
20-2-04	2,000.00	14.8	14.8	0	132.872	Not Full	No	1,867.13	-0.478
29-3-14	2,000.00	0	0	0	550.685	Not Full	No	1,449.32	-0.482
27-2-12	2,000.00	0	0	0	175.283	Not Full	No	1,824.72	-0.483
21-4-07	2,000.00	0	0	0	138.781	Not Full	No	1,861.22	-0.485
29-3-10	2,000.00	0	0	0	646.231	Not Full	No	1,353.77	-0.486
28-1-29	2,000.00	0	0	0	204.638	Not Full	No	1,795.36	-0.488
21-4-18	2,000.00	0	0	0	168.507	Not Full	No	1,831.49	-0.49
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-4-50	2,000.00	0	0	0	204.673	Not Full	No	1,795.33	-0.494
27-2-01	2,000.00	0	0	0	224.801	Not Full	No	1,775.20	-0.496
19-2-40	2,000.00	0	0	0	181.961	Not Full	No	1,818.04	-0.496
19-1-21	2,000.00	15.6	15.6	0	181.371	Not Full	Yes	1,818.63	-0.496
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
19-4-11	2,000.00	42.6	42.6	0	206.57	Not Full	No	1,793.43	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
29-3-13	2,000.00	0	0	0	579.169	Not Full	No	1,420.83	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
20-2-34	2,000.00	51.5	51.5	0	153.751	Not Full	Yes	1,846.25	-0.499
19-4-08	2,000.00	0	0	0	194.167	Not Full	No	1,805.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5
21-2-21	2,000.00	23.2	23.2	0	63.476	Not Full	No	1,936.52	-0.501
30-1-14	2,000.00	44.6	44.6	0	312.665	Not Full	No	1,687.34	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
20-3-04	2,000.00	0	0	0	168.597	Not Full	No	1,831.40	-0.503

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
19-4-07	2,000.00	0	0	0	187.163	Not Full	No	1,812.84	-0.504
30-3-05	2,000.00	0	0	0	383.032	Not Full	Yes	1,616.97	-0.505
19-4-09	2,000.00	0	0	0	202.36	Not Full	No	1,797.64	-0.507
30-1-06	2,000.00	0	0	0	347.06	Not Full	No	1,652.94	-0.507
30-1-07	2,000.00	0	0	0	349.159	Not Full	No	1,650.84	-0.508
19-1-01	2,000.00	0	0	0	145.959	Not Full	No	1,854.04	-0.508
28-4-02	2,000.00	0	0	0	264.088	Not Full	No	1,735.91	-0.508
19-4-06	2,000.00	0	0	0	180.473	Not Full	No	1,819.53	-0.514
21-3-12	2,000.00	0	0	0	120.086	Not Full	Yes	1,879.91	-0.514
20-3-15	2,000.00	0	0	0	172.536	Not Full	No	1,827.46	-0.514
30-2-01	2,000.00	0	0	0	350.752	Not Full	Yes	1,649.25	-0.514
30-1-16	2,000.00	0	0	0	287.052	Not Full	No	1,712.95	-0.515
30-1-11	2,000.00	0	0	0	327.251	Not Full	No	1,672.75	-0.515
30-1-05	2,000.00	0	0	0	352.05	Not Full	No	1,647.95	-0.517
20-3-10	2,000.00	0	0	0	177.183	Not Full	No	1,822.82	-0.517
20-2-32	2,000.00	9.3	9.3	0	151.832	Not Full	No	1,848.17	-0.518
17-2-06	2,000.00	0	0	0	87.971	Not Full	No	1,912.03	-0.519
30-1-19	2,000.00	0	0	0	214.398	Not Full	No	1,785.60	-0.519
28-1-02	2,000.00	0	0	0	162.247	Not Full	No	1,837.75	-0.52
17-2-07	2,000.00	0	0	0	87.368	Not Full	No	1,912.63	-0.522
20-1-34	2,000.00	10.1	10.1	0	117.877	Not Full	No	1,882.12	-0.523
20-3-07	2,000.00	0	0	0	179.461	Not Full	No	1,820.54	-0.526
17-2-05	2,000.00	0	0	0	89.274	Not Full	No	1,910.73	-0.526
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
19-3-46	2,000.00	0	0	0	247.7	Not Full	No	1,752.30	-0.529
19-3-47	2,000.00	32.3	32.3	0	248.906	Not Full	No	1,751.09	-0.529
19-1-12	2,000.00	56.8	56.8	0	168.838	Not Full	No	1,831.16	-0.529
20-2-38	2,000.00	0	0	0	156.42	Not Full	No	1,843.58	-0.53
17-2-10	2,000.00	0	0	0	76.768	Not Full	Yes	1,923.23	-0.532
28-3-14	2,000.00	0	0	0	278.914	Not Full	No	1,721.09	-0.532
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536
19-1-38	2,000.00	0	0	0	179.631	Not Full	No	1,820.37	-0.536
28-1-04	2,000.00	0	0	0	201.031	Not Full	No	1,798.97	-0.536
17-2-08	2,000.00	0	0	0	85.574	Not Full	No	1,914.43	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536
30-1-03	2,000.00	0	0	0	368.431	Not Full	No	1,631.57	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
20-3-11	2,000.00	27.6	27.6	0	140.638	Not Full	No	1,859.36	-0.539
30-1-08	2,000.00	0	0	0	333.527	Not Full	No	1,666.47	-0.54
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
20-3-08	2,000.00	17.6	17.6	0	174.258	Not Full	No	1,825.74	-0.542
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
20-1-30	2,000.00	10.1	10.1	0	116.957	Not Full	No	1,883.04	-0.543

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
17-3-04	2,000.00	0	0	0	90.557	Not Full	Yes	1,909.44	-0.543
30-4-03	2,000.00	96.1	96.1	0	459.922	Not Full	No	1,540.08	-0.544
19-1-20	2,000.00	0	0	0	181.222	Not Full	No	1,818.78	-0.544
28-1-14	2,000.00	0	0	0	256.652	Not Full	No	1,743.35	-0.545
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
30-3-01	2,000.00	0	0	0	363.656	Not Full	No	1,636.34	-0.551
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
30-2-02	2,000.00	0	0	0	357.425	Not Full	No	1,642.58	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
19-4-13	2,000.00	0	0	0	211.814	Not Full	No	1,788.19	-0.552
30-3-03	2,000.00	0	0	0	376.113	Not Full	No	1,623.89	-0.553
28-4-04	2,000.00	91	91	0	414.011	Not Full	No	1,585.99	-0.556
19-1-19	2,000.00	0	0	0	176.411	Not Full	No	1,823.59	-0.556
19-1-18	2,000.00	0	0	0	174.611	Not Full	No	1,825.39	-0.556
30-4-01	2,000.00	0	0	0	395.51	Not Full	No	1,604.49	-0.556
30-3-02	2,000.00	0	0	0	369.88	Not Full	No	1,630.12	-0.556
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
28-1-03	2,000.00	0	0	0	188.009	Not Full	No	1,811.99	-0.557
28-3-15	2,000.00	0	0	0	295.689	Not Full	No	1,704.31	-0.558
20-1-39	2,000.00	9.3	9.3	0	119.542	Not Full	No	1,880.46	-0.558
30-2-18	2,000.00	0	0	0	289.325	Not Full	No	1,710.68	-0.559
30-3-04	2,000.00	0	0	0	382.337	Not Full	No	1,617.66	-0.56
19-4-18	2,000.00	0	0	0	220.907	Not Full	No	1,779.09	-0.56
19-4-12	2,000.00	0	0	0	209.007	Not Full	No	1,790.99	-0.56
30-4-02	2,000.00	0	0	0	437.106	Not Full	No	1,562.89	-0.56
30-2-17	2,000.00	0	0	0	286.973	Not Full	No	1,713.03	-0.561
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
20-1-49	2,000.00	0	0	0	128.167	Not Full	No	1,871.83	-0.563
20-1-50	2,000.00	0	0	0	123.536	Not Full	No	1,876.46	-0.564
28-3-17	2,000.00	0	0	0	340.033	Not Full	No	1,659.97	-0.564
28-4-03	2,000.00	0	0	0	383.099	Not Full	No	1,616.90	-0.567
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
19-3-43	2,000.00	0	0	0	235.546	Not Full	No	1,764.45	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
30-2-32	2,000.00	0	0	0	277.662	Not Full	No	1,722.34	-0.572
19-4-17	2,000.00	0	0	0	216.693	Not Full	No	1,783.31	-0.574

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
19-1-17	2,000.00	0	0	0	168.092	Not Full	No	1,831.91	-0.575
30-3-06	2,000.00	0	0	0	405.422	Not Full	No	1,594.58	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
29-1-28	2,000.00	0	0	0	215.153	Not Full	No	1,784.85	-0.581
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
19-3-44	2,000.00	0	0	0	246.955	Not Full	No	1,753.05	-0.581
17-2-04	2,000.00	0	0	0	106.818	Not Full	No	1,893.18	-0.582
19-3-34	2,000.00	0	0	0	230.644	Not Full	No	1,769.36	-0.582
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
19-4-42	2,000.00	0	0	0	186.948	Not Full	No	1,813.05	-0.585
20-4-07	2,000.00	0	0	0	122.614	Not Full	No	1,877.39	-0.586
29-1-20	2,000.00	0	0	0	515.746	Not Full	No	1,484.25	-0.587
28-2-26	2,000.00	0	0	0	175.339	Not Full	No	1,824.66	-0.587
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
17-3-01	2,000.00	0	0	0	104.109	Not Full	No	1,895.89	-0.591
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
30-2-23	2,000.00	179.8	179.8	0	303.211	Not Full	No	1,696.79	-0.592
20-4-06	2,000.00	0	0	0	121.105	Not Full	No	1,878.90	-0.595
30-3-07	2,000.00	48.1	48.1	0	430.231	Not Full	No	1,569.77	-0.595
19-1-37	2,000.00	0	0	0	177.97	Not Full	No	1,822.03	-0.596
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
18-1-18	2,000.00	0	0	0	112.325	Not Full	No	1,887.68	-0.599
19-3-33	2,000.00	0	0	0	225.737	Not Full	No	1,774.26	-0.6
29-1-18	2,000.00	0	0	0	483.333	Not Full	No	1,516.67	-0.6
17-2-16	2,000.00	0	0	0	111.081	Not Full	Yes	1,888.92	-0.602
28-2-10	2,000.00	0	0	0	217.134	Not Full	No	1,782.87	-0.603
20-1-38	2,000.00	0	0	0	118.695	Not Full	No	1,881.31	-0.605
30-2-16	2,000.00	0	0	0	286.528	Not Full	No	1,713.47	-0.605
18-1-04	2,000.00	0	0	0	134.295	Not Full	Yes	1,865.71	-0.605
20-4-42	2,000.00	0	0	0	124.093	Not Full	Yes	1,875.91	-0.607
17-2-18	2,000.00	0	0	0	108.06	Not Full	Yes	1,891.94	-0.613
19-1-26	2,000.00	0	0	0	169.185	Not Full	No	1,830.82	-0.615
30-2-15	2,000.00	0	0	0	282.065	Not Full	No	1,717.94	-0.618
20-4-17	2,000.00	87.4	87.4	0	206.013	Not Full	No	1,793.99	-0.62
19-1-13	2,000.00	0	0	0	149.546	Not Full	No	1,850.45	-0.62
19-1-14	2,000.00	0	0	0	153.645	Not Full	No	1,846.36	-0.622
20-2-21	2,000.00	0	0	0	139.688	Not Full	No	1,860.31	-0.622
18-1-07	2,000.00	0	0	0	141.278	Not Full	Yes	1,858.72	-0.622

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-2-20	2,000.00	0	0	0	296.66	Not Full	No	1,703.34	-0.623
30-2-19	2,000.00	0	0	0	291.84	Not Full	No	1,708.16	-0.623
17-2-23	2,000.00	0	0	0	96.329	Not Full	No	1,903.67	-0.624
19-1-15	2,000.00	5.1	5.1	0	159.142	Not Full	No	1,840.86	-0.624
17-2-30	2,000.00	0	0	0	79.858	Not Full	No	1,920.14	-0.625
17-2-24	2,000.00	0	0	0	94.088	Not Full	No	1,905.91	-0.626
17-2-25	2,000.00	0	0	0	91.808	Not Full	No	1,908.19	-0.626
17-2-29	2,000.00	0	0	0	81.657	Not Full	No	1,918.34	-0.626
17-2-22	2,000.00	0	0	0	98.647	Not Full	No	1,901.35	-0.627
17-4-01	2,000.00	10.5	10.5	0	151.872	Not Full	No	1,848.13	-0.628
17-2-26	2,000.00	0	0	0	89.155	Not Full	No	1,910.85	-0.628
30-2-21	2,000.00	0	0	0	301.102	Not Full	No	1,698.90	-0.631
29-1-16	2,000.00	0	0	0	476.499	Not Full	No	1,523.50	-0.634
18-1-05	2,000.00	0	0	0	135.464	Not Full	No	1,864.54	-0.636
19-1-22	2,000.00	0	0	0	166.164	Not Full	No	1,833.84	-0.636
17-2-21	2,000.00	0	0	0	100.966	Not Full	No	1,899.03	-0.637
17-2-03	2,000.00	0	0	0	109.96	Not Full	No	1,890.04	-0.64
20-4-18	2,000.00	0	0	0	207.193	Not Full	No	1,792.81	-0.641
17-3-02	2,000.00	10.2	10.2	0	101.357	Not Full	No	1,898.64	-0.643
17-2-19	2,000.00	0	0	0	107.189	Not Full	No	1,892.81	-0.645
17-2-09	2,000.00	0	0	0	83.655	Not Full	No	1,916.35	-0.645
19-1-11	2,000.00	0	0	0	167.188	Not Full	Yes	1,832.81	-0.645
17-2-02	2,000.00	0	0	0	115.753	Not Full	No	1,884.25	-0.647
17-2-27	2,000.00	0	0	0	86.956	Not Full	No	1,913.04	-0.647
17-2-32	2,000.00	0	0	0	75.536	Not Full	No	1,924.46	-0.647
17-2-17	2,000.00	0	0	0	109.886	Not Full	No	1,890.11	-0.647
17-2-28	2,000.00	0	0	0	84.295	Not Full	No	1,915.71	-0.648
17-2-01	2,000.00	0	0	0	121.651	Not Full	No	1,878.35	-0.649
29-1-06	2,000.00	0	0	0	437.482	Not Full	No	1,562.52	-0.651
30-2-14	2,000.00	0	0	0	276.442	Not Full	No	1,723.56	-0.651
17-2-20	2,000.00	0	0	0	103.919	Not Full	No	1,896.08	-0.655
18-1-03	2,000.00	0	0	0	132.443	Not Full	No	1,867.56	-0.657
18-1-01	2,000.00	0	0	0	124.642	Not Full	No	1,875.36	-0.658
17-2-33	2,000.00	0	0	0	77.775	Not Full	No	1,922.23	-0.658
19-2-46	2,000.00	0	0	0	176.172	Not Full	No	1,823.83	-0.661
18-1-19	2,000.00	0	0	0	111.67	Not Full	No	1,888.33	-0.664
17-3-03	2,000.00	0	0	0	95.536	Not Full	No	1,904.46	-0.664
29-1-02	2,000.00	0	0	0	254.168	Not Full	No	1,745.83	-0.666
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-35	2,000.00	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
19-1-34	2,000.00	0	0	0	194.3	Not Full	No	1,805.70	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
19-1-36	2,000.00	0	0	0	202.81	Not Full	No	1,797.19	-0.667
18-1-21	2,000.00	0	0	0	128.732	Not Full	No	1,871.27	-0.668
17-2-31	2,000.00	0	0	0	76.311	Not Full	No	1,923.69	-0.672
18-1-06	2,000.00	0	0	0	138.926	Not Full	No	1,861.07	-0.674
19-1-05	2,000.00	0	0	0	153.459	Not Full	Yes	1,846.54	-0.675
29-1-07	2,000.00	0	0	0	467.759	Not Full	No	1,532.24	-0.675
19-1-04	2,000.00	0	0	0	151.858	Not Full	No	1,848.14	-0.675
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
19-1-07	2,000.00	0	0	0	157.651	Not Full	No	1,842.35	-0.683
20-4-13	2,000.00	0	0	0	127.916	Not Full	No	1,872.08	-0.684
19-1-03	2,000.00	0	0	0	150.248	Not Full	No	1,849.75	-0.685
20-4-12	2,000.00	0	0	0	125.914	Not Full	No	1,874.09	-0.686
29-1-03	2,000.00	0	0	0	353.343	Not Full	No	1,646.66	-0.691
19-1-02	2,000.00	0	0	0	148.142	Not Full	No	1,851.86	-0.691
29-1-19	2,000.00	0	0	0	507.241	Not Full	No	1,492.76	-0.692
18-1-02	2,000.00	0	0	0	127.506	Not Full	No	1,872.49	-0.694
21-4-02	2,000.00	0	0	0	131.795	Not Full	No	1,868.21	-0.705
19-1-08	2,000.00	0	0	0	161.627	Not Full	No	1,838.37	-0.706
19-1-06	2,000.00	0	0	0	157.02	Not Full	No	1,842.98	-0.714
29-1-05	2,000.00	0	0	0	420.619	Not Full	No	1,579.38	-0.715
19-1-10	2,000.00	0	0	0	166.418	Not Full	No	1,833.58	-0.716
18-4-01	2,000.00	0	0	0	141.784	Not Full	No	1,858.22	-0.716
18-4-04	2,000.00	0	0	0	153.383	Not Full	No	1,846.62	-0.717
18-4-03	2,000.00	0	0	0	150.08	Not Full	No	1,849.92	-0.72
21-2-22	2,000.00	0	0	0	77.167	Not Full	No	1,922.83	-0.733
18-3-32	2,000.00	87.6	87.6	0	150.257	Not Full	No	1,849.74	-0.733
21-2-01	2,000.00	0	0	0	97.042	Not Full	No	1,902.96	-0.738
21-2-02	2,000.00	0	0	0	90.902	Not Full	No	1,909.10	-0.738
G&OADD1	2,000.00	4.9	4.9	0	127.498	Not Full	No	1,872.50	-0.742
20-1-07	2,000.00	0	0	0	113.358	Not Full	No	1,886.64	-0.742
21-3-11	2,000.00	5.5	5.5	0	113.957	Not Full	No	1,886.04	-0.743

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-4-04	2,000.00	0	0	0	147.454	Not Full	Yes	1,852.55	-0.746
18-3-01	2,000.00	0	0	0	153.85	Not Full	No	1,846.15	-0.75
21-3-29	2,000.00	0	0	0	116.391	Not Full	No	1,883.61	-0.752
21-3-31	2,000.00	0	0	0	110.982	Not Full	No	1,889.02	-0.758
18-3-35	2,000.00	0	0	0	144.331	Not Full	No	1,855.67	-0.759
21-3-17	2,000.00	0	0	0	119.324	Not Full	No	1,880.68	-0.766
28-1-11	2,000.00	0	0	0	217.734	Not Full	No	1,782.27	-0.766
18-3-38	2,000.00	0	0	0	144.971	Not Full	Yes	1,855.03	-0.769
20-2-29	2,000.00	8.3	8.3	0	149.479	Not Full	No	1,850.52	-0.771
20-2-28	2,000.00	0	0	0	147.539	Not Full	No	1,852.46	-0.771
18-4-02	2,000.00	0	0	0	145.528	Not Full	No	1,854.47	-0.772
18-3-36	2,000.00	0	0	0	143.678	Not Full	No	1,856.32	-0.772
28-2-09	2,000.00	0	0	0	221.341	Not Full	No	1,778.66	-0.773
28-4-07	2,000.00	28.4	28.4	0	238.16	Not Full	No	1,761.84	-0.773
24-1-15	2,000.00	0	0	0	251.627	Not Full	No	1,748.37	-0.773
21-3-30	2,000.00	0	0	0	142.21	Not Full	No	1,857.79	-0.774
18-3-10	2,000.00	164.7	164.7	0	162.434	Not Full	No	1,837.57	-0.776
21-3-43	2,000.00	0	0	0	151.457	Not Full	No	1,848.54	-0.777
24-1-16	2,000.00	253.5	253.5	0	261.687	Not Full	No	1,738.31	-0.793
20-4-15	2,000.00	0	0	0	139.503	Not Full	No	1,860.50	-0.797
18-3-37	2,000.00	0	0	0	142.751	Not Full	No	1,857.25	-0.799
28-1-10	2,000.00	0	0	0	216.588	Not Full	No	1,783.41	-0.812
19-2-53	2,000.00	0	0	0	170.984	Not Full	No	1,829.02	-0.826
20-4-16	2,000.00	0	0	0	186.368	Not Full	No	1,813.63	-0.832
19-1-16	2,000.00	0	0	0	159.401	Not Full	No	1,840.60	-0.849
18-3-33	2,000.00	0	0	0	149.396	Not Full	No	1,850.60	-0.864
28-1-09	2,000.00	0	0	0	214.028	Not Full	No	1,785.97	-0.872
21-3-02	2,000.00	0	0	0	69.173	Not Full	No	1,930.83	-0.877
20-2-08	2,000.00	0	0	0	137.314	Not Full	No	1,862.69	-0.886
20-2-07	2,000.00	0	0	0	135.913	Not Full	No	1,864.09	-0.887
20-2-06	2,000.00	0	0	0	134.513	Not Full	No	1,865.49	-0.887
20-2-09	2,000.00	0	0	0	138.112	Not Full	No	1,861.89	-0.888
20-2-10	2,000.00	0	0	0	139.507	Not Full	No	1,860.49	-0.893
21-3-05	2,000.00	8.3	8.3	0	104.253	Not Full	No	1,895.75	-0.897
28-1-13	2,000.00	0	0	0	239.402	Not Full	No	1,760.60	-0.898
21-4-03	2,000.00	0	0	0	144.674	Not Full	No	1,855.33	-0.926
21-3-10	2,000.00	0	0	0	107.565	Not Full	No	1,892.44	-0.935
21-3-03	2,000.00	0	0	0	75.272	Not Full	No	1,924.73	-0.978
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	100.012	Not Full	No	1,899.99	-1.038
21-1-02	2,000.00	0	0	0	49.517	Not Full	No	1,950.48	-1.083
21-1-09	2,000.00	0	0	0	56.26	Not Full	No	1,943.74	-1.12
21-1-10	2,000.00	58	58	0	58.86	Not Full	No	1,941.14	-1.12
21-1-08	2,000.00	0	0	0	54.43	Not Full	No	1,945.57	-1.12

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-08	2,000.00	0	0	0	60.808	Not Full	No	1,939.19	-1.142
21-2-07	2,000.00	0	0	0	59.508	Not Full	No	1,940.49	-1.142
21-2-11	2,000.00	0	0	0	65.72	Not Full	No	1,934.28	-1.15
21-3-01	2,000.00	0	0	0	67.83	Not Full	No	1,932.17	-1.15
21-3-28	2,000.00	0	0	0	108.138	Not Full	Yes	1,891.86	-1.302
21-1-06	2,000.00	0	0	0	49.29	Not Full	No	1,950.71	-1.31
21-3-07	2,000.00	10.1	10.1	0	111.183	Not Full	No	1,888.82	-1.327
21-3-08	2,000.00	0	0	0	108.823	Not Full	No	1,891.18	-1.327
21-3-13	2,000.00	0	0	0	110.743	Not Full	No	1,889.26	-1.327
21-3-09	2,000.00	0	0	0	108.643	Not Full	No	1,891.36	-1.327
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337
WITH Carlsborg Flows									
20-1-06	2000	24.5	24.5	0	108.776	Not Full	No	1891.22	11.149
27-2-05	2000	12.7	12.7	0	235.988	Not Full	No	1764.01	1.511
20-1-19	2,000.00	0	0	0	115.841	Not Full	Yes	1,884.16	0.991
17-2-13	2,000.00	0	0	0	75.259	Not Full	No	1,924.74	0.839
20-1-20	2,000.00	9.9	9.9	0	115.943	Not Full	No	1,884.06	0.743
19-4-22	2,000.00	0	0	0	185.646	Not Full	Yes	1,814.35	0.579
17-2-14	2,000.00	0	0	0	75.201	Not Full	Yes	1,924.80	0.481
21-4-20	2,000.00	0	0	0	178.097	Not Full	Yes	1,821.90	0.391
19-4-25	2,000.00	0	0	0	201.014	Not Full	Yes	1,798.99	0.348
20-1-25	2,000.00	0	0	0	116.045	Not Full	No	1,883.96	0.345
20-1-13	2,000.00	0	0	0	114.677	Not Full	No	1,885.32	0.327
17-2-12	2,000.00	0	0	0	75.588	Not Full	No	1,924.41	0.168
20-3-01	2,000.00	0	0	0	167.855	Not Full	Yes	1,832.15	0.055
19-2-44	2,000.00	0	0	0	176.71	Not Full	Yes	1,823.29	-0.157
30-2-25	2,000.00	0	0	0	258.755	Not Full	No	1,741.25	-0.172
19-4-23	2,000.00	0	0	0	192.794	Not Full	No	1,807.21	-0.173
30-2-12	2,000.00	37.5	37.5	0	261.034	Not Full	No	1,738.97	-0.173
19-4-24	2,000.00	0	0	0	200.293	Not Full	No	1,799.71	-0.174
30-2-11	2,000.00	0	0	0	260.023	Not Full	No	1,739.98	-0.174
19-4-26	2,000.00	0	0	0	205.684	Not Full	No	1,794.32	-0.183
20-3-06	2,000.00	0	0	0	170.934	Not Full	Yes	1,829.07	-0.199
19-4-32	2,000.00	0	0	0	212.965	Not Full	No	1,787.04	-0.201
19-4-27	2,000.00	0	0	0	209.564	Not Full	No	1,790.44	-0.203
19-4-33	2,000.00	35.3	35.3	0	215.758	Not Full	No	1,784.24	-0.208
19-4-34	2,000.00	0	0	0	219.128	Not Full	No	1,780.87	-0.238
20-1-26	2,000.00	10.1	10.1	0	116.147	Not Full	No	1,883.85	-0.253
19-4-40	2,000.00	2.6	2.6	0	225.202	Not Full	No	1,774.80	-0.264
19-4-47	2,000.00	0	0	0	187.587	Not Full	No	1,812.41	-0.279
19-4-46	2,000.00	0	0	0	187.337	Not Full	No	1,812.66	-0.28
G&OADD2	2,000.00	0	0	0	232.586	Not Full	No	1,767.41	-0.281
20-2-40	2,000.00	0	0	0	164.807	Not Full	Yes	1,835.19	-0.293

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-1-20	2,000.00	0	0	0	185.932	Not Full	Yes	1,814.07	-0.305
19-1-30	2,000.00	0	0	0	190.76	Not Full	No	1,809.24	-0.307
28-1-31	2,000.00	0	0	0	209.367	Not Full	Yes	1,790.63	-0.31
29-3-16	2,000.00	0	0	0	524.152	Not Full	No	1,475.85	-0.315
19-2-54	2,000.00	0	0	0	200.352	Not Full	No	1,799.65	-0.315
21-4-24	2,000.00	0	0	0	179.291	Not Full	Yes	1,820.71	-0.316
19-2-15	2,000.00	16.7	16.7	0	207.079	Not Full	No	1,792.92	-0.318
19-2-16	2,000.00	0	0	0	203.139	Not Full	No	1,796.86	-0.318
19-2-17	2,000.00	0	0	0	197.449	Not Full	No	1,802.55	-0.318
17-2-11	2,000.00	0	0	0	75.701	Not Full	No	1,924.30	-0.319
27-2-21	2,000.00	0	0	0	192.536	Not Full	No	1,807.46	-0.321
21-4-05	2,000.00	0	0	0	132.556	Not Full	Yes	1,867.44	-0.321
19-2-59	2,000.00	0	0	0	199.334	Not Full	No	1,800.67	-0.322
27-2-18	2,000.00	0	0	0	189.524	Not Full	Yes	1,810.48	-0.323
27-2-20	2,000.00	0	0	0	191.803	Not Full	No	1,808.20	-0.323
27-2-22	2,000.00	0	0	0	193.303	Not Full	No	1,806.70	-0.324
27-2-23	2,000.00	180.8	180.8	0	194.003	Not Full	No	1,806.00	-0.324
19-2-12	2,000.00	0	0	0	210.248	Not Full	No	1,789.75	-0.328
24-1-26	2,000.00	0	0	0	228.357	Not Full	No	1,771.64	-0.329
24-1-05	2,000.00	0	0	0	231.457	Not Full	No	1,768.54	-0.33
24-1-02	2,000.00	0	0	0	238.287	Not Full	No	1,761.71	-0.33
24-1-07	2,000.00	0	0	0	225.097	Not Full	No	1,774.90	-0.33
24-1-01	2,000.00	0	0	0	241.357	Not Full	No	1,758.64	-0.33
19-2-56	2,000.00	0	0	0	217.696	Not Full	No	1,782.30	-0.331
19-2-10	2,000.00	0	0	0	213.896	Not Full	No	1,786.10	-0.331
19-2-11	2,000.00	0	0	0	212.746	Not Full	No	1,787.25	-0.331
24-2-54	2,000.00	0	0	0	221.176	Not Full	No	1,778.82	-0.331
24-1-14	2,000.00	0	0	0	243.235	Not Full	No	1,756.77	-0.331
19-2-14	2,000.00	0	0	0	208.535	Not Full	No	1,791.47	-0.331
24-1-08	2,000.00	0	0	0	222.135	Not Full	No	1,777.87	-0.332
24-1-03	2,000.00	0	0	0	235.355	Not Full	No	1,764.65	-0.332
24-1-13	2,000.00	0	0	0	233.655	Not Full	No	1,766.35	-0.332
24-1-06	2,000.00	0	0	0	225.935	Not Full	No	1,774.07	-0.332
19-3-26	2,000.00	0	0	0	251.352	Not Full	No	1,748.65	-0.335
19-1-29	2,000.00	6.2	6.2	0	185.53	Not Full	No	1,814.47	-0.337
19-1-28	2,000.00	0	0	0	180.826	Not Full	No	1,819.17	-0.341
19-4-49	2,000.00	0	0	0	190.013	Not Full	Yes	1,809.99	-0.353
30-1-41	2,000.00	0	0	0	215.983	Not Full	Yes	1,784.02	-0.353
19-4-51	2,000.00	0	0	0	239.903	Not Full	No	1,760.10	-0.364
21-4-09	2,000.00	0	0	0	141.893	Not Full	No	1,858.11	-0.374
28-1-12	2,000.00	38.4	38.4	0	218.885	Not Full	Yes	1,781.12	-0.381
27-2-02	2,000.00	0	0	0	225.915	Not Full	No	1,774.09	-0.382
28-1-30	2,000.00	0	0	0	207.605	Not Full	No	1,792.40	-0.382
21-4-21	2,000.00	0	0	0	178.682	Not Full	No	1,821.32	-0.385

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-3-27	2,000.00	0	0	0	257.741	Not Full	No	1,742.26	-0.386
21-4-10	2,000.00	0	0	0	155.279	Not Full	No	1,844.72	-0.388
21-4-06	2,000.00	0	0	0	135.699	Not Full	No	1,864.30	-0.388
19-2-62	2,000.00	0	0	0	183.908	Not Full	No	1,816.09	-0.389
19-4-48	2,000.00	0	0	0	188.977	Not Full	No	1,811.02	-0.39
18-4-25	2,000.00	0	0	0	130.777	Not Full	No	1,869.22	-0.39
18-4-23	2,000.00	0	0	0	124.574	Not Full	No	1,875.43	-0.393
18-4-24	2,000.00	0	0	0	127.772	Not Full	No	1,872.23	-0.395
19-1-27	2,000.00	0	0	0	177.87	Not Full	No	1,822.13	-0.397
27-2-03	2,000.00	0	0	0	227.5	Not Full	No	1,772.50	-0.397
18-1-11	2,000.00	0	0	0	113.117	Not Full	Yes	1,886.88	-0.409
19-2-71	2,000.00	94.1	94.1	0	184.565	Not Full	No	1,815.44	-0.412
18-4-05	2,000.00	0	0	0	138.253	Not Full	No	1,861.75	-0.413
27-2-19	2,000.00	0	0	0	190.452	Not Full	No	1,809.55	-0.414
19-4-44	2,000.00	0	0	0	247.252	Not Full	No	1,752.75	-0.414
29-3-15	2,000.00	0	0	0	530.252	Not Full	No	1,469.75	-0.415
18-4-26	2,000.00	0	0	0	135.149	Not Full	No	1,864.85	-0.418
29-3-12	2,000.00	0	0	0	588.298	Not Full	No	1,411.70	-0.419
28-1-01	2,000.00	0	0	0	149.948	Not Full	No	1,850.05	-0.419
18-4-27	2,000.00	108.3	108.3	0	142.546	Not Full	No	1,857.45	-0.421
21-4-08	2,000.00	0	0	0	141.196	Not Full	No	1,858.80	-0.421
19-3-31	2,000.00	0	0	0	266.227	Not Full	No	1,733.77	-0.429
20-2-41	2,000.00	0	0	0	166.37	Not Full	No	1,833.63	-0.43
28-1-19	2,000.00	0	0	0	185.456	Not Full	No	1,814.54	-0.431
30-1-18	2,000.00	0	0	0	242.835	Not Full	No	1,757.17	-0.431
19-3-32	2,000.00	0	0	0	267.815	Not Full	No	1,732.19	-0.431
19-2-39	2,000.00	0	0	0	182.945	Not Full	No	1,817.06	-0.431
19-3-28	2,000.00	0	0	0	262.705	Not Full	No	1,737.30	-0.432
24-4-26	2,000.00	0	0	0	270.394	Not Full	No	1,729.61	-0.432
24-4-27	2,000.00	0	0	0	269.474	Not Full	No	1,730.53	-0.432
24-4-25	2,000.00	0	0	0	271.994	Not Full	No	1,728.01	-0.432
24-4-24	2,000.00	0	0	0	273.184	Not Full	Yes	1,726.82	-0.432
20-2-39	2,000.00	0	0	0	163.067	Not Full	No	1,836.93	-0.433
24-4-39	2,000.00	91.2	91.2	0	277.432	Not Full	No	1,722.57	-0.435
29-2-43	2,000.00	154.7	154.7	0	221.685	Not Full	No	1,778.32	-0.442
30-1-20	2,000.00	0	0	0	216.794	Not Full	No	1,783.21	-0.442
30-1-04	2,000.00	0	0	0	354.223	Not Full	Yes	1,645.78	-0.444
20-2-42	2,000.00	18.5	18.5	0	167.152	Not Full	No	1,832.85	-0.448
19-3-30	2,000.00	0	0	0	265.808	Not Full	No	1,734.19	-0.449
18-1-10	2,000.00	0	0	0	116.127	Not Full	No	1,883.87	-0.45
30-1-45	2,000.00	0	0	0	369.216	Not Full	Yes	1,630.78	-0.45
21-2-06	2,000.00	0	0	0	56.25	Not Full	Yes	1,943.75	-0.45
29-3-17	2,000.00	0	0	0	520.981	Not Full	Yes	1,479.02	-0.453
19-4-45	2,000.00	0	0	0	236.914	Not Full	No	1,763.09	-0.453

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-1-17	2,000.00	0	0	0	252.313	Not Full	No	1,747.69	-0.454
30-1-15	2,000.00	0	0	0	295.311	Not Full	No	1,704.69	-0.456
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
20-2-43	2,000.00	0	0	0	159.642	Not Full	No	1,840.36	-0.458
18-1-09	2,000.00	0	0	0	119.918	Not Full	No	1,880.08	-0.459
29-3-18	2,000.00	0	0	0	519.373	Not Full	No	1,480.63	-0.46
29-1-17	2,000.00	0	0	0	478.472	Not Full	Yes	1,521.53	-0.461
21-1-01	2,000.00	0	0	0	53.189	Not Full	No	1,946.81	-0.461
30-2-13	2,000.00	0	0	0	261.77	Not Full	Yes	1,738.23	-0.463
27-2-04	2,000.00	0	0	0	233.063	Not Full	No	1,766.94	-0.463
29-1-21	2,000.00	0	0	0	517.668	Not Full	No	1,482.33	-0.465
24-4-34	2,000.00	0	0	0	274.632	Not Full	No	1,725.37	-0.465
18-1-08	2,000.00	115	115	0	124.29	Not Full	No	1,875.71	-0.467
27-2-10	2,000.00	0	0	0	188.526	Not Full	No	1,811.47	-0.471
21-4-11	2,000.00	0	0	0	154.895	Not Full	No	1,845.11	-0.472
29-3-09	2,000.00	265.9	265.9	0	664.093	Not Full	No	1,335.91	-0.473
27-2-11	2,000.00	0	0	0	181.243	Not Full	No	1,818.76	-0.473
28-3-12	2,000.00	0	0	0	266.942	Not Full	No	1,733.06	-0.474
29-3-11	2,000.00	0	0	0	609.241	Not Full	No	1,390.76	-0.476
21-4-19	2,000.00	0	0	0	177.209	Not Full	No	1,822.79	-0.478
29-3-14	2,000.00	0	0	0	550.685	Not Full	No	1,449.32	-0.482
27-2-12	2,000.00	0	0	0	175.283	Not Full	No	1,824.72	-0.483
21-4-07	2,000.00	0	0	0	138.781	Not Full	No	1,861.22	-0.485
29-3-10	2,000.00	0	0	0	646.231	Not Full	No	1,353.77	-0.486
28-1-29	2,000.00	0	0	0	204.638	Not Full	No	1,795.36	-0.488
21-4-18	2,000.00	0	0	0	168.507	Not Full	No	1,831.49	-0.49
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-4-50	2,000.00	0	0	0	204.673	Not Full	No	1,795.33	-0.494
19-2-40	2,000.00	0	0	0	181.961	Not Full	No	1,818.04	-0.496
27-2-01	2,000.00	0	0	0	224.801	Not Full	No	1,775.20	-0.496
19-1-21	2,000.00	15.6	15.6	0	181.371	Not Full	Yes	1,818.63	-0.496
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
19-4-11	2,000.00	42.6	42.6	0	206.57	Not Full	No	1,793.43	-0.497
20-2-05	2,000.00	0	0	0	134.353	Not Full	No	1,865.65	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
29-3-13	2,000.00	0	0	0	579.169	Not Full	No	1,420.83	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
19-4-08	2,000.00	0	0	0	194.167	Not Full	No	1,805.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-21	2,000.00	23.2	23.2	0	63.476	Not Full	No	1,936.52	-0.501
30-1-14	2,000.00	44.6	44.6	0	312.665	Not Full	No	1,687.34	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
20-2-25	2,000.00	7.6	7.6	0	140.508	Not Full	Yes	1,859.49	-0.502
20-3-04	2,000.00	0	0	0	168.597	Not Full	No	1,831.40	-0.503
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
19-4-07	2,000.00	0	0	0	187.163	Not Full	No	1,812.84	-0.504
30-3-05	2,000.00	0	0	0	383.032	Not Full	Yes	1,616.97	-0.505
19-4-09	2,000.00	0	0	0	202.36	Not Full	No	1,797.64	-0.507
30-1-06	2,000.00	0	0	0	347.06	Not Full	No	1,652.94	-0.507
30-1-07	2,000.00	0	0	0	349.159	Not Full	No	1,650.84	-0.508
19-1-01	2,000.00	0	0	0	145.959	Not Full	No	1,854.04	-0.508
28-4-02	2,000.00	0	0	0	264.088	Not Full	No	1,735.91	-0.508
19-4-06	2,000.00	0	0	0	180.473	Not Full	No	1,819.53	-0.514
21-3-12	2,000.00	0	0	0	120.086	Not Full	Yes	1,879.91	-0.514
20-3-15	2,000.00	0	0	0	172.536	Not Full	No	1,827.46	-0.514
30-2-01	2,000.00	0	0	0	350.752	Not Full	Yes	1,649.25	-0.514
30-1-16	2,000.00	0	0	0	287.052	Not Full	No	1,712.95	-0.515
21-2-03	2,000.00	0	0	0	77.885	Not Full	Yes	1,922.12	-0.515
30-1-11	2,000.00	0	0	0	327.251	Not Full	No	1,672.75	-0.515
30-1-05	2,000.00	0	0	0	352.05	Not Full	No	1,647.95	-0.517
20-3-10	2,000.00	0	0	0	177.183	Not Full	No	1,822.82	-0.517
20-1-51	2,000.00	0	0	0	118.963	Not Full	No	1,881.04	-0.517
17-2-06	2,000.00	0	0	0	87.971	Not Full	No	1,912.03	-0.519
30-1-19	2,000.00	0	0	0	214.398	Not Full	No	1,785.60	-0.519
28-1-02	2,000.00	0	0	0	162.247	Not Full	No	1,837.75	-0.52
17-2-07	2,000.00	0	0	0	87.368	Not Full	No	1,912.63	-0.522
20-2-04	2,000.00	14.8	14.8	0	132.828	Not Full	No	1,867.17	-0.522
20-1-34	2,000.00	10.1	10.1	0	117.877	Not Full	No	1,882.12	-0.523
20-2-17	2,000.00	7.6	7.6	0	137.787	Not Full	Yes	1,862.21	-0.523
20-3-07	2,000.00	0	0	0	179.461	Not Full	No	1,820.54	-0.526
17-2-05	2,000.00	0	0	0	89.274	Not Full	No	1,910.73	-0.526
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
19-3-46	2,000.00	0	0	0	247.7	Not Full	No	1,752.30	-0.529
19-3-47	2,000.00	32.3	32.3	0	248.906	Not Full	No	1,751.09	-0.529
19-1-12	2,000.00	56.8	56.8	0	168.838	Not Full	No	1,831.16	-0.529
17-2-10	2,000.00	0	0	0	76.768	Not Full	Yes	1,923.23	-0.532
28-3-14	2,000.00	0	0	0	278.914	Not Full	No	1,721.09	-0.532
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536
19-1-38	2,000.00	0	0	0	179.631	Not Full	No	1,820.37	-0.536
28-1-04	2,000.00	0	0	0	201.031	Not Full	No	1,798.97	-0.536
17-2-08	2,000.00	0	0	0	85.574	Not Full	No	1,914.43	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-1-03	2,000.00	0	0	0	368.431	Not Full	No	1,631.57	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
20-2-46	2,000.00	0	0	0	136.074	Not Full	No	1,863.93	-0.536
20-3-11	2,000.00	27.6	27.6	0	140.638	Not Full	No	1,859.36	-0.539
30-1-08	2,000.00	0	0	0	333.527	Not Full	No	1,666.47	-0.54
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
20-3-08	2,000.00	17.6	17.6	0	174.258	Not Full	No	1,825.74	-0.542
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
20-1-30	2,000.00	10.1	10.1	0	116.957	Not Full	No	1,883.04	-0.543
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
17-3-04	2,000.00	0	0	0	90.557	Not Full	Yes	1,909.44	-0.543
30-4-03	2,000.00	96.1	96.1	0	459.922	Not Full	No	1,540.08	-0.544
19-1-20	2,000.00	0	0	0	181.222	Not Full	No	1,818.78	-0.544
28-1-14	2,000.00	0	0	0	256.652	Not Full	No	1,743.35	-0.545
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
30-3-01	2,000.00	0	0	0	363.656	Not Full	No	1,636.34	-0.551
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
30-2-02	2,000.00	0	0	0	357.425	Not Full	No	1,642.58	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
19-4-13	2,000.00	0	0	0	211.814	Not Full	No	1,788.19	-0.552
30-3-03	2,000.00	0	0	0	376.113	Not Full	No	1,623.89	-0.553
28-4-04	2,000.00	91	91	0	414.011	Not Full	No	1,585.99	-0.556
19-1-19	2,000.00	0	0	0	176.411	Not Full	No	1,823.59	-0.556
19-1-18	2,000.00	0	0	0	174.611	Not Full	No	1,825.39	-0.556
30-4-01	2,000.00	0	0	0	395.51	Not Full	No	1,604.49	-0.556
30-3-02	2,000.00	0	0	0	369.88	Not Full	No	1,630.12	-0.556
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
28-1-03	2,000.00	0	0	0	188.009	Not Full	No	1,811.99	-0.557
28-3-15	2,000.00	0	0	0	295.689	Not Full	No	1,704.31	-0.558
20-1-39	2,000.00	9.3	9.3	0	119.542	Not Full	No	1,880.46	-0.558
30-2-18	2,000.00	0	0	0	289.325	Not Full	No	1,710.68	-0.559
30-3-04	2,000.00	0	0	0	382.337	Not Full	No	1,617.66	-0.56
19-4-18	2,000.00	0	0	0	220.907	Not Full	No	1,779.09	-0.56
19-4-12	2,000.00	0	0	0	209.007	Not Full	No	1,790.99	-0.56
30-4-02	2,000.00	0	0	0	437.106	Not Full	No	1,562.89	-0.56
20-2-34	2,000.00	51.5	51.5	0	153.689	Not Full	Yes	1,846.31	-0.561
30-2-17	2,000.00	0	0	0	286.973	Not Full	No	1,713.03	-0.561

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
28-3-17	2,000.00	0	0	0	340.033	Not Full	No	1,659.97	-0.564
28-4-03	2,000.00	0	0	0	383.099	Not Full	No	1,616.90	-0.567
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
19-3-43	2,000.00	0	0	0	235.546	Not Full	No	1,764.45	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
30-2-32	2,000.00	0	0	0	277.662	Not Full	No	1,722.34	-0.572
19-4-17	2,000.00	0	0	0	216.693	Not Full	No	1,783.31	-0.574
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
19-1-17	2,000.00	0	0	0	168.092	Not Full	No	1,831.91	-0.575
30-3-06	2,000.00	0	0	0	405.422	Not Full	No	1,594.58	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
20-2-32	2,000.00	9.3	9.3	0	151.774	Not Full	No	1,848.23	-0.576
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
29-1-28	2,000.00	0	0	0	215.153	Not Full	No	1,784.85	-0.581
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
19-3-44	2,000.00	0	0	0	246.955	Not Full	No	1,753.05	-0.581
17-2-04	2,000.00	0	0	0	106.818	Not Full	No	1,893.18	-0.582
19-3-34	2,000.00	0	0	0	230.644	Not Full	No	1,769.36	-0.582
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
19-4-42	2,000.00	0	0	0	186.948	Not Full	No	1,813.05	-0.585
20-4-07	2,000.00	0	0	0	122.614	Not Full	No	1,877.39	-0.586
29-1-20	2,000.00	0	0	0	515.746	Not Full	No	1,484.25	-0.587
28-2-26	2,000.00	0	0	0	175.339	Not Full	No	1,824.66	-0.587
20-2-38	2,000.00	0	0	0	156.36	Not Full	No	1,843.64	-0.59
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
17-3-01	2,000.00	0	0	0	104.109	Not Full	No	1,895.89	-0.591
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
30-2-23	2,000.00	179.8	179.8	0	303.211	Not Full	No	1,696.79	-0.592
20-4-06	2,000.00	0	0	0	121.105	Not Full	No	1,878.90	-0.595
30-3-07	2,000.00	48.1	48.1	0	430.231	Not Full	No	1,569.77	-0.595
19-1-37	2,000.00	0	0	0	177.97	Not Full	No	1,822.03	-0.596
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
20-1-49	2,000.00	0	0	0	128.132	Not Full	No	1,871.87	-0.598
18-1-18	2,000.00	0	0	0	112.325	Not Full	No	1,887.68	-0.599
19-3-33	2,000.00	0	0	0	225.737	Not Full	No	1,774.26	-0.6
20-1-50	2,000.00	0	0	0	123.5	Not Full	No	1,876.50	-0.6
29-1-18	2,000.00	0	0	0	483.333	Not Full	No	1,516.67	-0.6
17-2-16	2,000.00	0	0	0	111.081	Not Full	Yes	1,888.92	-0.602
28-2-10	2,000.00	0	0	0	217.134	Not Full	No	1,782.87	-0.603

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-1-38	2,000.00	0	0	0	118.695	Not Full	No	1,881.31	-0.605
30-2-16	2,000.00	0	0	0	286.528	Not Full	No	1,713.47	-0.605
18-1-04	2,000.00	0	0	0	134.295	Not Full	Yes	1,865.71	-0.605
20-4-42	2,000.00	0	0	0	124.093	Not Full	Yes	1,875.91	-0.607
17-2-18	2,000.00	0	0	0	108.06	Not Full	Yes	1,891.94	-0.613
30-2-15	2,000.00	0	0	0	282.065	Not Full	No	1,717.94	-0.618
20-4-17	2,000.00	87.4	87.4	0	206.013	Not Full	No	1,793.99	-0.62
19-1-13	2,000.00	0	0	0	149.546	Not Full	No	1,850.45	-0.62
19-1-14	2,000.00	0	0	0	153.645	Not Full	No	1,846.36	-0.622
18-1-07	2,000.00	0	0	0	141.278	Not Full	Yes	1,858.72	-0.622
30-2-20	2,000.00	0	0	0	296.66	Not Full	No	1,703.34	-0.623
30-2-19	2,000.00	0	0	0	291.84	Not Full	No	1,708.16	-0.623
17-2-23	2,000.00	0	0	0	96.329	Not Full	No	1,903.67	-0.624
19-1-15	2,000.00	5.1	5.1	0	159.142	Not Full	No	1,840.86	-0.624
17-2-30	2,000.00	0	0	0	79.858	Not Full	No	1,920.14	-0.625
17-2-24	2,000.00	0	0	0	94.088	Not Full	No	1,905.91	-0.626
17-2-25	2,000.00	0	0	0	91.808	Not Full	No	1,908.19	-0.626
17-2-29	2,000.00	0	0	0	81.657	Not Full	No	1,918.34	-0.626
17-2-22	2,000.00	0	0	0	98.647	Not Full	No	1,901.35	-0.627
17-4-01	2,000.00	10.5	10.5	0	151.872	Not Full	No	1,848.13	-0.628
17-2-26	2,000.00	0	0	0	89.155	Not Full	No	1,910.85	-0.628
30-2-21	2,000.00	0	0	0	301.102	Not Full	No	1,698.90	-0.631
29-1-16	2,000.00	0	0	0	476.499	Not Full	No	1,523.50	-0.634
18-1-05	2,000.00	0	0	0	135.464	Not Full	No	1,864.54	-0.636
17-2-21	2,000.00	0	0	0	100.966	Not Full	No	1,899.03	-0.637
17-2-03	2,000.00	0	0	0	109.96	Not Full	No	1,890.04	-0.64
20-4-18	2,000.00	0	0	0	207.193	Not Full	No	1,792.81	-0.641
17-3-02	2,000.00	10.2	10.2	0	101.357	Not Full	No	1,898.64	-0.643
17-2-19	2,000.00	0	0	0	107.189	Not Full	No	1,892.81	-0.645
17-2-09	2,000.00	0	0	0	83.655	Not Full	No	1,916.35	-0.645
19-1-11	2,000.00	0	0	0	167.188	Not Full	Yes	1,832.81	-0.645
17-2-02	2,000.00	0	0	0	115.753	Not Full	No	1,884.25	-0.647
17-2-27	2,000.00	0	0	0	86.956	Not Full	No	1,913.04	-0.647
17-2-32	2,000.00	0	0	0	75.536	Not Full	No	1,924.46	-0.647
17-2-17	2,000.00	0	0	0	109.886	Not Full	No	1,890.11	-0.647
17-2-28	2,000.00	0	0	0	84.295	Not Full	No	1,915.71	-0.648
17-2-01	2,000.00	0	0	0	121.651	Not Full	No	1,878.35	-0.649
29-1-06	2,000.00	0	0	0	437.482	Not Full	No	1,562.52	-0.651
30-2-14	2,000.00	0	0	0	276.442	Not Full	No	1,723.56	-0.651
17-2-20	2,000.00	0	0	0	103.919	Not Full	No	1,896.08	-0.655
18-1-03	2,000.00	0	0	0	132.443	Not Full	No	1,867.56	-0.657
18-1-01	2,000.00	0	0	0	124.642	Not Full	No	1,875.36	-0.658
17-2-33	2,000.00	0	0	0	77.775	Not Full	No	1,922.23	-0.658
19-2-46	2,000.00	0	0	0	176.172	Not Full	No	1,823.83	-0.661

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
18-1-19	2,000.00	0	0	0	111.67	Not Full	No	1,888.33	-0.664
17-3-03	2,000.00	0	0	0	95.536	Not Full	No	1,904.46	-0.664
29-1-02	2,000.00	0	0	0	254.168	Not Full	No	1,745.83	-0.666
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
19-1-34	2,000.00	0	0	0	194.3	Not Full	No	1,805.70	-0.667
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
19-1-36	2,000.00	0	0	0	202.81	Not Full	No	1,797.19	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
19-1-35	2,000.00	0	0	0	198.56	Not Full	No	1,801.44	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
18-1-21	2,000.00	0	0	0	128.732	Not Full	No	1,871.27	-0.668
20-2-21	2,000.00	0	0	0	139.642	Not Full	No	1,860.36	-0.668
17-2-31	2,000.00	0	0	0	76.311	Not Full	No	1,923.69	-0.672
18-1-06	2,000.00	0	0	0	138.926	Not Full	No	1,861.07	-0.674
19-1-05	2,000.00	0	0	0	153.459	Not Full	Yes	1,846.54	-0.675
29-1-07	2,000.00	0	0	0	467.759	Not Full	No	1,532.24	-0.675
19-1-04	2,000.00	0	0	0	151.858	Not Full	No	1,848.14	-0.675
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
19-1-07	2,000.00	0	0	0	157.651	Not Full	No	1,842.35	-0.683
20-4-13	2,000.00	0	0	0	127.916	Not Full	No	1,872.08	-0.684
19-1-03	2,000.00	0	0	0	150.248	Not Full	No	1,849.75	-0.685
20-4-12	2,000.00	0	0	0	125.914	Not Full	No	1,874.09	-0.686
29-1-03	2,000.00	0	0	0	353.343	Not Full	No	1,646.66	-0.691
19-1-02	2,000.00	0	0	0	148.142	Not Full	No	1,851.86	-0.691
29-1-19	2,000.00	0	0	0	507.241	Not Full	No	1,492.76	-0.692
18-1-02	2,000.00	0	0	0	127.506	Not Full	No	1,872.49	-0.694
19-1-26	2,000.00	0	0	0	169.097	Not Full	No	1,830.90	-0.703
21-4-02	2,000.00	0	0	0	131.795	Not Full	No	1,868.21	-0.705
19-1-08	2,000.00	0	0	0	161.627	Not Full	No	1,838.37	-0.706
19-1-22	2,000.00	0	0	0	166.089	Not Full	No	1,833.91	-0.711
19-1-06	2,000.00	0	0	0	157.02	Not Full	No	1,842.98	-0.714

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
29-1-05	2,000.00	0	0	0	420.619	Not Full	No	1,579.38	-0.715
19-1-10	2,000.00	0	0	0	166.418	Not Full	No	1,833.58	-0.716
18-4-01	2,000.00	0	0	0	141.784	Not Full	No	1,858.22	-0.716
18-4-04	2,000.00	0	0	0	153.383	Not Full	No	1,846.62	-0.717
18-4-03	2,000.00	0	0	0	150.08	Not Full	No	1,849.92	-0.72
18-3-32	2,000.00	87.6	87.6	0	150.257	Not Full	No	1,849.74	-0.733
G&OADD1	2,000.00	4.9	4.9	0	127.498	Not Full	No	1,872.50	-0.742
21-3-11	2,000.00	5.5	5.5	0	113.957	Not Full	No	1,886.04	-0.743
21-4-04	2,000.00	0	0	0	147.454	Not Full	Yes	1,852.55	-0.746
18-3-01	2,000.00	0	0	0	153.85	Not Full	No	1,846.15	-0.75
21-3-29	2,000.00	0	0	0	116.391	Not Full	No	1,883.61	-0.752
21-3-31	2,000.00	0	0	0	110.982	Not Full	No	1,889.02	-0.758
18-3-35	2,000.00	0	0	0	144.331	Not Full	No	1,855.67	-0.759
21-2-22	2,000.00	0	0	0	77.135	Not Full	No	1,922.87	-0.765
21-3-17	2,000.00	0	0	0	119.324	Not Full	No	1,880.68	-0.766
28-1-11	2,000.00	0	0	0	217.734	Not Full	No	1,782.27	-0.766
18-3-38	2,000.00	0	0	0	144.971	Not Full	Yes	1,855.03	-0.769
21-2-01	2,000.00	0	0	0	97.01	Not Full	No	1,902.99	-0.77
21-2-02	2,000.00	0	0	0	90.869	Not Full	No	1,909.13	-0.771
18-4-02	2,000.00	0	0	0	145.528	Not Full	No	1,854.47	-0.772
18-3-36	2,000.00	0	0	0	143.678	Not Full	No	1,856.32	-0.772
28-2-09	2,000.00	0	0	0	221.341	Not Full	No	1,778.66	-0.773
28-4-07	2,000.00	28.4	28.4	0	238.16	Not Full	No	1,761.84	-0.773
24-1-15	2,000.00	0	0	0	251.627	Not Full	No	1,748.37	-0.773
21-3-30	2,000.00	0	0	0	142.21	Not Full	No	1,857.79	-0.774
20-1-07	2,000.00	0	0	0	113.326	Not Full	No	1,886.67	-0.774
18-3-10	2,000.00	164.7	164.7	0	162.434	Not Full	No	1,837.57	-0.776
21-3-43	2,000.00	0	0	0	151.457	Not Full	No	1,848.54	-0.777
24-1-16	2,000.00	253.5	253.5	0	261.687	Not Full	No	1,738.31	-0.793
20-4-15	2,000.00	0	0	0	139.503	Not Full	No	1,860.50	-0.797
18-3-37	2,000.00	0	0	0	142.751	Not Full	No	1,857.25	-0.799
20-2-29	2,000.00	8.3	8.3	0	149.446	Not Full	No	1,850.55	-0.804
20-2-28	2,000.00	0	0	0	147.506	Not Full	No	1,852.49	-0.804
28-1-10	2,000.00	0	0	0	216.588	Not Full	No	1,783.41	-0.812
19-2-53	2,000.00	0	0	0	170.984	Not Full	No	1,829.02	-0.826
20-4-16	2,000.00	0	0	0	186.368	Not Full	No	1,813.63	-0.832
18-3-33	2,000.00	0	0	0	149.396	Not Full	No	1,850.60	-0.864
28-1-09	2,000.00	0	0	0	214.028	Not Full	No	1,785.97	-0.872
21-3-02	2,000.00	0	0	0	69.173	Not Full	No	1,930.83	-0.877
20-2-08	2,000.00	0	0	0	137.314	Not Full	No	1,862.69	-0.886
20-2-07	2,000.00	0	0	0	135.913	Not Full	No	1,864.09	-0.887
20-2-06	2,000.00	0	0	0	134.513	Not Full	No	1,865.49	-0.887
20-2-09	2,000.00	0	0	0	138.112	Not Full	No	1,861.89	-0.888
20-2-10	2,000.00	0	0	0	139.507	Not Full	No	1,860.49	-0.893

TABLE E-14

City of Sequim 2032 Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-3-05	2,000.00	8.3	8.3	0	104.253	Not Full	No	1,895.75	-0.897
28-1-13	2,000.00	0	0	0	239.402	Not Full	No	1,760.60	-0.898
19-1-16	2,000.00	0	0	0	159.325	Not Full	No	1,840.68	-0.925
21-4-03	2,000.00	0	0	0	144.674	Not Full	No	1,855.33	-0.926
21-3-10	2,000.00	0	0	0	107.565	Not Full	No	1,892.44	-0.935
21-3-03	2,000.00	0	0	0	75.272	Not Full	No	1,924.73	-0.978
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	100.012	Not Full	No	1,899.99	-1.038
21-1-02	2,000.00	0	0	0	49.501	Not Full	No	1,950.50	-1.099
21-1-09	2,000.00	0	0	0	56.26	Not Full	No	1,943.74	-1.12
21-1-10	2,000.00	58	58	0	58.86	Not Full	No	1,941.14	-1.12
21-1-08	2,000.00	0	0	0	54.43	Not Full	No	1,945.57	-1.12
21-2-08	2,000.00	0	0	0	60.808	Not Full	No	1,939.19	-1.142
21-2-07	2,000.00	0	0	0	59.508	Not Full	No	1,940.49	-1.142
21-2-11	2,000.00	0	0	0	65.72	Not Full	No	1,934.28	-1.15
21-3-01	2,000.00	0	0	0	67.83	Not Full	No	1,932.17	-1.15
21-3-28	2,000.00	0	0	0	108.138	Not Full	Yes	1,891.86	-1.302
21-1-06	2,000.00	0	0	0	49.29	Not Full	No	1,950.71	-1.31
21-3-07	2,000.00	10.1	10.1	0	111.183	Not Full	No	1,888.82	-1.327
21-3-08	2,000.00	0	0	0	108.823	Not Full	No	1,891.18	-1.327
21-3-13	2,000.00	0	0	0	110.743	Not Full	No	1,889.26	-1.327
21-3-09	2,000.00	0	0	0	108.643	Not Full	No	1,891.36	-1.327
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
WITH Carlsborg Flows											
1160	20-1-13	20-1-07	15	117.439	0	2618.999	4.755	1	1.38	1.25	1896.836
1161	20-1-19	20-1-13	15	165.416	0	2618.999	4.755	1	1.64	1.25	1598.262
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1141	19-4-25	19-4-24	8	56.351	0	535.2	3.416	1	1.65	0.667	323.97
1158	20-1-06	21-2-01	8	57.456	0.01	2643.499	16.873	1	4.47	0.667	591.598
1193	20-3-01	20-2-42	12	87.82	0	861.1	2.443	1	1.13	1	765.137
1138	19-4-22	20-3-10	8	512.576	0.02	689.9	4.403	1	1.04	0.667	666.508
1263	21-4-20	21-4-19	8	323.279	0	193.5	1.235	1	4.52	0.667	42.773
1055	19-1-30	19-1-29	8	678.565	0.01	457.2	3.46	0.79	0.96	0.524	476.042
1091	19-2-44	19-2-46	8	579.954	0	94.1	0.732	0.76	0.93	0.51	100.985
1197	20-3-06	20-3-04	10	300.724	0.01	782.4	3.912	0.76	0.93	0.634	843.327
1095	19-2-54	19-2-59	8	122.685	0.01	457.2	3.576	0.76	0.93	0.507	493.406
1070	19-2-16	19-2-54	8	329.97	0.01	457.2	3.619	0.75	0.91	0.501	500.039
1069	19-2-15	19-2-16	8	465.861	0.01	457.2	3.619	0.75	0.91	0.501	500.103
1071	19-2-17	19-1-30	8	787.887	0.01	457.2	3.628	0.75	0.91	0.5	501.469
1397	30-2-25	19-3-27	8	201.839	0	308.5	2.473	0.74	0.9	0.495	342.359
1226	21-2-06	21-1-01	18	790.804	0	2,643.50	4.189	0.74	0.9	1.113	2,935.75
1139	19-4-23	19-4-22	8	659	0.01	535.2	4.3	0.74	0.9	0.494	595.401
1385	30-2-12	30-2-11	8	253.12	0	308.5	2.481	0.74	0.9	0.494	343.507
1140	19-4-24	19-4-23	8	622.555	0.01	535.2	4.309	0.74	0.9	0.493	596.872
1384	30-2-11	30-2-25	8	317.001	0	308.5	2.485	0.74	0.9	0.493	344.2
1097	19-2-59	19-2-17	8	213.617	0.01	457.2	3.691	0.74	0.89	0.492	511.507
1217	21-1-01	21-1-02	18	769.455	0	2,643.50	4.24	0.73	0.89	1.1	2,976.20
1142	19-4-26	19-4-25	8	412.69	0.01	535.2	4.394	0.73	0.88	0.484	610.42
1188	20-2-40	20-2-39	12	382.757	0	879.6	3.3	0.71	0.85	0.707	1,036.62
1144	19-4-32	19-4-27	8	244.428	0.01	535.2	4.581	0.7	0.83	0.465	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	535.2	4.601	0.7	0.83	0.464	644.544
1225	21-2-03	21-2-22	18	109	0.01	2,643.50	4.51	0.69	0.83	1.039	3,201.67
1054	19-1-29	19-1-28	8	438.473	0.01	463.4	4.012	0.69	0.82	0.461	563.01
1145	19-4-33	19-4-32	8	193.37	0.01	535.2	4.658	0.69	0.82	0.458	654.371
1053	19-1-28	19-1-27	8	259.296	0.01	463.4	4.083	0.68	0.81	0.453	575.095
1173	20-2-05	20-2-04	15	311.909	0.01	1,549.10	4.036	0.66	0.77	0.822	2,015.97
1181	20-2-25	20-2-21	15	150.591	0.01	1,513.90	3.963	0.65	0.76	0.818	1,981.99
1146	19-4-34	19-4-33	8	222.441	0.02	499.9	4.701	0.64	0.74	0.428	672.312
1179	20-2-17	20-2-46	15	330.36	0.01	1,521.50	4.132	0.63	0.73	0.792	2,085.37
1192	20-2-46	20-2-05	15	322.684	0.01	1,521.50	4.229	0.62	0.71	0.777	2,146.94
1171	20-1-51	20-1-19	15	399.329	0.01	2,216.20	6.163	0.62	0.71	0.777	3,130.23

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1172	20-2-04	20-1-49	15	390.979	0.01	2,216.20	6.21	0.62	0.7	0.772	3,160.06
1147	19-4-40	19-4-34	8	331.621	0.02	499.9	5.058	0.6	0.68	0.402	737.535
1185	20-2-34	20-2-32	15	328.102	0.01	1,488.70	4.309	0.6	0.67	0.751	2,212.20
1184	20-2-32	20-2-29	15	331.328	0.01	1,498.00	4.469	0.59	0.65	0.732	2,314.37
1153	19-4-47	19-4-46	8	126.27	0	154.7	1.638	0.58	0.64	0.387	241.969
1152	19-4-46	19-4-42	8	125.896	0	154.7	1.64	0.58	0.64	0.387	242.328
1149	G&OADD2	19-4-40	8	356.5	0.02	497.3	5.295	0.58	0.64	0.386	783.474
1186	20-2-38	20-2-34	15	438.816	0.01	1,437.20	4.377	0.58	0.63	0.72	2,280.30
1189	20-2-41	20-2-40	12	217.516	0.01	879.6	4.236	0.57	0.62	0.57	1,417.43
1187	20-2-39	20-2-43	12	427.648	0.01	879.6	4.264	0.57	0.62	0.567	1,429.61
1190	20-2-42	20-2-41	12	92.525	0.01	879.6	4.403	0.55	0.59	0.552	1,490.86
1169	20-1-49	20-1-50	15	273.274	0.02	2,216.20	7.14	0.55	0.59	0.687	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	2,216.20	7.156	0.55	0.58	0.686	3,794.91
1052	19-1-27	19-1-26	8	403.413	0.02	463.4	5.309	0.55	0.58	0.363	803.166
969	17-2-12	17-2-13	12	303.616	0	526.8	2.698	0.54	0.57	0.542	920.151
1317	28-1-20	28-1-19	8	64.719	0	193.5	2.23	0.54	0.57	0.362	337.98
1191	20-2-43	20-2-38	12	369.052	0.01	879.6	4.511	0.54	0.57	0.542	1,538.93
1292	27-2-05	27-2-04	8	212.723	0	193.5	2.259	0.54	0.56	0.358	343.749
1314	28-1-31	28-1-30	8	394.454	0	193.5	2.266	0.54	0.56	0.357	345.255
1363	29-3-16	29-3-17	8	401.862	0.01	265.9	3.168	0.53	0.55	0.352	485.261
1265	21-4-24	21-4-21	8	126.481	0	193.5	2.316	0.53	0.55	0.351	355.323
1302	27-2-21	27-2-20	8	161.176	0	180.8	2.204	0.52	0.53	0.346	339.984
1254	21-4-05	21-4-02	8	158.26	0	193.5	2.36	0.52	0.53	0.346	364.236
1299	27-2-18	27-2-10	8	188.538	0	180.8	2.218	0.52	0.53	0.344	342.981
1301	27-2-20	27-2-19	8	289.947	0	180.8	2.223	0.52	0.53	0.343	343.961
1303	27-2-22	27-2-21	8	167.014	0	180.8	2.225	0.52	0.53	0.343	344.429
1304	27-2-23	27-2-22	8	149.448	0	180.8	2.226	0.52	0.53	0.343	344.564
1230	21-2-22	21-2-06	18	1,831.00	0.01	2,643.50	6.476	0.51	0.52	0.767	5,086.60
1223	21-2-01	21-2-02	18	518.06	0.01	2,643.50	6.532	0.51	0.51	0.762	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	2,643.50	6.537	0.51	0.51	0.762	5,150.85
1067	19-2-12	19-2-14	8	206.905	0.01	253.5	3.175	0.51	0.51	0.338	494.369
1277	24-1-26	24-1-06	8	289.66	0.01	253.5	3.188	0.51	0.51	0.337	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	253.5	3.191	0.51	0.51	0.337	497.667
1159	20-1-07	20-1-06	18	1,319.26	0.01	2,619.00	6.518	0.51	0.51	0.758	5,147.03
1267	24-1-02	24-1-03	8	348.953	0.01	253.5	3.194	0.51	0.51	0.337	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	253.5	3.195	0.51	0.51	0.337	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	253.5	3.197	0.51	0.51	0.337	498.946
1096	19-2-56	19-2-10	8	449.312	0.01	253.5	3.203	0.5	0.51	0.336	500.1

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1065	19-2-10	19-2-11	8	135.736	0.01	253.5	3.205	0.5	0.51	0.336	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	253.5	3.206	0.5	0.51	0.336	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	253.5	3.207	0.5	0.51	0.336	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	253.5	3.213	0.5	0.51	0.335	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	253.5	3.213	0.5	0.51	0.335	502.179
1268	24-1-03	24-1-13	8	198.997	0.01	253.5	3.215	0.5	0.5	0.335	502.62
1272	24-1-08	24-2-54	8	112.394	0.01	253.5	3.215	0.5	0.5	0.335	502.578
1273	24-1-13	24-1-05	8	257.402	0.01	253.5	3.216	0.5	0.5	0.335	502.741
1180	20-2-21	20-2-17	15	187.297	0.01	1,513.90	5.465	0.5	0.5	0.628	3,004.01
1270	24-1-06	24-1-07	8	97.95	0.01	253.5	3.22	0.5	0.5	0.335	503.589
1110	19-3-26	19-4-44	8	285.064	0.01	308.5	3.958	0.5	0.5	0.332	621.212
1196	20-3-04	20-3-01	12	110.258	0.01	861.1	4.925	0.5	0.5	0.497	1,740.95
1242	21-3-12	21-3-17	12	222.893	0	327.8	1.927	0.49	0.48	0.486	687.646
1202	20-3-15	20-3-06	12	203.572	0.01	707.5	4.165	0.49	0.48	0.486	1,486.56
968	17-2-11	17-2-12	12	104.09	0.01	526.8	3.11	0.49	0.47	0.485	1,111.22
1200	20-3-10	20-3-08	12	348.384	0.01	689.9	4.089	0.48	0.47	0.483	1,462.82
963	17-2-06	17-2-07	12	101.697	0.01	526.8	3.138	0.48	0.47	0.481	1,124.22
964	17-2-07	17-2-08	12	334.55	0.01	526.8	3.162	0.48	0.46	0.478	1,136.18
1166	20-1-34	20-1-30	12	354.986	0	372.7	2.245	0.48	0.46	0.477	807.304
962	17-2-05	17-2-06	12	232.966	0.01	526.8	3.202	0.47	0.46	0.474	1,155.49
1163	20-1-25	20-1-20	12	169.112	0	392.9	2.409	0.47	0.45	0.471	871.805
1155	19-4-49	19-4-48	8	250.077	0	154.7	2.137	0.47	0.45	0.313	343.876
1380	30-1-41	30-1-19	8	354.251	0	154.7	2.139	0.47	0.45	0.313	344.293
967	17-2-10	17-2-11	12	218.347	0.01	526.8	3.25	0.47	0.45	0.468	1,178.66
971	17-2-14	PWPS	12	184.844	0.01	526.8	3.275	0.47	0.44	0.466	1,191.02
965	17-2-08	17-2-09	12	306.365	0.01	526.8	3.289	0.46	0.44	0.464	1,197.84
1199	20-3-08	20-3-15	12	166.018	0.01	707.5	4.493	0.46	0.43	0.458	1,646.13
1165	20-1-30	20-1-26	12	354.769	0	382.8	2.435	0.46	0.43	0.457	892.782
994	17-3-04	17-2-05	12	221.097	0.01	526.8	3.353	0.46	0.43	0.457	1,229.42
1364	29-3-17	29-3-18	10	402.175	0	265.9	2.441	0.46	0.43	0.381	621.901
1157	19-4-51	G&OADD2	8	411.715	0.02	308.5	4.459	0.45	0.42	0.303	729.048
1365	29-3-18	29-1-21	10	398.124	0	265.9	2.506	0.45	0.41	0.373	644.294
1162	20-1-20	20-1-19	12	160.958	0	402.8	2.642	0.45	0.41	0.447	978.905
1349	29-1-17	29-1-16	10	418.361	0	265.9	2.513	0.45	0.41	0.372	646.739
1386	30-2-13	30-2-12	10	215.752	0	253.803	2.413	0.45	0.41	0.37	622.502
1168	20-1-39	20-1-38	12	255.284	0	362.6	2.41	0.44	0.4	0.442	897.542
1353	29-1-21	29-1-20	10	402.791	0	265.9	2.548	0.44	0.4	0.368	659.121
1258	21-4-09	21-4-08	8	50.49	0.01	193.5	2.917	0.44	0.4	0.293	484.022

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1164	20-1-26	20-1-25	12	169.233	0	392.9	2.727	0.43	0.38	0.428	1,031.17
1312	28-1-12	28-1-11	8	281.382	0	129.4	2.023	0.43	0.38	0.285	340.007
1289	27-2-02	27-2-01	8	113.774	0.01	193.5	3.031	0.43	0.38	0.285	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	193.5	3.032	0.43	0.38	0.285	510.101
1264	21-4-21	21-4-20	8	149.173	0.01	193.5	3.072	0.42	0.37	0.282	519.235
1111	19-3-27	19-3-26	8	266.061	0.02	308.5	4.919	0.42	0.37	0.281	832.801
1259	21-4-10	21-4-11	8	31.731	0.01	193.5	3.113	0.42	0.37	0.279	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	193.5	3.118	0.42	0.37	0.279	530.03
961	17-2-04	17-3-01	12	345.616	0.01	516.6	3.704	0.42	0.37	0.418	1,417.12
1098	19-2-62	19-2-39	8	362.45	0	94.1	1.52	0.42	0.36	0.278	258.656
1154	19-4-48	19-4-47	8	241.949	0.01	154.7	2.512	0.42	0.36	0.277	428.176
1024	18-4-25	18-4-24	8	397.125	0.01	170.2	2.77	0.42	0.36	0.277	472.646
1204	20-4-07	20-4-06	12	397.849	0	353.3	2.562	0.41	0.36	0.414	984.482
1022	18-4-23	17-2-01	8	384.354	0.01	170.2	2.804	0.41	0.35	0.274	480.434
991	17-3-01	17-3-02	12	318.869	0.01	516.6	3.815	0.41	0.35	0.409	1,475.36
1023	18-4-24	18-4-23	8	399.081	0.01	170.2	2.832	0.41	0.35	0.272	486.949
1203	20-4-06	20-1-39	12	392	0	353.3	2.638	0.41	0.35	0.405	1,024.33
1290	27-2-03	27-2-02	8	149.302	0.01	193.5	3.259	0.4	0.34	0.27	562.945
1167	20-1-38	20-1-34	12	191.441	0.01	362.6	2.797	0.4	0.33	0.395	1,099.32
998	18-1-04	18-1-03	12	300.784	0	346.4	2.679	0.4	0.33	0.395	1,054.06
1216	20-4-42	20-4-07	12	329.641	0.01	353.3	2.745	0.39	0.33	0.393	1,081.55
1005	18-1-11	18-1-18	8	149.044	0	115	2.062	0.39	0.32	0.257	364.602
1051	19-1-26	19-1-22	12	329.458	0.01	481.7	3.844	0.39	0.32	0.385	1,529.97
1183	20-2-29	20-2-28	15	69.913	0.03	1,506.30	7.762	0.38	0.31	0.479	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	1,506.30	7.765	0.38	0.31	0.479	4,845.04
1099	19-2-71	19-2-62	8	185.256	0	94.1	1.712	0.38	0.31	0.255	304.275
1021	18-4-05	18-4-26	8	297.552	0.01	170.2	3.115	0.38	0.31	0.253	555.058
1150	19-4-44	19-4-51	8	213.037	0.04	308.5	5.678	0.38	0.3	0.252	1,013.51
1300	27-2-19	27-2-18	8	77.095	0.01	180.8	3.327	0.38	0.3	0.252	594.046
1001	18-1-07	18-1-06	12	453.25	0.01	346.4	2.841	0.38	0.3	0.378	1,142.13
1362	29-3-15	29-3-16	8	237.428	0.03	265.9	4.914	0.38	0.3	0.252	878.756
1025	18-4-26	18-4-25	8	396.401	0.01	170.2	3.188	0.37	0.3	0.249	572.925
2	17-4-01	20-2-04	12	1,022.00	0.02	652.3	5.454	0.37	0.3	0.372	2,209.01
1359	29-3-12	29-3-13	8	328.996	0.03	265.9	5.008	0.37	0.3	0.248	901.92
1305	28-1-01	21-4-04	8	383.288	0.01	129.4	2.438	0.37	0.3	0.248	439.184
1026	18-4-27	18-4-05	8	370.385	0.01	170.2	3.241	0.37	0.29	0.246	585.931
1257	21-4-08	21-4-07	8	139.743	0.02	193.5	3.686	0.37	0.29	0.246	666.628
970	17-2-13	17-2-14	12	53.433	0.01	526.8	4.496	0.37	0.29	0.367	1,835.12

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
999	18-1-05	18-1-04	12	206.235	0.01	346.4	2.985	0.36	0.28	0.364	1,223.01
1047	19-1-22	19-1-16	12	505.438	0.01	525.8	4.537	0.36	0.28	0.364	1,859.70
960	17-2-03	17-2-04	12	237.625	0.01	516.6	4.517	0.36	0.28	0.36	1,860.59
992	17-3-02	17-3-03	12	398.981	0.02	526.8	4.669	0.36	0.27	0.357	1,933.12
1114	19-3-31	19-3-30	8	104.645	0	91.2	1.825	0.36	0.27	0.237	336.21
966	17-2-09	17-2-10	12	472.423	0.02	526.8	4.701	0.36	0.27	0.355	1,951.66
1316	28-1-19	21-4-24	8	358.022	0.02	193.5	3.898	0.35	0.27	0.236	720.218
959	17-2-02	17-2-03	12	400.873	0.01	516.6	4.636	0.35	0.27	0.353	1,928.56
1377	30-1-18	19-4-45	8	350.408	0.02	188.8	3.815	0.35	0.27	0.235	705.631
1115	19-3-32	19-3-31	8	403.213	0	91.2	1.845	0.35	0.27	0.235	341.484
1089	19-2-39	19-2-40	8	218.916	0	94.1	1.905	0.35	0.27	0.235	352.528
1112	19-3-28	30-2-13	8	269.428	0	91.2	1.85	0.35	0.27	0.235	342.696
1284	24-4-26	24-4-27	8	230.476	0	91.2	1.854	0.35	0.27	0.234	343.574
1285	24-4-27	19-3-32	8	415.524	0	91.2	1.854	0.35	0.27	0.234	343.712
1283	24-4-25	24-4-26	8	399.92	0	91.2	1.855	0.35	0.27	0.234	343.964
1282	24-4-24	24-4-25	8	297.246	0	91.2	1.855	0.35	0.27	0.234	344.076
958	17-2-01	17-2-02	12	399.079	0.02	516.6	4.672	0.35	0.27	0.351	1,949.48
1287	24-4-39	24-4-34	8	662.433	0	91.2	1.885	0.35	0.26	0.232	351.648
997	18-1-03	18-1-21	12	510.506	0.01	346.4	3.232	0.34	0.25	0.343	1,364.97
995	18-1-01	17-2-01	12	406.186	0.01	346.4	3.254	0.34	0.25	0.342	1,377.91
1355	29-2-43	30-1-20	8	362.02	0.01	154.7	3.333	0.34	0.25	0.225	632.015
1379	30-1-20	30-1-41	8	66.423	0.01	154.7	3.337	0.34	0.24	0.224	632.995
993	17-3-03	17-3-04	12	281.199	0.02	526.8	5.057	0.34	0.24	0.336	2,159.23
1367	30-1-04	30-1-05	8	389.779	0.01	96.1	2.096	0.33	0.24	0.223	399.153
1008	18-1-21	18-1-02	12	145.768	0.01	346.4	3.384	0.33	0.24	0.332	1,454.73
1392	30-2-18	30-2-17	10	372.265	0.01	179.8	2.557	0.33	0.24	0.275	766.539
1391	30-2-17	30-2-16	10	64.408	0.01	179.8	2.582	0.33	0.23	0.273	777.014
1113	19-3-30	19-3-28	8	590.482	0.01	91.2	2.051	0.33	0.23	0.218	395.288
1000	18-1-06	18-1-05	12	395.427	0.01	346.4	3.474	0.33	0.23	0.326	1,508.42
1004	18-1-10	18-1-11	8	343.962	0.01	115	2.605	0.33	0.23	0.217	503.61
1381	30-1-45	30-1-03	8	116.402	0.01	96.1	2.18	0.33	0.23	0.216	421.703
1041	19-1-16	20-2-38	15	446.292	0.01	557.6	3.654	0.32	0.22	0.401	2,499.76
1151	19-4-45	G&OADD2	8	185.247	0.02	188.8	4.354	0.32	0.22	0.214	847.557
1376	30-1-17	30-1-18	8	382.118	0.03	188.8	4.391	0.32	0.22	0.213	857.437
1374	30-1-15	30-1-16	8	321.214	0.03	188.8	4.433	0.32	0.22	0.211	868.858
1206	20-4-13	20-4-12	12	193.1	0.01	353.3	3.696	0.32	0.22	0.316	1,631.72
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1398	30-2-32	30-2-14	10	143.05	0.01	179.8	2.733	0.31	0.21	0.262	840.701
1205	20-4-12	20-4-42	12	178.123	0.01	353.3	3.735	0.31	0.21	0.314	1,655.92
1003	18-1-09	18-1-10	8	367.771	0.01	115	2.759	0.31	0.21	0.208	545.445
996	18-1-02	18-1-01	12	256.223	0.01	346.4	3.794	0.31	0.2	0.306	1,705.73
1291	27-2-04	27-2-03	8	178.715	0.03	193.5	4.782	0.31	0.2	0.203	956.58
1354	29-1-28	20-4-18	10	434.841	0.02	265.9	4.239	0.3	0.2	0.253	1,328.98
1286	24-4-34	24-4-24	8	208.15	0.01	91.2	2.282	0.3	0.2	0.202	458.545
1002	18-1-08	18-1-09	8	365.984	0.01	115	2.912	0.3	0.2	0.2	588.071
1232	21-3-02	21-3-01	15	203.266	0.01	454	3.291	0.3	0.19	0.373	2,342.65
1148	19-4-42	19-4-22	10	349.211	0.01	154.7	2.528	0.3	0.19	0.248	800.183
1352	29-1-20	29-1-19	10	419.219	0.02	265.9	4.39	0.3	0.19	0.246	1,395.69
1251	21-4-02	G&OADD1	12	377.409	0.01	322.9	3.716	0.3	0.19	0.295	1,703.41
1296	27-2-10	27-2-11	8	230.854	0.03	180.8	4.7	0.29	0.19	0.196	959.031
1260	21-4-11	21-4-09	8	350.326	0.04	193.5	5.083	0.29	0.19	0.195	1,041.49
1356	29-3-09	29-3-10	8	251.525	0.07	265.9	7.045	0.29	0.18	0.193	1,448.66
1297	27-2-11	27-2-12	8	180.846	0.03	180.8	4.795	0.29	0.18	0.193	986.377
1396	30-2-23	30-2-21	10	196.778	0.01	179.8	3.065	0.29	0.18	0.241	986.537
1328	28-3-12	28-4-02	8	320.055	0.01	91	2.43	0.29	0.18	0.192	501.316
1358	29-3-11	29-3-12	8	279.115	0.08	265.9	7.195	0.29	0.18	0.191	1,491.62
1017	18-4-01	18-1-07	12	39.831	0.02	346.4	4.203	0.28	0.18	0.284	1,967.82
1262	21-4-19	21-4-18	8	208.771	0.04	193.5	5.296	0.28	0.18	0.189	1,103.06
1020	18-4-04	18-4-03	12	384.556	0.01	258.8	3.163	0.28	0.17	0.283	1,485.25
1235	21-3-05	21-3-04	15	509.884	0.01	454	3.553	0.28	0.17	0.353	2,606.80
1006	18-1-18	18-1-19	10	107.771	0.01	115	2.035	0.28	0.17	0.235	664.837
1350	29-1-18	29-1-17	10	201.851	0.03	265.9	4.737	0.28	0.17	0.233	1,551.81
1019	18-4-03	18-4-02	12	506.848	0.01	258.8	3.202	0.28	0.17	0.28	1,510.74
1218	21-1-02	WRFHEADWORKS	18	50	0.11	2,643.50	14.702	0.28	0.17	0.417	15,678.35
1361	29-3-14	29-3-15	8	241.785	0.09	265.9	7.508	0.28	0.17	0.185	1,583.44
973	17-2-16	17-2-17	10	217.198	0.01	115	2.08	0.28	0.17	0.231	685.544
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	180.8	5.16	0.28	0.17	0.183	1,092.97
1390	30-2-16	30-2-15	10	360.927	0.01	179.8	3.302	0.27	0.16	0.228	1,094.81
1256	21-4-07	21-4-06	8	60.782	0.05	193.5	5.604	0.27	0.16	0.181	1,193.95
1357	29-3-10	29-3-11	8	398.375	0.09	265.9	7.757	0.27	0.16	0.181	1,657.27
1318	28-1-29	28-1-20	8	363.951	0.05	193.5	5.743	0.27	0.16	0.178	1,235.61
1011	18-3-32	18-3-33	12	211.336	0	87.6	1.16	0.27	0.16	0.267	562.37
1261	21-4-18	21-4-10	8	249.725	0.05	193.5	5.811	0.27	0.15	0.177	1,256.39
975	17-2-18	17-2-19	10	144.435	0.01	115	2.221	0.26	0.15	0.22	751.922
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663
1156	19-4-50	19-4-49	8	393.949	0.04	154.7	4.808	0.26	0.15	0.173	1,054.02
1250	G&OADD1	21-3-12	12	389.309	0.02	327.8	4.546	0.26	0.15	0.258	2,246.06
1389	30-2-15	30-2-32	10	284.705	0.02	179.8	3.593	0.26	0.15	0.215	1,232.68
1241	21-3-11	21-3-31	12	144.196	0.02	333.3	4.642	0.26	0.15	0.257	2,297.16
1090	19-2-40	19-2-44	8	389.205	0.01	94.1	2.959	0.26	0.14	0.171	651.712
1288	27-2-01	28-1-31	8	255.578	0.06	193.5	6.085	0.26	0.14	0.171	1,340.06
1046	19-1-21	19-1-20	8	60.527	0	31.8	1.003	0.26	0.14	0.171	221.037
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1209	20-4-17	20-4-16	10	315.244	0.06	353.3	7.134	0.26	0.14	0.213	2,458.52
1133	19-4-11	19-4-09	8	444.228	0.01	74.9	2.388	0.25	0.14	0.17	528.762
1253	21-4-04	21-4-03	12	799.3	0	129.4	1.835	0.25	0.14	0.254	914.436
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1360	29-3-13	29-3-14	8	236.006	0.12	265.9	8.516	0.25	0.14	0.169	1,889.73
1221	21-1-09	21-1-08	18	282.589	0.01	535.2	3.387	0.25	0.14	0.38	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	535.2	3.391	0.25	0.14	0.38	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	535.2	3.391	0.25	0.14	0.38	3,810.51
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
1394	30-2-20	30-2-19	10	277.422	0.02	179.8	3.703	0.25	0.14	0.21	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	179.8	3.704	0.25	0.14	0.21	1,286.47
1240	21-3-10	21-3-05	15	274.714	0.01	445.7	4.099	0.25	0.14	0.315	3,210.21
980	17-2-23	17-2-24	10	299.088	0.01	115	2.392	0.25	0.14	0.209	834.02
1131	19-4-08	19-4-07	8	699.032	0.01	74.9	2.437	0.25	0.14	0.167	544.176
1009	18-3-01	18-4-04	12	36.125	0.01	258.8	3.751	0.25	0.14	0.25	1,886.27
987	17-2-30	17-2-33	10	267.515	0.01	115	2.407	0.25	0.14	0.208	841.806
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
981	17-2-24	17-2-25	10	296.445	0.01	115	2.415	0.25	0.14	0.208	845.522
982	17-2-25	17-2-26	10	346.589	0.01	115	2.415	0.25	0.14	0.208	845.73
986	17-2-29	17-2-30	10	242.085	0.01	115	2.425	0.25	0.14	0.207	850.2
1229	21-2-21	21-2-08	8	2,869.51	0	23.2	0.765	0.25	0.14	0.166	171.68
1373	30-1-14	30-1-15	8	262.922	0.07	188.8	6.229	0.25	0.14	0.165	1,398.95
979	17-2-22	17-2-23	10	296.781	0.01	115	2.43	0.25	0.14	0.207	852.761
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
983	17-2-26	17-2-27	10	268.744	0.01	115	2.459	0.25	0.13	0.205	867.423

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1130	19-4-07	19-4-06	8	605.46	0.01	74.9	2.522	0.25	0.13	0.163	571.195
1403	30-3-05	30-3-04	8	115.798	0.01	48.1	1.634	0.24	0.13	0.162	371.352
1395	30-2-21	30-2-20	10	217.583	0.02	179.8	3.921	0.24	0.13	0.202	1,394.12
1248	21-3-31	21-3-10	12	133.4	0.03	333.3	5.061	0.24	0.13	0.242	2,593.32
1013	18-3-35	18-3-36	12	292.402	0	87.6	1.34	0.24	0.13	0.241	689.014
1132	19-4-09	19-4-08	8	681.983	0.01	74.9	2.601	0.24	0.13	0.16	596.292
1369	30-1-06	30-1-08	8	302.642	0.05	144.2	5.009	0.24	0.13	0.16	1,148.53
1348	29-1-16	29-1-07	10	187.628	0.05	265.9	5.921	0.24	0.13	0.199	2,123.14
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	477.2	3.28	0.24	0.13	0.358	3,811.19
1370	30-1-07	30-1-06	8	418.833	0.01	48.1	1.677	0.24	0.13	0.159	385.06
1027	19-1-01	18-4-27	8	420.515	0.01	61.9	2.16	0.24	0.13	0.159	496.115
1227	21-2-07	21-1-10	18	102.071	0.01	477.2	3.292	0.24	0.13	0.358	3,829.92
1338	28-4-02	28-1-14	8	424.758	0.02	91	3.198	0.24	0.12	0.158	736.912
978	17-2-21	17-2-22	10	242.47	0.01	115	2.615	0.24	0.12	0.196	945.568
1244	21-3-17	21-3-11	12	186.646	0.03	327.8	5.216	0.23	0.12	0.234	2,724.62
1311	28-1-11	28-1-10	12	243.143	0.01	129.4	2.063	0.23	0.12	0.234	1,078.42
1228	21-2-11	21-2-08	18	760.617	0.01	454	3.228	0.23	0.12	0.35	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	454	3.233	0.23	0.12	0.35	3,810.33
1016	18-3-38	18-3-35	12	253.099	0	87.6	1.42	0.23	0.12	0.231	747.408
1210	20-4-18	20-4-17	10	22.66	0.05	265.9	6.207	0.23	0.12	0.193	2,268.95
1129	19-4-06	20-3-07	8	70.467	0.01	74.9	2.758	0.23	0.12	0.153	647.808
1382	30-2-01	30-1-07	8	267.898	0.01	48.1	1.784	0.23	0.11	0.152	420.257
1018	18-4-02	18-4-01	12	189.934	0.02	258.8	4.275	0.23	0.11	0.228	2,267.84
1375	30-1-16	30-1-17	8	373.616	0.09	188.8	7.033	0.23	0.11	0.152	1,659.65
1014	18-3-36	18-3-37	12	346.739	0	87.6	1.451	0.23	0.11	0.228	770.132
1372	30-1-11	30-1-14	8	265.862	0.06	144.2	5.392	0.23	0.11	0.151	1,274.35
1275	24-1-15	24-1-14	12	431.609	0.02	253.5	4.226	0.23	0.11	0.227	2,250.02
976	17-2-19	17-2-20	10	293.842	0.01	115	2.764	0.23	0.11	0.189	1,022.48
1036	19-1-11	19-1-10	10	263.273	0	56.8	1.372	0.23	0.11	0.188	508.411
1368	30-1-05	30-1-06	8	198.059	0.03	96.1	3.638	0.23	0.11	0.15	864.026
1010	18-3-10	18-3-01	12	398.208	0.02	258.8	4.395	0.22	0.11	0.224	2,357.59
984	17-2-27	17-2-28	10	226.538	0.01	115	2.813	0.22	0.11	0.186	1,048.14
989	17-2-32	PWPS	10	30.835	0.01	115	2.817	0.22	0.11	0.186	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	115	2.823	0.22	0.11	0.186	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	115	2.834	0.22	0.11	0.185	1,059.29
1378	30-1-19	19-4-50	8	139.234	0.07	154.7	5.976	0.22	0.11	0.148	1,431.63
1306	28-1-02	28-1-01	8	247.684	0.05	129.4	5.056	0.22	0.11	0.147	1,216.75

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1346	29-1-06	29-1-05	10	254.333	0.07	265.9	6.713	0.22	0.11	0.182	2,534.09
1388	30-2-14	30-2-13	10	491.303	0.03	179.8	4.542	0.22	0.11	0.182	1,714.76
1233	21-3-03	21-3-02	15	273.312	0.02	454	5.137	0.22	0.1	0.272	4,378.42
977	17-2-20	17-2-21	10	216.023	0.01	115	2.986	0.21	0.1	0.179	1,140.43
1198	20-3-07	20-3-06	8	454.124	0.02	74.9	3.107	0.21	0.1	0.141	766.399
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
990	17-2-33	17-2-31	10	99.544	0.02	115	3.077	0.21	0.1	0.175	1,190.00
1122	19-3-46	19-3-44	8	148.328	0	32.3	1.377	0.21	0.09	0.138	343.549
1123	19-3-47	19-3-46	8	301.624	0	32.3	1.378	0.21	0.09	0.138	343.858
1276	24-1-16	24-1-15	12	354.375	0.03	253.5	4.813	0.21	0.09	0.207	2,704.08
1092	19-2-46	19-2-53	10	355.676	0.01	94.1	2.574	0.21	0.09	0.172	1,004.28
1037	19-1-12	19-1-11	8	136.141	0.01	56.8	2.432	0.21	0.09	0.138	607.673
1007	18-1-19	17-2-16	10	85.069	0.02	115	3.213	0.2	0.09	0.17	1,264.88
1207	20-4-15	20-4-13	12	195.888	0.06	353.3	6.895	0.2	0.09	0.203	3,918.42
1329	28-3-14	28-3-12	8	340.805	0.04	91	4.031	0.2	0.09	0.134	1,021.69
1343	29-1-02	29-1-28	10	420.998	0.09	265.9	7.573	0.2	0.09	0.168	3,004.81
1015	18-3-37	18-4-01	12	274.98	0	87.6	1.733	0.2	0.09	0.201	990.753
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1063	19-1-38	19-1-37	8	334.348	0.01	31.8	1.462	0.2	0.09	0.131	376.183
1308	28-1-04	28-1-03	8	163.086	0.08	129.4	5.96	0.2	0.08	0.131	1,535.33
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1366	30-1-03	30-1-04	8	322.785	0.04	96.1	4.438	0.2	0.08	0.131	1,144.59
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
988	17-2-31	17-2-32	10	34.461	0.02	115	3.461	0.19	0.08	0.161	1,405.25
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1031	19-1-05	19-1-04	10	303.991	0.01	56.8	1.746	0.19	0.08	0.159	715.317
1347	29-1-07	29-1-06	10	262.001	0.12	265.9	8.182	0.19	0.08	0.159	3,353.04
1371	30-1-08	30-1-11	8	56.083	0.11	144.2	6.944	0.19	0.08	0.127	1,822.60
1030	19-1-04	19-1-03	10	300.714	0.01	56.8	1.753	0.19	0.08	0.158	719.204
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1310	28-1-10	28-1-09	12	230.353	0.01	129.4	2.811	0.19	0.08	0.188	1,670.30
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
1408	30-4-03	30-4-02	8	394.827	0.06	96.1	4.873	0.18	0.07	0.122	1,306.78
1045	19-1-20	19-1-38	8	252.835	0.01	31.8	1.613	0.18	0.07	0.122	432.594
1315	28-1-14	28-1-13	8	328.472	0.05	91	4.635	0.18	0.07	0.122	1,245.47
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1033	19-1-07	19-1-06	10	91.805	0.01	56.8	1.885	0.18	0.07	0.151	797.098

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1029	19-1-03	19-1-02	10	300.714	0.01	56.8	1.929	0.18	0.07	0.148	823.951
1094	19-2-53	18-3-10	12	1,094.58	0.01	94.1	2.284	0.17	0.07	0.174	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	48.1	2.63	0.17	0.07	0.116	727.923
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1383	30-2-02	30-2-01	8	366.127	0.02	48.1	2.651	0.17	0.07	0.115	736.18
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1135	19-4-13	19-4-12	8	327.186	0.01	32.3	1.802	0.17	0.06	0.114	503.061
1344	29-1-03	29-1-02	10	553.688	0.18	265.9	9.548	0.17	0.06	0.143	4,173.42
1028	19-1-02	19-1-01	10	265.303	0.01	56.8	2.05	0.17	0.06	0.142	897.861
1234	21-3-04	21-3-03	15	400.893	0.06	454	7.32	0.17	0.06	0.212	7,230.42
1401	30-3-03	30-3-02	8	313.231	0.02	48.1	2.728	0.17	0.06	0.113	766.921
1351	29-1-19	29-1-18	10	127.562	0.19	265.9	9.713	0.17	0.06	0.141	4,276.76
1208	20-4-16	20-4-15	12	367.616	0.13	353.3	9.011	0.17	0.06	0.168	5,726.79
1340	28-4-04	28-4-03	8	400.195	0.08	91	5.311	0.17	0.06	0.111	1,511.06
1044	19-1-19	19-1-18	8	188.782	0.01	31.8	1.863	0.17	0.06	0.111	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	31.8	1.865	0.17	0.06	0.111	531.765
1406	30-4-01	30-1-45	8	298.989	0.09	96.1	5.659	0.17	0.06	0.11	1,615.90
1400	30-3-02	30-3-01	8	281.493	0.02	48.1	2.833	0.17	0.06	0.11	809.001
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1307	28-1-03	28-1-02	8	155.436	0.17	129.4	7.718	0.16	0.06	0.109	2,215.51
1330	28-3-15	28-3-14	8	202.922	0.08	91	5.444	0.16	0.06	0.109	1,564.69
1402	30-3-04	30-3-03	8	249.614	0.03	48.1	2.955	0.16	0.06	0.107	859.109
1137	19-4-18	19-4-17	8	372.632	0.01	32.3	1.986	0.16	0.06	0.107	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	32.3	1.989	0.16	0.06	0.107	578.662
1407	30-4-02	30-4-01	8	403.34	0.1	96.1	5.977	0.16	0.06	0.106	1,746.43
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1331	28-3-17	28-3-15	8	415.509	0.11	91	5.933	0.15	0.05	0.103	1,768.60
1034	19-1-08	19-1-07	10	303.907	0.01	56.8	2.411	0.15	0.05	0.127	1,131.17
1339	28-4-03	28-3-17	8	355.875	0.12	91	6.22	0.15	0.05	0.099	1,891.81
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1120	19-3-43	19-3-34	8	277.631	0.02	32.3	2.323	0.14	0.05	0.096	721.704

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1032	19-1-06	19-1-05	10	215.234	0.02	56.8	2.623	0.14	0.05	0.12	1,275.16
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237
1345	29-1-05	29-1-03	10	176.995	0.38	265.9	12.437	0.14	0.04	0.119	6,079.90
1035	19-1-10	19-1-08	10	267.538	0.02	56.8	2.688	0.14	0.04	0.118	1,320.68
1136	19-4-17	19-4-13	8	239.707	0.02	32.3	2.447	0.14	0.04	0.093	777.493
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259
1042	19-1-17	19-1-16	8	442.425	0.02	31.8	2.432	0.14	0.04	0.092	775.604
1404	30-3-06	30-3-05	8	479.243	0.05	48.1	3.681	0.14	0.04	0.092	1,174.62
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1012	18-3-33	18-3-38	12	234.47	0.02	87.6	3.04	0.14	0.04	0.136	2,201.35
1245	21-3-28	21-3-10	18	171.574	0	112.4	1.808	0.13	0.04	0.198	2,997.81
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1121	19-3-44	19-3-43	8	212.155	0.03	32.3	2.761	0.13	0.04	0.085	923.609
1309	28-1-09	28-1-04	12	242.622	0.05	129.4	4.927	0.13	0.04	0.128	3,711.32
1219	21-1-06	WRFHEADWORKS	18	50	0.11	535.2	9.192	0.13	0.03	0.19	15,678.35
1117	19-3-34	19-3-33	8	161.198	0.03	32.3	2.81	0.13	0.03	0.084	947.138
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1327	28-2-26	21-3-43	8	787.743	0.03	28.4	2.698	0.12	0.03	0.079	944.431
1237	21-3-07	21-3-13	18	111.052	0	84	1.648	0.12	0.03	0.173	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	84	1.649	0.12	0.03	0.173	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	84	1.653	0.12	0.03	0.173	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	84	1.654	0.12	0.03	0.173	2,990.43
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1405	30-3-07	30-3-06	8	183.457	0.13	48.1	5.33	0.11	0.02	0.071	1,992.53
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1062	19-1-37	19-1-19	8	25.33	0.06	31.8	3.615	0.11	0.02	0.07	1,366.73
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037
1313	28-1-13	28-1-12	12	301.095	0.07	91	4.836	0.1	0.02	0.102	4,203.92
1116	19-3-33	19-4-18	8	61.971	0.08	32.3	3.92	0.1	0.02	0.067	1,524.43
1246	21-3-29	21-3-28	10	393.116	0.02	28.4	2.318	0.1	0.02	0.081	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	28.4	3.694	0.1	0.02	0.064	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	129.4	10.956	0.07	0.01	0.074	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	28.4	3.568	0.07	0.01	0.061	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	28.4	3.578	0.07	0.01	0.06	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	28.4	3.645	0.07	0.01	0.06	2,752.41
1038	19-1-13	19-1-01	8	398.608	0.01	5.1	1.065	0.07	0.01	0.046	523.922
1249	21-3-43	21-3-30	10	75.939	0.1	28.4	3.949	0.07	0.01	0.057	3,088.26
1039	19-1-14	19-1-13	8	374.258	0.01	5.1	1.128	0.07	0.01	0.045	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	5.1	1.222	0.06	0.01	0.042	638.155
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
WITHOUT Carlsborg Flows											
1138	19-4-22	20-3-10	8	512.576	0.02	689.9	4.403	1	1.04	0.667	666.508
1160	20-1-13	20-1-07	15	117.439	0	2431.999	4.415	1	1.28	1.25	1896.836

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1161	20-1-19	20-1-13	15	165.416	0	2431.999	4.415	1	1.52	1.25	1598.262
1193	20-3-01	20-2-42	12	87.82	0	861.1	2.443	1	1.13	1	765.137
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1141	19-4-25	19-4-24	8	56.351	0	535.2	3.416	1	1.65	0.667	323.97
1263	21-4-20	21-4-19	8	323.279	0	193.5	1.235	1	4.52	0.667	42.773
1158	20-1-06	21-2-01	8	57.456	0.01	2456.499	15.679	1	4.15	0.667	591.598
1091	19-2-44	19-2-46	8	579.954	0	94.1	0.732	0.76	0.93	0.51	100.985
1197	20-3-06	20-3-04	10	300.724	0.01	782.4	3.912	0.76	0.93	0.634	843.327
1397	30-2-25	19-3-27	8	201.839	0	308.5	2.473	0.74	0.9	0.495	342.359
1139	19-4-23	19-4-22	8	659	0.01	535.2	4.3	0.74	0.9	0.494	595.401
1385	30-2-12	30-2-11	8	253.12	0	308.5	2.481	0.74	0.9	0.494	343.507
1140	19-4-24	19-4-23	8	622.555	0.01	535.2	4.309	0.74	0.9	0.493	596.872
1384	30-2-11	30-2-25	8	317.001	0	308.5	2.485	0.74	0.9	0.493	344.2
1142	19-4-26	19-4-25	8	412.69	0.01	535.2	4.394	0.73	0.88	0.484	610.42
1188	20-2-40	20-2-39	12	382.757	0	879.6	3.3	0.71	0.85	0.707	1,036.62
1226	21-2-06	21-1-01	18	790.804	0	2,456.50	4.144	0.7	0.84	1.05	2,935.75
1144	19-4-32	19-4-27	8	244.428	0.01	535.2	4.581	0.7	0.83	0.465	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	535.2	4.601	0.7	0.83	0.464	644.544
1217	21-1-01	21-1-02	18	769.455	0	2,456.50	4.192	0.69	0.83	1.039	2,976.20
1145	19-4-33	19-4-32	8	193.37	0.01	535.2	4.658	0.69	0.82	0.458	654.371
1225	21-2-03	21-2-22	18	109	0.01	2,456.50	4.45	0.66	0.77	0.985	3,201.67
1146	19-4-34	19-4-33	8	222.441	0.02	499.9	4.701	0.64	0.74	0.428	672.312
1147	19-4-40	19-4-34	8	331.621	0.02	499.9	5.058	0.6	0.68	0.402	737.535
1173	20-2-05	20-2-04	15	311.909	0.01	1,362.10	3.93	0.6	0.68	0.753	2,015.97
1181	20-2-25	20-2-21	15	150.591	0.01	1,326.90	3.856	0.6	0.67	0.748	1,981.99
1171	20-1-51	20-1-19	15	399.329	0.01	2,029.20	6.047	0.59	0.65	0.733	3,130.23
1172	20-2-04	20-1-49	15	390.979	0.01	2,029.20	6.091	0.58	0.64	0.728	3,160.06
1179	20-2-17	20-2-46	15	330.36	0.01	1,334.50	4.017	0.58	0.64	0.727	2,085.37
1153	19-4-47	19-4-46	8	126.27	0	154.7	1.638	0.58	0.64	0.387	241.969
1152	19-4-46	19-4-42	8	125.896	0	154.7	1.64	0.58	0.64	0.387	242.328
1149	G&OADD2	19-4-40	8	356.5	0.02	497.3	5.295	0.58	0.64	0.386	783.474
1192	20-2-46	20-2-05	15	322.684	0.01	1,334.50	4.108	0.57	0.62	0.714	2,146.94
1189	20-2-41	20-2-40	12	217.516	0.01	879.6	4.236	0.57	0.62	0.57	1,417.43
1187	20-2-39	20-2-43	12	427.648	0.01	879.6	4.264	0.57	0.62	0.567	1,429.61
1190	20-2-42	20-2-41	12	92.525	0.01	879.6	4.403	0.55	0.59	0.552	1,490.86
1185	20-2-34	20-2-32	15	328.102	0.01	1,301.70	4.179	0.55	0.59	0.689	2,212.20
969	17-2-12	17-2-13	12	303.616	0	526.8	2.698	0.54	0.57	0.542	920.151
1317	28-1-20	28-1-19	8	64.719	0	193.5	2.23	0.54	0.57	0.362	337.98

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1191	20-2-43	20-2-38	12	369.052	0.01	879.6	4.511	0.54	0.57	0.542	1,538.93
1055	19-1-30	19-1-29	8	678.565	0.01	270.2	3.134	0.54	0.57	0.36	476.042
1184	20-2-32	20-2-29	15	331.328	0.01	1,311.00	4.332	0.54	0.57	0.674	2,314.37
1292	27-2-05	27-2-04	8	212.723	0	193.5	2.259	0.54	0.56	0.358	343.749
1314	28-1-31	28-1-30	8	394.454	0	193.5	2.266	0.54	0.56	0.357	345.255
1186	20-2-38	20-2-34	15	438.816	0.01	1,250.20	4.235	0.53	0.55	0.66	2,280.30
1363	29-3-16	29-3-17	8	401.862	0.01	265.9	3.168	0.53	0.55	0.352	485.261
1095	19-2-54	19-2-59	8	122.685	0.01	270.2	3.221	0.53	0.55	0.352	493.406
1265	21-4-24	21-4-21	8	126.481	0	193.5	2.316	0.53	0.55	0.351	355.323
1070	19-2-16	19-2-54	8	329.97	0.01	270.2	3.254	0.52	0.54	0.349	500.039
1069	19-2-15	19-2-16	8	465.861	0.01	270.2	3.254	0.52	0.54	0.349	500.103
1071	19-2-17	19-1-30	8	787.887	0.01	270.2	3.26	0.52	0.54	0.349	501.469
1169	20-1-49	20-1-50	15	273.274	0.02	2,029.20	6.99	0.52	0.54	0.652	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	2,029.20	7.006	0.52	0.54	0.65	3,794.91
1302	27-2-21	27-2-20	8	161.176	0	180.8	2.204	0.52	0.53	0.346	339.984
1254	21-4-05	21-4-02	8	158.26	0	193.5	2.36	0.52	0.53	0.346	364.236
1097	19-2-59	19-2-17	8	213.617	0.01	270.2	3.31	0.52	0.53	0.344	511.507
1299	27-2-18	27-2-10	8	188.538	0	180.8	2.218	0.52	0.53	0.344	342.981
1301	27-2-20	27-2-19	8	289.947	0	180.8	2.223	0.52	0.53	0.343	343.961
1303	27-2-22	27-2-21	8	167.014	0	180.8	2.225	0.52	0.53	0.343	344.429
1304	27-2-23	27-2-22	8	149.448	0	180.8	2.226	0.52	0.53	0.343	344.564
1067	19-2-12	19-2-14	8	206.905	0.01	253.5	3.175	0.51	0.51	0.338	494.369
1277	24-1-26	24-1-06	8	289.66	0.01	253.5	3.188	0.51	0.51	0.337	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	253.5	3.191	0.51	0.51	0.337	497.667
1267	24-1-02	24-1-03	8	348.953	0.01	253.5	3.194	0.51	0.51	0.337	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	253.5	3.195	0.51	0.51	0.337	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	253.5	3.197	0.51	0.51	0.337	498.946
1096	19-2-56	19-2-10	8	449.312	0.01	253.5	3.203	0.5	0.51	0.336	500.1
1065	19-2-10	19-2-11	8	135.736	0.01	253.5	3.205	0.5	0.51	0.336	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	253.5	3.206	0.5	0.51	0.336	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	253.5	3.207	0.5	0.51	0.336	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	253.5	3.213	0.5	0.51	0.335	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	253.5	3.213	0.5	0.51	0.335	502.179
1268	24-1-03	24-1-13	8	198.997	0.01	253.5	3.215	0.5	0.5	0.335	502.62
1272	24-1-08	24-2-54	8	112.394	0.01	253.5	3.215	0.5	0.5	0.335	502.578
1273	24-1-13	24-1-05	8	257.402	0.01	253.5	3.216	0.5	0.5	0.335	502.741
1270	24-1-06	24-1-07	8	97.95	0.01	253.5	3.22	0.5	0.5	0.335	503.589
1110	19-3-26	19-4-44	8	285.064	0.01	308.5	3.958	0.5	0.5	0.332	621.212

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1196	20-3-04	20-3-01	12	110.258	0.01	861.1	4.925	0.5	0.5	0.497	1,740.95
1054	19-1-29	19-1-28	8	438.473	0.01	276.4	3.577	0.5	0.49	0.33	563.01
1230	21-2-22	21-2-06	18	1,831.00	0.01	2,456.50	6.357	0.49	0.48	0.735	5,086.60
1053	19-1-28	19-1-27	8	259.296	0.01	276.4	3.635	0.49	0.48	0.326	575.095
1223	21-2-01	21-2-02	18	518.06	0.01	2,456.50	6.414	0.49	0.48	0.73	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	2,456.50	6.418	0.49	0.48	0.729	5,150.85
1242	21-3-12	21-3-17	12	222.893	0	327.8	1.927	0.49	0.48	0.486	687.646
1202	20-3-15	20-3-06	12	203.572	0.01	707.5	4.165	0.49	0.48	0.486	1,486.56
968	17-2-11	17-2-12	12	104.09	0.01	526.8	3.11	0.49	0.47	0.485	1,111.22
1159	20-1-07	20-1-06	18	1,319.26	0.01	2,432.00	6.398	0.48	0.47	0.726	5,147.03
1200	20-3-10	20-3-08	12	348.384	0.01	689.9	4.089	0.48	0.47	0.483	1,462.82
963	17-2-06	17-2-07	12	101.697	0.01	526.8	3.138	0.48	0.47	0.481	1,124.22
964	17-2-07	17-2-08	12	334.55	0.01	526.8	3.162	0.48	0.46	0.478	1,136.18
1166	20-1-34	20-1-30	12	354.986	0	372.7	2.245	0.48	0.46	0.477	807.304
962	17-2-05	17-2-06	12	232.966	0.01	526.8	3.202	0.47	0.46	0.474	1,155.49
1163	20-1-25	20-1-20	12	169.112	0	392.9	2.409	0.47	0.45	0.471	871.805
1155	19-4-49	19-4-48	8	250.077	0	154.7	2.137	0.47	0.45	0.313	343.876
1380	30-1-41	30-1-19	8	354.251	0	154.7	2.139	0.47	0.45	0.313	344.293
967	17-2-10	17-2-11	12	218.347	0.01	526.8	3.25	0.47	0.45	0.468	1,178.66
971	17-2-14	PWPS	12	184.844	0.01	526.8	3.275	0.47	0.44	0.466	1,191.02
1180	20-2-21	20-2-17	15	187.297	0.01	1,326.90	5.285	0.47	0.44	0.582	3,004.01
965	17-2-08	17-2-09	12	306.365	0.01	526.8	3.289	0.46	0.44	0.464	1,197.84
1199	20-3-08	20-3-15	12	166.018	0.01	707.5	4.493	0.46	0.43	0.458	1,646.13
1165	20-1-30	20-1-26	12	354.769	0	382.8	2.435	0.46	0.43	0.457	892.782
994	17-3-04	17-2-05	12	221.097	0.01	526.8	3.353	0.46	0.43	0.457	1,229.42
1364	29-3-17	29-3-18	10	402.175	0	265.9	2.441	0.46	0.43	0.381	621.901
1157	19-4-51	G&OADD2	8	411.715	0.02	308.5	4.459	0.45	0.42	0.303	729.048
1365	29-3-18	29-1-21	10	398.124	0	265.9	2.506	0.45	0.41	0.373	644.294
1162	20-1-20	20-1-19	12	160.958	0	402.8	2.642	0.45	0.41	0.447	978.905
1349	29-1-17	29-1-16	10	418.361	0	265.9	2.513	0.45	0.41	0.372	646.739
1386	30-2-13	30-2-12	10	215.752	0	253.803	2.413	0.45	0.41	0.37	622.502
1168	20-1-39	20-1-38	12	255.284	0	362.6	2.41	0.44	0.4	0.442	897.542
1353	29-1-21	29-1-20	10	402.791	0	265.9	2.548	0.44	0.4	0.368	659.121
1258	21-4-09	21-4-08	8	50.49	0.01	193.5	2.917	0.44	0.4	0.293	484.022
1164	20-1-26	20-1-25	12	169.233	0	392.9	2.727	0.43	0.38	0.428	1,031.17
1312	28-1-12	28-1-11	8	281.382	0	129.4	2.023	0.43	0.38	0.285	340.007
1289	27-2-02	27-2-01	8	113.774	0.01	193.5	3.031	0.43	0.38	0.285	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	193.5	3.032	0.43	0.38	0.285	510.101

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1264	21-4-21	21-4-20	8	149.173	0.01	193.5	3.072	0.42	0.37	0.282	519.235
1111	19-3-27	19-3-26	8	266.061	0.02	308.5	4.919	0.42	0.37	0.281	832.801
1259	21-4-10	21-4-11	8	31.731	0.01	193.5	3.113	0.42	0.37	0.279	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	193.5	3.118	0.42	0.37	0.279	530.03
961	17-2-04	17-3-01	12	345.616	0.01	516.6	3.704	0.42	0.37	0.418	1,417.12
1098	19-2-62	19-2-39	8	362.45	0	94.1	1.52	0.42	0.36	0.278	258.656
1154	19-4-48	19-4-47	8	241.949	0.01	154.7	2.512	0.42	0.36	0.277	428.176
1024	18-4-25	18-4-24	8	397.125	0.01	170.2	2.77	0.42	0.36	0.277	472.646
1204	20-4-07	20-4-06	12	397.849	0	353.3	2.562	0.41	0.36	0.414	984.482
1022	18-4-23	17-2-01	8	384.354	0.01	170.2	2.804	0.41	0.35	0.274	480.434
991	17-3-01	17-3-02	12	318.869	0.01	516.6	3.815	0.41	0.35	0.409	1,475.36
1023	18-4-24	18-4-23	8	399.081	0.01	170.2	2.832	0.41	0.35	0.272	486.949
1203	20-4-06	20-1-39	12	392	0	353.3	2.638	0.41	0.35	0.405	1,024.33
1052	19-1-27	19-1-26	8	403.413	0.02	276.4	4.651	0.41	0.34	0.27	803.166
1290	27-2-03	27-2-02	8	149.302	0.01	193.5	3.259	0.4	0.34	0.27	562.945
1167	20-1-38	20-1-34	12	191.441	0.01	362.6	2.797	0.4	0.33	0.395	1,099.32
998	18-1-04	18-1-03	12	300.784	0	346.4	2.679	0.4	0.33	0.395	1,054.06
1216	20-4-42	20-4-07	12	329.641	0.01	353.3	2.745	0.39	0.33	0.393	1,081.55
1005	18-1-11	18-1-18	8	149.044	0	115	2.062	0.39	0.32	0.257	364.602
1099	19-2-71	19-2-62	8	185.256	0	94.1	1.712	0.38	0.31	0.255	304.275
1021	18-4-05	18-4-26	8	297.552	0.01	170.2	3.115	0.38	0.31	0.253	555.058
1150	19-4-44	19-4-51	8	213.037	0.04	308.5	5.678	0.38	0.3	0.252	1,013.51
1300	27-2-19	27-2-18	8	77.095	0.01	180.8	3.327	0.38	0.3	0.252	594.046
1001	18-1-07	18-1-06	12	453.25	0.01	346.4	2.841	0.38	0.3	0.378	1,142.13
1362	29-3-15	29-3-16	8	237.428	0.03	265.9	4.914	0.38	0.3	0.252	878.756
1025	18-4-26	18-4-25	8	396.401	0.01	170.2	3.188	0.37	0.3	0.249	572.925
2	17-4-01	20-2-04	12	1,022.00	0.02	652.3	5.454	0.37	0.3	0.372	2,209.01
1359	29-3-12	29-3-13	8	328.996	0.03	265.9	5.008	0.37	0.3	0.248	901.92
1305	28-1-01	21-4-04	8	383.288	0.01	129.4	2.438	0.37	0.3	0.248	439.184
1026	18-4-27	18-4-05	8	370.385	0.01	170.2	3.241	0.37	0.29	0.246	585.931
1257	21-4-08	21-4-07	8	139.743	0.02	193.5	3.686	0.37	0.29	0.246	666.628
970	17-2-13	17-2-14	12	53.433	0.01	526.8	4.496	0.37	0.29	0.367	1,835.12
999	18-1-05	18-1-04	12	206.235	0.01	346.4	2.985	0.36	0.28	0.364	1,223.01
960	17-2-03	17-2-04	12	237.625	0.01	516.6	4.517	0.36	0.28	0.36	1,860.59
992	17-3-02	17-3-03	12	398.981	0.02	526.8	4.669	0.36	0.27	0.357	1,933.12
1183	20-2-29	20-2-28	15	69.913	0.03	1,319.30	7.484	0.36	0.27	0.446	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	1,319.30	7.487	0.36	0.27	0.446	4,845.04
1114	19-3-31	19-3-30	8	104.645	0	91.2	1.825	0.36	0.27	0.237	336.21

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
966	17-2-09	17-2-10	12	472.423	0.02	526.8	4.701	0.36	0.27	0.355	1,951.66
1316	28-1-19	21-4-24	8	358.022	0.02	193.5	3.898	0.35	0.27	0.236	720.218
959	17-2-02	17-2-03	12	400.873	0.01	516.6	4.636	0.35	0.27	0.353	1,928.56
1377	30-1-18	19-4-45	8	350.408	0.02	188.8	3.815	0.35	0.27	0.235	705.631
1115	19-3-32	19-3-31	8	403.213	0	91.2	1.845	0.35	0.27	0.235	341.484
1089	19-2-39	19-2-40	8	218.916	0	94.1	1.905	0.35	0.27	0.235	352.528
1112	19-3-28	30-2-13	8	269.428	0	91.2	1.85	0.35	0.27	0.235	342.696
1284	24-4-26	24-4-27	8	230.476	0	91.2	1.854	0.35	0.27	0.234	343.574
1285	24-4-27	19-3-32	8	415.524	0	91.2	1.854	0.35	0.27	0.234	343.712
1283	24-4-25	24-4-26	8	399.92	0	91.2	1.855	0.35	0.27	0.234	343.964
1282	24-4-24	24-4-25	8	297.246	0	91.2	1.855	0.35	0.27	0.234	344.076
958	17-2-01	17-2-02	12	399.079	0.02	516.6	4.672	0.35	0.27	0.351	1,949.48
1287	24-4-39	24-4-34	8	662.433	0	91.2	1.885	0.35	0.26	0.232	351.648
997	18-1-03	18-1-21	12	510.506	0.01	346.4	3.232	0.34	0.25	0.343	1,364.97
995	18-1-01	17-2-01	12	406.186	0.01	346.4	3.254	0.34	0.25	0.342	1,377.91
1355	29-2-43	30-1-20	8	362.02	0.01	154.7	3.333	0.34	0.25	0.225	632.015
1379	30-1-20	30-1-41	8	66.423	0.01	154.7	3.337	0.34	0.24	0.224	632.995
993	17-3-03	17-3-04	12	281.199	0.02	526.8	5.057	0.34	0.24	0.336	2,159.23
1367	30-1-04	30-1-05	8	389.779	0.01	96.1	2.096	0.33	0.24	0.223	399.153
1008	18-1-21	18-1-02	12	145.768	0.01	346.4	3.384	0.33	0.24	0.332	1,454.73
1392	30-2-18	30-2-17	10	372.265	0.01	179.8	2.557	0.33	0.24	0.275	766.539
1391	30-2-17	30-2-16	10	64.408	0.01	179.8	2.582	0.33	0.23	0.273	777.014
1113	19-3-30	19-3-28	8	590.482	0.01	91.2	2.051	0.33	0.23	0.218	395.288
1000	18-1-06	18-1-05	12	395.427	0.01	346.4	3.474	0.33	0.23	0.326	1,508.42
1004	18-1-10	18-1-11	8	343.962	0.01	115	2.605	0.33	0.23	0.217	503.61
1381	30-1-45	30-1-03	8	116.402	0.01	96.1	2.18	0.33	0.23	0.216	421.703
1151	19-4-45	G&OADD2	8	185.247	0.02	188.8	4.354	0.32	0.22	0.214	847.557
1376	30-1-17	30-1-18	8	382.118	0.03	188.8	4.391	0.32	0.22	0.213	857.437
1374	30-1-15	30-1-16	8	321.214	0.03	188.8	4.433	0.32	0.22	0.211	868.858
1206	20-4-13	20-4-12	12	193.1	0.01	353.3	3.696	0.32	0.22	0.316	1,631.72
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1398	30-2-32	30-2-14	10	143.05	0.01	179.8	2.733	0.31	0.21	0.262	840.701
1205	20-4-12	20-4-42	12	178.123	0.01	353.3	3.735	0.31	0.21	0.314	1,655.92
1003	18-1-09	18-1-10	8	367.771	0.01	115	2.759	0.31	0.21	0.208	545.445
996	18-1-02	18-1-01	12	256.223	0.01	346.4	3.794	0.31	0.2	0.306	1,705.73
1291	27-2-04	27-2-03	8	178.715	0.03	193.5	4.782	0.31	0.2	0.203	956.58
1354	29-1-28	20-4-18	10	434.841	0.02	265.9	4.239	0.3	0.2	0.253	1,328.98

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1286	24-4-34	24-4-24	8	208.15	0.01	91.2	2.282	0.3	0.2	0.202	458.545
1002	18-1-08	18-1-09	8	365.984	0.01	115	2.912	0.3	0.2	0.2	588.071
1232	21-3-02	21-3-01	15	203.266	0.01	454	3.291	0.3	0.19	0.373	2,342.65
1148	19-4-42	19-4-22	10	349.211	0.01	154.7	2.528	0.3	0.19	0.248	800.183
1051	19-1-26	19-1-22	12	329.458	0.01	294.7	3.353	0.3	0.19	0.297	1,529.97
1352	29-1-20	29-1-19	10	419.219	0.02	265.9	4.39	0.3	0.19	0.246	1,395.69
1251	21-4-02	G&OADD1	12	377.409	0.01	322.9	3.716	0.3	0.19	0.295	1,703.41
1296	27-2-10	27-2-11	8	230.854	0.03	180.8	4.7	0.29	0.19	0.196	959.031
1260	21-4-11	21-4-09	8	350.326	0.04	193.5	5.083	0.29	0.19	0.195	1,041.49
1356	29-3-09	29-3-10	8	251.525	0.07	265.9	7.045	0.29	0.18	0.193	1,448.66
1297	27-2-11	27-2-12	8	180.846	0.03	180.8	4.795	0.29	0.18	0.193	986.377
1396	30-2-23	30-2-21	10	196.778	0.01	179.8	3.065	0.29	0.18	0.241	986.537
1047	19-1-22	19-1-16	12	505.438	0.01	338.8	4.011	0.29	0.18	0.289	1,859.70
1328	28-3-12	28-4-02	8	320.055	0.01	91	2.43	0.29	0.18	0.192	501.316
1358	29-3-11	29-3-12	8	279.115	0.08	265.9	7.195	0.29	0.18	0.191	1,491.62
1017	18-4-01	18-1-07	12	39.831	0.02	346.4	4.203	0.28	0.18	0.284	1,967.82
1262	21-4-19	21-4-18	8	208.771	0.04	193.5	5.296	0.28	0.18	0.189	1,103.06
1020	18-4-04	18-4-03	12	384.556	0.01	258.8	3.163	0.28	0.17	0.283	1,485.25
1235	21-3-05	21-3-04	15	509.884	0.01	454	3.553	0.28	0.17	0.353	2,606.80
1006	18-1-18	18-1-19	10	107.771	0.01	115	2.035	0.28	0.17	0.235	664.837
1350	29-1-18	29-1-17	10	201.851	0.03	265.9	4.737	0.28	0.17	0.233	1,551.81
1019	18-4-03	18-4-02	12	506.848	0.01	258.8	3.202	0.28	0.17	0.28	1,510.74
1361	29-3-14	29-3-15	8	241.785	0.09	265.9	7.508	0.28	0.17	0.185	1,583.44
973	17-2-16	17-2-17	10	217.198	0.01	115	2.08	0.28	0.17	0.231	685.544
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	180.8	5.16	0.28	0.17	0.183	1,092.97
1390	30-2-16	30-2-15	10	360.927	0.01	179.8	3.302	0.27	0.16	0.228	1,094.81
1256	21-4-07	21-4-06	8	60.782	0.05	193.5	5.604	0.27	0.16	0.181	1,193.95
1357	29-3-10	29-3-11	8	398.375	0.09	265.9	7.757	0.27	0.16	0.181	1,657.27
1218	21-1-02	WRFHEADWORKS	18	50	0.11	2,456.50	14.396	0.27	0.16	0.401	15,678.35
1318	28-1-29	28-1-20	8	363.951	0.05	193.5	5.743	0.27	0.16	0.178	1,235.61
1011	18-3-32	18-3-33	12	211.336	0	87.6	1.16	0.27	0.16	0.267	562.37
1261	21-4-18	21-4-10	8	249.725	0.05	193.5	5.811	0.27	0.15	0.177	1,256.39
975	17-2-18	17-2-19	10	144.435	0.01	115	2.221	0.26	0.15	0.22	751.922
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1041	19-1-16	20-2-38	15	446.292	0.01	370.6	3.253	0.26	0.15	0.325	2,499.76
1156	19-4-50	19-4-49	8	393.949	0.04	154.7	4.808	0.26	0.15	0.173	1,054.02
1250	G&OADD1	21-3-12	12	389.309	0.02	327.8	4.546	0.26	0.15	0.258	2,246.06
1389	30-2-15	30-2-32	10	284.705	0.02	179.8	3.593	0.26	0.15	0.215	1,232.68
1241	21-3-11	21-3-31	12	144.196	0.02	333.3	4.642	0.26	0.15	0.257	2,297.16
1090	19-2-40	19-2-44	8	389.205	0.01	94.1	2.959	0.26	0.14	0.171	651.712
1288	27-2-01	28-1-31	8	255.578	0.06	193.5	6.085	0.26	0.14	0.171	1,340.06
1046	19-1-21	19-1-20	8	60.527	0	31.8	1.003	0.26	0.14	0.171	221.037
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1209	20-4-17	20-4-16	10	315.244	0.06	353.3	7.134	0.26	0.14	0.213	2,458.52
1133	19-4-11	19-4-09	8	444.228	0.01	74.9	2.388	0.25	0.14	0.17	528.762
1253	21-4-04	21-4-03	12	799.3	0	129.4	1.835	0.25	0.14	0.254	914.436
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1360	29-3-13	29-3-14	8	236.006	0.12	265.9	8.516	0.25	0.14	0.169	1,889.73
1221	21-1-09	21-1-08	18	282.589	0.01	535.2	3.387	0.25	0.14	0.38	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	535.2	3.391	0.25	0.14	0.38	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	535.2	3.391	0.25	0.14	0.38	3,810.51
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
1394	30-2-20	30-2-19	10	277.422	0.02	179.8	3.703	0.25	0.14	0.21	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	179.8	3.704	0.25	0.14	0.21	1,286.47
1240	21-3-10	21-3-05	15	274.714	0.01	445.7	4.099	0.25	0.14	0.315	3,210.21
980	17-2-23	17-2-24	10	299.088	0.01	115	2.392	0.25	0.14	0.209	834.02
1131	19-4-08	19-4-07	8	699.032	0.01	74.9	2.437	0.25	0.14	0.167	544.176
1009	18-3-01	18-4-04	12	36.125	0.01	258.8	3.751	0.25	0.14	0.25	1,886.27
987	17-2-30	17-2-33	10	267.515	0.01	115	2.407	0.25	0.14	0.208	841.806
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
981	17-2-24	17-2-25	10	296.445	0.01	115	2.415	0.25	0.14	0.208	845.522
982	17-2-25	17-2-26	10	346.589	0.01	115	2.415	0.25	0.14	0.208	845.73
986	17-2-29	17-2-30	10	242.085	0.01	115	2.425	0.25	0.14	0.207	850.2
1229	21-2-21	21-2-08	8	2,869.51	0	23.2	0.765	0.25	0.14	0.166	171.68
1373	30-1-14	30-1-15	8	262.922	0.07	188.8	6.229	0.25	0.14	0.165	1,398.95
979	17-2-22	17-2-23	10	296.781	0.01	115	2.43	0.25	0.14	0.207	852.761
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
983	17-2-26	17-2-27	10	268.744	0.01	115	2.459	0.25	0.13	0.205	867.423
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1130	19-4-07	19-4-06	8	605.46	0.01	74.9	2.522	0.25	0.13	0.163	571.195
1403	30-3-05	30-3-04	8	115.798	0.01	48.1	1.634	0.24	0.13	0.162	371.352

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1395	30-2-21	30-2-20	10	217.583	0.02	179.8	3.921	0.24	0.13	0.202	1,394.12
1248	21-3-31	21-3-10	12	133.4	0.03	333.3	5.061	0.24	0.13	0.242	2,593.32
1013	18-3-35	18-3-36	12	292.402	0	87.6	1.34	0.24	0.13	0.241	689.014
1132	19-4-09	19-4-08	8	681.983	0.01	74.9	2.601	0.24	0.13	0.16	596.292
1369	30-1-06	30-1-08	8	302.642	0.05	144.2	5.009	0.24	0.13	0.16	1,148.53
1348	29-1-16	29-1-07	10	187.628	0.05	265.9	5.921	0.24	0.13	0.199	2,123.14
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	477.2	3.28	0.24	0.13	0.358	3,811.19
1370	30-1-07	30-1-06	8	418.833	0.01	48.1	1.677	0.24	0.13	0.159	385.06
1027	19-1-01	18-4-27	8	420.515	0.01	61.9	2.16	0.24	0.13	0.159	496.115
1227	21-2-07	21-1-10	18	102.071	0.01	477.2	3.292	0.24	0.13	0.358	3,829.92
1338	28-4-02	28-1-14	8	424.758	0.02	91	3.198	0.24	0.12	0.158	736.912
978	17-2-21	17-2-22	10	242.47	0.01	115	2.615	0.24	0.12	0.196	945.568
1244	21-3-17	21-3-11	12	186.646	0.03	327.8	5.216	0.23	0.12	0.234	2,724.62
1311	28-1-11	28-1-10	12	243.143	0.01	129.4	2.063	0.23	0.12	0.234	1,078.42
1228	21-2-11	21-2-08	18	760.617	0.01	454	3.228	0.23	0.12	0.35	3,801.93
1231	21-3-01	21-2-11	18	324.763	0.01	454	3.233	0.23	0.12	0.35	3,810.33
1016	18-3-38	18-3-35	12	253.099	0	87.6	1.42	0.23	0.12	0.231	747.408
1210	20-4-18	20-4-17	10	22.66	0.05	265.9	6.207	0.23	0.12	0.193	2,268.95
1129	19-4-06	20-3-07	8	70.467	0.01	74.9	2.758	0.23	0.12	0.153	647.808
1382	30-2-01	30-1-07	8	267.898	0.01	48.1	1.784	0.23	0.11	0.152	420.257
1018	18-4-02	18-4-01	12	189.934	0.02	258.8	4.275	0.23	0.11	0.228	2,267.84
1375	30-1-16	30-1-17	8	373.616	0.09	188.8	7.033	0.23	0.11	0.152	1,659.65
1014	18-3-36	18-3-37	12	346.739	0	87.6	1.451	0.23	0.11	0.228	770.132
1372	30-1-11	30-1-14	8	265.862	0.06	144.2	5.392	0.23	0.11	0.151	1,274.35
1275	24-1-15	24-1-14	12	431.609	0.02	253.5	4.226	0.23	0.11	0.227	2,250.02
976	17-2-19	17-2-20	10	293.842	0.01	115	2.764	0.23	0.11	0.189	1,022.48
1036	19-1-11	19-1-10	10	263.273	0	56.8	1.372	0.23	0.11	0.188	508.411
1368	30-1-05	30-1-06	8	198.059	0.03	96.1	3.638	0.23	0.11	0.15	864.026
1010	18-3-10	18-3-01	12	398.208	0.02	258.8	4.395	0.22	0.11	0.224	2,357.59
984	17-2-27	17-2-28	10	226.538	0.01	115	2.813	0.22	0.11	0.186	1,048.14
989	17-2-32	PWPS	10	30.835	0.01	115	2.817	0.22	0.11	0.186	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	115	2.823	0.22	0.11	0.186	1,053.41
985	17-2-28	17-2-29	10	221.792	0.01	115	2.834	0.22	0.11	0.185	1,059.29
1378	30-1-19	19-4-50	8	139.234	0.07	154.7	5.976	0.22	0.11	0.148	1,431.63
1306	28-1-02	28-1-01	8	247.684	0.05	129.4	5.056	0.22	0.11	0.147	1,216.75
1346	29-1-06	29-1-05	10	254.333	0.07	265.9	6.713	0.22	0.11	0.182	2,534.09
1388	30-2-14	30-2-13	10	491.303	0.03	179.8	4.542	0.22	0.11	0.182	1,714.76
1233	21-3-03	21-3-02	15	273.312	0.02	454	5.137	0.22	0.1	0.272	4,378.42

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
977	17-2-20	17-2-21	10	216.023	0.01	115	2.986	0.21	0.1	0.179	1,140.43
1198	20-3-07	20-3-06	8	454.124	0.02	74.9	3.107	0.21	0.1	0.141	766.399
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
990	17-2-33	17-2-31	10	99.544	0.02	115	3.077	0.21	0.1	0.175	1,190.00
1122	19-3-46	19-3-44	8	148.328	0	32.3	1.377	0.21	0.09	0.138	343.549
1123	19-3-47	19-3-46	8	301.624	0	32.3	1.378	0.21	0.09	0.138	343.858
1276	24-1-16	24-1-15	12	354.375	0.03	253.5	4.813	0.21	0.09	0.207	2,704.08
1092	19-2-46	19-2-53	10	355.676	0.01	94.1	2.574	0.21	0.09	0.172	1,004.28
1037	19-1-12	19-1-11	8	136.141	0.01	56.8	2.432	0.21	0.09	0.138	607.673
1007	18-1-19	17-2-16	10	85.069	0.02	115	3.213	0.2	0.09	0.17	1,264.88
1207	20-4-15	20-4-13	12	195.888	0.06	353.3	6.895	0.2	0.09	0.203	3,918.42
1329	28-3-14	28-3-12	8	340.805	0.04	91	4.031	0.2	0.09	0.134	1,021.69
1343	29-1-02	29-1-28	10	420.998	0.09	265.9	7.573	0.2	0.09	0.168	3,004.81
1015	18-3-37	18-4-01	12	274.98	0	87.6	1.733	0.2	0.09	0.201	990.753
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1063	19-1-38	19-1-37	8	334.348	0.01	31.8	1.462	0.2	0.09	0.131	376.183
1308	28-1-04	28-1-03	8	163.086	0.08	129.4	5.96	0.2	0.08	0.131	1,535.33
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1366	30-1-03	30-1-04	8	322.785	0.04	96.1	4.438	0.2	0.08	0.131	1,144.59
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
988	17-2-31	17-2-32	10	34.461	0.02	115	3.461	0.19	0.08	0.161	1,405.25
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1031	19-1-05	19-1-04	10	303.991	0.01	56.8	1.746	0.19	0.08	0.159	715.317
1347	29-1-07	29-1-06	10	262.001	0.12	265.9	8.182	0.19	0.08	0.159	3,353.04
1371	30-1-08	30-1-11	8	56.083	0.11	144.2	6.944	0.19	0.08	0.127	1,822.60
1030	19-1-04	19-1-03	10	300.714	0.01	56.8	1.753	0.19	0.08	0.158	719.204
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1310	28-1-10	28-1-09	12	230.353	0.01	129.4	2.811	0.19	0.08	0.188	1,670.30
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
1408	30-4-03	30-4-02	8	394.827	0.06	96.1	4.873	0.18	0.07	0.122	1,306.78
1045	19-1-20	19-1-38	8	252.835	0.01	31.8	1.613	0.18	0.07	0.122	432.594
1315	28-1-14	28-1-13	8	328.472	0.05	91	4.635	0.18	0.07	0.122	1,245.47
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1033	19-1-07	19-1-06	10	91.805	0.01	56.8	1.885	0.18	0.07	0.151	797.098
1029	19-1-03	19-1-02	10	300.714	0.01	56.8	1.929	0.18	0.07	0.148	823.951
1094	19-2-53	18-3-10	12	1,094.58	0.01	94.1	2.284	0.17	0.07	0.174	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	48.1	2.63	0.17	0.07	0.116	727.923

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1383	30-2-02	30-2-01	8	366.127	0.02	48.1	2.651	0.17	0.07	0.115	736.18
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1135	19-4-13	19-4-12	8	327.186	0.01	32.3	1.802	0.17	0.06	0.114	503.061
1344	29-1-03	29-1-02	10	553.688	0.18	265.9	9.548	0.17	0.06	0.143	4,173.42
1028	19-1-02	19-1-01	10	265.303	0.01	56.8	2.05	0.17	0.06	0.142	897.861
1234	21-3-04	21-3-03	15	400.893	0.06	454	7.32	0.17	0.06	0.212	7,230.42
1401	30-3-03	30-3-02	8	313.231	0.02	48.1	2.728	0.17	0.06	0.113	766.921
1351	29-1-19	29-1-18	10	127.562	0.19	265.9	9.713	0.17	0.06	0.141	4,276.76
1208	20-4-16	20-4-15	12	367.616	0.13	353.3	9.011	0.17	0.06	0.168	5,726.79
1340	28-4-04	28-4-03	8	400.195	0.08	91	5.311	0.17	0.06	0.111	1,511.06
1044	19-1-19	19-1-18	8	188.782	0.01	31.8	1.863	0.17	0.06	0.111	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	31.8	1.865	0.17	0.06	0.111	531.765
1406	30-4-01	30-1-45	8	298.989	0.09	96.1	5.659	0.17	0.06	0.11	1,615.90
1400	30-3-02	30-3-01	8	281.493	0.02	48.1	2.833	0.17	0.06	0.11	809.001
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1307	28-1-03	28-1-02	8	155.436	0.17	129.4	7.718	0.16	0.06	0.109	2,215.51
1330	28-3-15	28-3-14	8	202.922	0.08	91	5.444	0.16	0.06	0.109	1,564.69
1402	30-3-04	30-3-03	8	249.614	0.03	48.1	2.955	0.16	0.06	0.107	859.109
1137	19-4-18	19-4-17	8	372.632	0.01	32.3	1.986	0.16	0.06	0.107	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	32.3	1.989	0.16	0.06	0.107	578.662
1407	30-4-02	30-4-01	8	403.34	0.1	96.1	5.977	0.16	0.06	0.106	1,746.43
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1331	28-3-17	28-3-15	8	415.509	0.11	91	5.933	0.15	0.05	0.103	1,768.60
1034	19-1-08	19-1-07	10	303.907	0.01	56.8	2.411	0.15	0.05	0.127	1,131.17
1339	28-4-03	28-3-17	8	355.875	0.12	91	6.22	0.15	0.05	0.099	1,891.81
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1120	19-3-43	19-3-34	8	277.631	0.02	32.3	2.323	0.14	0.05	0.096	721.704
1032	19-1-06	19-1-05	10	215.234	0.02	56.8	2.623	0.14	0.05	0.12	1,275.16
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237
1345	29-1-05	29-1-03	10	176.995	0.38	265.9	12.437	0.14	0.04	0.119	6,079.90

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1035	19-1-10	19-1-08	10	267.538	0.02	56.8	2.688	0.14	0.04	0.118	1,320.68
1136	19-4-17	19-4-13	8	239.707	0.02	32.3	2.447	0.14	0.04	0.093	777.493
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259
1042	19-1-17	19-1-16	8	442.425	0.02	31.8	2.432	0.14	0.04	0.092	775.604
1404	30-3-06	30-3-05	8	479.243	0.05	48.1	3.681	0.14	0.04	0.092	1,174.62
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1012	18-3-33	18-3-38	12	234.47	0.02	87.6	3.04	0.14	0.04	0.136	2,201.35
1245	21-3-28	21-3-10	18	171.574	0	112.4	1.808	0.13	0.04	0.198	2,997.81
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1121	19-3-44	19-3-43	8	212.155	0.03	32.3	2.761	0.13	0.04	0.085	923.609
1309	28-1-09	28-1-04	12	242.622	0.05	129.4	4.927	0.13	0.04	0.128	3,711.32
1219	21-1-06	WRFHEADWORKS	18	50	0.11	535.2	9.192	0.13	0.03	0.19	15,678.35
1117	19-3-34	19-3-33	8	161.198	0.03	32.3	2.81	0.13	0.03	0.084	947.138
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1327	28-2-26	21-3-43	8	787.743	0.03	28.4	2.698	0.12	0.03	0.079	944.431
1237	21-3-07	21-3-13	18	111.052	0	84	1.648	0.12	0.03	0.173	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	84	1.649	0.12	0.03	0.173	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	84	1.653	0.12	0.03	0.173	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	84	1.654	0.12	0.03	0.173	2,990.43
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1405	30-3-07	30-3-06	8	183.457	0.13	48.1	5.33	0.11	0.02	0.071	1,992.53
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1062	19-1-37	19-1-19	8	25.33	0.06	31.8	3.615	0.11	0.02	0.07	1,366.73
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037
1313	28-1-13	28-1-12	12	301.095	0.07	91	4.836	0.1	0.02	0.102	4,203.92
1116	19-3-33	19-4-18	8	61.971	0.08	32.3	3.92	0.1	0.02	0.067	1,524.43

TABLE E-15

City of Sequim 2032 Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1246	21-3-29	21-3-28	10	393.116	0.02	28.4	2.318	0.1	0.02	0.081	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	28.4	3.694	0.1	0.02	0.064	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	129.4	10.956	0.07	0.01	0.074	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	28.4	3.568	0.07	0.01	0.061	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	28.4	3.578	0.07	0.01	0.06	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	28.4	3.645	0.07	0.01	0.06	2,752.41
1038	19-1-13	19-1-01	8	398.608	0.01	5.1	1.065	0.07	0.01	0.046	523.922
1249	21-3-43	21-3-30	10	75.939	0.1	28.4	3.949	0.07	0.01	0.057	3,088.26
1039	19-1-14	19-1-13	8	374.258	0.01	5.1	1.128	0.07	0.01	0.045	569.174
1040	19-1-15	19-1-14	8	399.382	0.01	5.1	1.222	0.06	0.01	0.042	638.155
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
WITH Carlsborg Flows									
19-2-15	2000	852.7	852.7	0	326.363	Not Full	No	1673.64	118.967
19-2-14	2000	0	0	0	326.769	Not Full	No	1673.23	117.902
19-2-12	2000	0	0	0	327.256	Not Full	No	1672.74	116.679
19-2-11	2000	0	0	0	327.949	Not Full	No	1672.05	114.873
19-2-10	2000	0	0	0	328.269	Not Full	No	1671.73	114.042
19-2-56	2000	0	0	0	329.326	Not Full	No	1670.67	111.299
24-2-54	2000	0	0	0	330.291	Not Full	No	1669.71	108.784
24-1-08	2000	0	0	0	330.556	Not Full	No	1669.44	108.089
24-1-07	2000	0	0	0	331.385	Not Full	No	1668.62	105.958
24-1-06	2000	0	0	0	331.615	Not Full	No	1668.39	105.348
24-1-26	2000	0	0	0	332.296	Not Full	No	1667.7	103.61
19-2-16	2000	0	0	0	306.673	Not Full	No	1693.33	103.216
24-1-05	2000	0	0	0	333.167	Not Full	No	1666.83	101.381
24-1-13	2000	0	0	0	333.773	Not Full	No	1666.23	99.786
24-1-03	2000	0	0	0	334.241	Not Full	No	1665.76	98.554
24-1-02	2000	0	0	0	335.062	Not Full	No	1664.94	96.445
24-1-01	2000	0	0	0	335.92	Not Full	No	1664.08	94.233
24-1-14	2000	0	0	0	336.439	Not Full	No	1663.56	92.872
19-2-54	2000	0	0	0	292.726	Not Full	No	1707.27	92.059
19-2-59	2000	0	0	0	287.54	Not Full	No	1712.46	87.884
24-1-15	2000	0	0	0	336.556	Not Full	No	1663.44	84.156
19-2-17	2000	0	0	0	278.511	Not Full	No	1721.49	80.745
24-1-16	2000	263.3	263.3	0	336.652	Not Full	No	1663.35	74.172
19-1-30	2000	0	0	0	245.21	Not Full	No	1754.79	54.143
19-1-34	2000	0	0	0	245.21	Not Full	No	1754.79	50.243
19-1-35	2000	0	0	0	245.21	Not Full	No	1754.79	45.983
19-1-36	2000	0	0	0	245.21	Not Full	No	1754.79	41.733
19-1-29	2000	6.2	6.2	0	216.529	Not Full	No	1783.47	30.662
20-1-06	2000	24.5	24.5	0	119.046	Not Full	No	1880.95	21.419
19-1-28	2000	0	0	0	197.789	Not Full	No	1802.21	16.623
20-1-19	2000	0	0	0	129.339	Not Full	Yes	1870.66	14.489
20-1-20	2000	9.9	9.9	0	129.442	Not Full	No	1870.56	14.242
20-1-51	2000	0	0	0	133.392	Not Full	No	1866.61	13.912
20-1-25	2000	0	0	0	129.546	Not Full	No	1870.45	13.846
20-1-26	2000	10.1	10.1	0	129.649	Not Full	No	1870.35	13.249
20-1-13	2000	0	0	0	127.162	Not Full	No	1872.84	12.812
20-1-30	2000	10.1	10.1	0	129.855	Not Full	No	1870.15	12.355
20-1-50	2000	0	0	0	136.144	Not Full	No	1863.86	12.044
20-1-34	2000	10.1	10.1	0	130.05	Not Full	No	1869.95	11.65
20-1-07	2000	0	0	0	125.616	Not Full	No	1874.38	11.516
20-1-38	2000	0	0	0	130.15	Not Full	No	1869.85	10.85
20-2-17	2000	7.6	7.6	0	148.539	Not Full	Yes	1851.46	10.229
20-1-49	2000	0	0	0	138.918	Not Full	No	1861.08	10.188

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-1-39	2000	9.3	9.3	0	130.283	Not Full	No	1869.72	10.183
20-2-46	2000	0	0	0	146.619	Not Full	No	1853.38	10.009
20-2-05	2000	0	0	0	144.744	Not Full	No	1855.26	9.894
20-2-04	2000	14.8	14.8	0	142.886	Not Full	No	1857.11	9.536
20-2-25	2000	7.6	7.6	0	150.489	Not Full	Yes	1849.51	9.479
20-2-06	2000	0	0	0	144.745	Not Full	No	1855.26	9.345
20-2-21	2000	0	0	0	149.62	Not Full	No	1850.38	9.31
20-4-06	2000	0	0	0	130.477	Not Full	No	1869.52	8.777
19-1-27	2000	0	0	0	186.708	Not Full	No	1813.29	8.441
20-2-07	2000	0	0	0	144.746	Not Full	No	1855.25	7.946
20-4-07	2000	0	0	0	130.673	Not Full	No	1869.33	7.473
20-2-08	2000	0	0	0	144.747	Not Full	No	1855.25	6.547
20-4-42	2000	0	0	0	130.837	Not Full	Yes	1869.16	6.137
20-2-09	2000	0	0	0	144.747	Not Full	No	1855.25	5.747
20-2-10	2000	0	0	0	144.748	Not Full	No	1855.25	4.348
20-4-12	2000	0	0	0	130.925	Not Full	No	1869.08	4.325
20-2-28	2000	0	0	0	151.996	Not Full	No	1848	3.686
20-3-11	2000	27.6	27.6	0	144.755	Not Full	No	1855.25	3.579
20-4-13	2000	0	0	0	131.02	Not Full	No	1868.98	2.42
20-2-29	2000	8.3	8.3	0	152.397	Not Full	No	1847.6	2.147
20-2-32	2000	9.3	9.3	0	154.281	Not Full	No	1845.72	1.931
20-2-34	2000	52.8	52.8	0	156.132	Not Full	No	1843.87	1.882
21-2-06	2000	0	0	0	58.486	Not Full	Yes	1941.51	1.786
19-4-22	2000	0	0	0	186.324	Not Full	Yes	1813.68	1.258
17-2-13	2,000.00	0	0	0	75.273	Not Full	No	1,924.73	0.853
27-2-05	2,000.00	12.7	12.7	0	235.318	Not Full	No	1,764.68	0.842
21-1-01	2,000.00	0	0	0	54.489	Not Full	No	1,945.51	0.839
17-2-14	2,000.00	0	0	0	75.211	Not Full	Yes	1,924.79	0.491
21-4-20	2,000.00	0	0	0	178.162	Not Full	Yes	1,821.84	0.456
19-4-25	2,000.00	0	0	0	201.043	Not Full	Yes	1,798.96	0.376
17-2-12	2,000.00	0	0	0	75.62	Not Full	No	1,924.38	0.2
20-3-01	2,000.00	0	0	0	167.871	Not Full	Yes	1,832.13	0.071
21-2-03	2,000.00	0	0	0	78.451	Not Full	Yes	1,921.55	0.051
19-2-44	2,000.00	0	0	0	176.72	Not Full	Yes	1,823.28	-0.147
30-2-25	2,000.00	0	0	0	258.765	Not Full	No	1,741.24	-0.162
19-4-23	2,000.00	0	0	0	192.805	Not Full	No	1,807.20	-0.162
30-2-12	2,000.00	37.5	37.5	0	261.044	Not Full	No	1,738.96	-0.163
19-4-24	2,000.00	0	0	0	200.304	Not Full	No	1,799.70	-0.163
30-2-11	2,000.00	0	0	0	260.033	Not Full	No	1,739.97	-0.164
19-4-26	2,000.00	0	0	0	205.694	Not Full	No	1,794.31	-0.173
20-3-06	2,000.00	0	0	0	170.955	Not Full	Yes	1,829.05	-0.178
19-4-32	2,000.00	0	0	0	212.975	Not Full	No	1,787.03	-0.192
19-4-27	2,000.00	0	0	0	209.573	Not Full	No	1,790.43	-0.194
19-4-33	2,000.00	35.3	35.3	0	215.767	Not Full	No	1,784.23	-0.199

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-34	2,000.00	0	0	0	219.136	Not Full	No	1,780.86	-0.23
19-4-47	2,000.00	0	0	0	187.61	Not Full	No	1,812.39	-0.257
19-4-40	2,000.00	2.6	2.6	0	225.21	Not Full	No	1,774.79	-0.257
19-4-46	2,000.00	0	0	0	187.36	Not Full	No	1,812.64	-0.257
G&OADD2	2,000.00	0	0	0	232.592	Not Full	No	1,767.41	-0.274
20-2-40	2,000.00	0	0	0	164.825	Not Full	Yes	1,835.18	-0.275
17-2-11	2,000.00	0	0	0	75.739	Not Full	No	1,924.26	-0.281
28-1-20	2,000.00	0	0	0	185.948	Not Full	Yes	1,814.05	-0.288
28-1-31	2,000.00	0	0	0	209.383	Not Full	Yes	1,790.62	-0.293
20-2-38	2,000.00	0	0	0	156.655	Not Full	Yes	1,843.35	-0.295
21-4-24	2,000.00	0	0	0	179.307	Not Full	Yes	1,820.69	-0.3
27-2-21	2,000.00	0	0	0	192.553	Not Full	No	1,807.45	-0.304
21-4-05	2,000.00	0	0	0	132.571	Not Full	Yes	1,867.43	-0.305
27-2-18	2,000.00	0	0	0	189.541	Not Full	Yes	1,810.46	-0.306
27-2-20	2,000.00	0	0	0	191.82	Not Full	No	1,808.18	-0.307
27-2-22	2,000.00	0	0	0	193.32	Not Full	No	1,806.68	-0.307
27-2-23	2,000.00	195.5	195.5	0	194.02	Not Full	No	1,805.98	-0.307
29-3-16	2,000.00	0	0	0	524.154	Not Full	No	1,475.85	-0.313
19-3-26	2,000.00	0	0	0	251.357	Not Full	No	1,748.64	-0.33
19-4-49	2,000.00	0	0	0	190.03	Not Full	Yes	1,809.97	-0.337
30-1-41	2,000.00	0	0	0	215.999	Not Full	Yes	1,784.00	-0.337
28-1-12	2,000.00	40.7	40.7	0	218.927	Not Full	Yes	1,781.07	-0.34
19-1-26	2,000.00	0	0	0	169.443	Not Full	No	1,830.56	-0.357
19-4-51	2,000.00	0	0	0	239.907	Not Full	No	1,760.09	-0.36
21-4-09	2,000.00	0	0	0	141.906	Not Full	No	1,858.09	-0.361
27-2-02	2,000.00	0	0	0	225.927	Not Full	No	1,774.07	-0.37
28-1-30	2,000.00	0	0	0	207.617	Not Full	No	1,792.38	-0.37
21-4-21	2,000.00	0	0	0	178.694	Not Full	No	1,821.31	-0.373
19-4-48	2,000.00	0	0	0	188.991	Not Full	No	1,811.01	-0.376
21-4-10	2,000.00	0	0	0	155.291	Not Full	No	1,844.71	-0.376
21-4-06	2,000.00	0	0	0	135.71	Not Full	No	1,864.29	-0.376
18-4-25	2,000.00	0	0	0	130.786	Not Full	No	1,869.21	-0.381
19-3-27	2,000.00	0	0	0	257.745	Not Full	No	1,742.26	-0.382
18-4-23	2,000.00	0	0	0	124.583	Not Full	No	1,875.42	-0.383
28-1-01	2,000.00	0	0	0	149.982	Not Full	Yes	1,850.02	-0.384
19-2-62	2,000.00	0	0	0	183.911	Not Full	No	1,816.09	-0.385
18-4-24	2,000.00	0	0	0	127.781	Not Full	No	1,872.22	-0.385
27-2-03	2,000.00	0	0	0	227.511	Not Full	No	1,772.49	-0.386
27-2-19	2,000.00	0	0	0	190.463	Not Full	No	1,809.54	-0.403
18-4-05	2,000.00	0	0	0	138.262	Not Full	No	1,861.74	-0.405
18-1-11	2,000.00	0	0	0	113.119	Not Full	Yes	1,886.88	-0.407
19-2-71	2,000.00	96.1	96.1	0	184.567	Not Full	No	1,815.43	-0.409
18-4-26	2,000.00	0	0	0	135.157	Not Full	No	1,864.84	-0.409
21-4-08	2,000.00	0	0	0	141.206	Not Full	No	1,858.79	-0.411

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-44	2,000.00	0	0	0	247.256	Not Full	No	1,752.74	-0.411
18-4-27	2,000.00	110.4	110.4	0	142.554	Not Full	No	1,857.45	-0.412
29-3-15	2,000.00	0	0	0	530.253	Not Full	No	1,469.75	-0.414
29-3-12	2,000.00	0	0	0	588.299	Not Full	No	1,411.70	-0.417
20-2-41	2,000.00	0	0	0	166.382	Not Full	No	1,833.62	-0.418
19-1-22	2,000.00	0	0	0	166.38	Not Full	No	1,833.62	-0.42
28-1-19	2,000.00	0	0	0	185.465	Not Full	No	1,814.54	-0.421
20-2-39	2,000.00	0	0	0	163.078	Not Full	No	1,836.92	-0.422
19-3-31	2,000.00	0	0	0	266.231	Not Full	No	1,733.77	-0.426
30-1-18	2,000.00	0	0	0	242.84	Not Full	No	1,757.16	-0.427
19-3-32	2,000.00	0	0	0	267.819	Not Full	No	1,732.18	-0.428
19-3-28	2,000.00	0	0	0	262.708	Not Full	No	1,737.29	-0.428
24-4-26	2,000.00	0	0	0	270.398	Not Full	No	1,729.60	-0.429
24-4-27	2,000.00	0	0	0	269.478	Not Full	No	1,730.52	-0.429
24-4-25	2,000.00	0	0	0	271.998	Not Full	No	1,728.00	-0.429
19-2-39	2,000.00	0	0	0	182.948	Not Full	No	1,817.05	-0.429
24-4-24	2,000.00	0	0	0	273.188	Not Full	Yes	1,726.81	-0.429
29-2-43	2,000.00	168.7	168.7	0	221.695	Not Full	No	1,778.31	-0.431
24-4-39	2,000.00	93.8	93.8	0	277.435	Not Full	No	1,722.57	-0.432
30-1-20	2,000.00	0	0	0	216.805	Not Full	No	1,783.20	-0.432
20-2-42	2,000.00	18.5	18.5	0	167.163	Not Full	No	1,832.84	-0.437
28-3-12	2,000.00	0	0	0	266.975	Not Full	No	1,733.03	-0.441
30-1-04	2,000.00	0	0	0	354.223	Not Full	Yes	1,645.78	-0.444
19-3-30	2,000.00	0	0	0	265.811	Not Full	No	1,734.19	-0.446
20-2-43	2,000.00	0	0	0	159.652	Not Full	No	1,840.35	-0.448
18-1-10	2,000.00	0	0	0	116.128	Not Full	No	1,883.87	-0.448
19-4-45	2,000.00	0	0	0	236.918	Not Full	No	1,763.08	-0.449
30-1-45	2,000.00	0	0	0	369.216	Not Full	Yes	1,630.78	-0.45
30-1-17	2,000.00	0	0	0	252.316	Not Full	No	1,747.68	-0.45
29-3-17	2,000.00	0	0	0	520.983	Not Full	Yes	1,479.02	-0.451
30-1-15	2,000.00	0	0	0	295.315	Not Full	No	1,704.69	-0.452
27-2-04	2,000.00	0	0	0	233.071	Not Full	No	1,766.93	-0.455
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
30-2-13	2,000.00	0	0	0	261.777	Not Full	Yes	1,738.22	-0.457
18-1-09	2,000.00	0	0	0	119.919	Not Full	No	1,880.08	-0.457
29-3-18	2,000.00	0	0	0	519.375	Not Full	No	1,480.63	-0.458
29-1-17	2,000.00	0	0	0	478.474	Not Full	Yes	1,521.53	-0.459
21-3-12	2,000.00	0	0	0	120.139	Not Full	Yes	1,879.86	-0.461
24-4-34	2,000.00	0	0	0	274.635	Not Full	No	1,725.37	-0.462
27-2-10	2,000.00	0	0	0	188.534	Not Full	No	1,811.47	-0.462
29-1-21	2,000.00	0	0	0	517.67	Not Full	No	1,482.33	-0.463
21-4-11	2,000.00	0	0	0	154.902	Not Full	No	1,845.10	-0.465
18-1-08	2,000.00	116.7	116.7	0	124.291	Not Full	No	1,875.71	-0.465

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
27-2-11	2,000.00	0	0	0	181.251	Not Full	No	1,818.75	-0.465
21-2-21	2,000.00	32.4	32.4	0	63.506	Not Full	No	1,936.49	-0.47
21-4-19	2,000.00	0	0	0	177.216	Not Full	No	1,822.78	-0.47
29-3-09	2,000.00	268.3	268.3	0	664.094	Not Full	No	1,335.91	-0.472
29-3-11	2,000.00	0	0	0	609.241	Not Full	No	1,390.76	-0.475
27-2-12	2,000.00	0	0	0	175.291	Not Full	No	1,824.71	-0.476
21-4-07	2,000.00	0	0	0	138.788	Not Full	No	1,861.21	-0.478
29-3-14	2,000.00	0	0	0	550.686	Not Full	No	1,449.31	-0.481
28-1-29	2,000.00	0	0	0	204.645	Not Full	No	1,795.36	-0.482
28-4-02	2,000.00	0	0	0	264.115	Not Full	No	1,735.89	-0.482
21-4-18	2,000.00	0	0	0	168.514	Not Full	No	1,831.49	-0.483
29-3-10	2,000.00	0	0	0	646.231	Not Full	No	1,353.77	-0.485
19-4-50	2,000.00	0	0	0	204.68	Not Full	No	1,795.32	-0.486
27-2-01	2,000.00	0	0	0	224.808	Not Full	No	1,775.19	-0.489
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-2-40	2,000.00	0	0	0	181.963	Not Full	No	1,818.04	-0.494
20-3-04	2,000.00	0	0	0	168.606	Not Full	No	1,831.39	-0.494
19-1-21	2,000.00	16.1	16.1	0	181.372	Not Full	Yes	1,818.63	-0.494
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
29-3-13	2,000.00	0	0	0	579.17	Not Full	No	1,420.83	-0.497
19-1-01	2,000.00	0	0	0	145.97	Not Full	No	1,854.03	-0.497
19-4-11	2,000.00	42.6	42.6	0	206.57	Not Full	No	1,793.43	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
30-1-14	2,000.00	50.9	50.9	0	312.668	Not Full	No	1,687.33	-0.498
19-4-08	2,000.00	0	0	0	194.167	Not Full	No	1,805.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5
28-1-02	2,000.00	0	0	0	162.265	Not Full	No	1,837.74	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
20-3-15	2,000.00	0	0	0	172.547	Not Full	No	1,827.45	-0.503
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
19-4-07	2,000.00	0	0	0	187.163	Not Full	No	1,812.84	-0.504
30-3-05	2,000.00	0	0	0	383.032	Not Full	Yes	1,616.97	-0.505
20-3-10	2,000.00	0	0	0	177.194	Not Full	No	1,822.81	-0.506
19-4-09	2,000.00	0	0	0	202.36	Not Full	No	1,797.64	-0.507
30-1-06	2,000.00	0	0	0	347.06	Not Full	No	1,652.94	-0.507
30-1-07	2,000.00	0	0	0	349.159	Not Full	No	1,650.84	-0.508
28-3-14	2,000.00	0	0	0	278.937	Not Full	No	1,721.06	-0.51
17-2-06	2,000.00	0	0	0	87.979	Not Full	No	1,912.02	-0.511

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
30-1-19	2,000.00	0	0	0	214.405	Not Full	No	1,785.60	-0.512
30-1-16	2,000.00	0	0	0	287.054	Not Full	No	1,712.95	-0.512
19-4-06	2,000.00	0	0	0	180.473	Not Full	No	1,819.53	-0.514
17-2-07	2,000.00	0	0	0	87.376	Not Full	No	1,912.62	-0.514
30-2-01	2,000.00	0	0	0	350.752	Not Full	Yes	1,649.25	-0.514
30-1-11	2,000.00	0	0	0	327.251	Not Full	No	1,672.75	-0.515
30-1-05	2,000.00	0	0	0	352.05	Not Full	No	1,647.95	-0.517
17-2-05	2,000.00	0	0	0	89.281	Not Full	No	1,910.72	-0.519
19-1-12	2,000.00	65.1	65.1	0	168.847	Not Full	No	1,831.15	-0.519
28-1-04	2,000.00	0	0	0	201.047	Not Full	No	1,798.95	-0.519
17-2-10	2,000.00	0	0	0	76.776	Not Full	Yes	1,923.22	-0.524
28-1-14	2,000.00	0	0	0	256.672	Not Full	No	1,743.33	-0.525
20-3-07	2,000.00	0	0	0	179.461	Not Full	No	1,820.54	-0.526
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
19-3-46	2,000.00	0	0	0	247.7	Not Full	No	1,752.30	-0.529
19-3-47	2,000.00	32.3	32.3	0	248.906	Not Full	No	1,751.09	-0.529
17-2-08	2,000.00	0	0	0	85.581	Not Full	No	1,914.42	-0.529
20-3-08	2,000.00	17.6	17.6	0	174.268	Not Full	No	1,825.73	-0.532
19-1-38	2,000.00	0	0	0	179.632	Not Full	No	1,820.37	-0.535
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536
17-3-04	2,000.00	0	0	0	90.564	Not Full	Yes	1,909.44	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536
30-1-03	2,000.00	0	0	0	368.431	Not Full	No	1,631.57	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
28-4-04	2,000.00	123.5	123.5	0	414.029	Not Full	No	1,585.97	-0.538
30-1-08	2,000.00	0	0	0	333.527	Not Full	No	1,666.47	-0.54
28-3-15	2,000.00	0	0	0	295.707	Not Full	No	1,704.29	-0.54
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
19-1-20	2,000.00	0	0	0	181.223	Not Full	No	1,818.78	-0.543
28-1-03	2,000.00	0	0	0	188.023	Not Full	No	1,811.98	-0.544
30-4-03	2,000.00	96.1	96.1	0	459.922	Not Full	No	1,540.08	-0.544
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
28-3-17	2,000.00	0	0	0	340.049	Not Full	No	1,659.95	-0.547
30-3-01	2,000.00	0	0	0	363.656	Not Full	No	1,636.34	-0.551
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
30-2-02	2,000.00	0	0	0	357.425	Not Full	No	1,642.58	-0.551

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-4-03	2,000.00	0	0	0	383.115	Not Full	No	1,616.89	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
19-4-13	2,000.00	0	0	0	211.814	Not Full	No	1,788.19	-0.552
30-3-03	2,000.00	0	0	0	376.113	Not Full	No	1,623.89	-0.553
30-2-18	2,000.00	0	0	0	289.328	Not Full	No	1,710.67	-0.555
19-1-19	2,000.00	0	0	0	176.412	Not Full	No	1,823.59	-0.555
19-1-18	2,000.00	0	0	0	174.611	Not Full	No	1,825.39	-0.555
30-4-01	2,000.00	0	0	0	395.51	Not Full	No	1,604.49	-0.556
30-3-02	2,000.00	0	0	0	369.88	Not Full	No	1,630.12	-0.556
30-2-17	2,000.00	0	0	0	286.976	Not Full	No	1,713.02	-0.557
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
30-3-04	2,000.00	0	0	0	382.337	Not Full	No	1,617.66	-0.56
19-4-18	2,000.00	0	0	0	220.907	Not Full	No	1,779.09	-0.56
19-4-12	2,000.00	0	0	0	209.007	Not Full	No	1,790.99	-0.56
30-4-02	2,000.00	0	0	0	437.106	Not Full	No	1,562.89	-0.56
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
30-2-32	2,000.00	0	0	0	277.665	Not Full	No	1,722.34	-0.568
19-3-43	2,000.00	0	0	0	235.546	Not Full	No	1,764.45	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
19-4-42	2,000.00	0	0	0	186.96	Not Full	No	1,813.04	-0.574
19-1-17	2,000.00	0	0	0	168.093	Not Full	No	1,831.91	-0.574
19-4-17	2,000.00	0	0	0	216.693	Not Full	No	1,783.31	-0.574
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
30-3-06	2,000.00	0	0	0	405.422	Not Full	No	1,594.58	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
17-2-04	2,000.00	0	0	0	106.824	Not Full	No	1,893.18	-0.576
29-1-28	2,000.00	0	0	0	215.154	Not Full	No	1,784.85	-0.579
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
19-3-44	2,000.00	0	0	0	246.955	Not Full	No	1,753.05	-0.581
19-3-34	2,000.00	0	0	0	230.644	Not Full	No	1,769.36	-0.582
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
17-3-01	2,000.00	0	0	0	104.115	Not Full	No	1,895.89	-0.585
29-1-20	2,000.00	0	0	0	515.748	Not Full	No	1,484.25	-0.586
28-2-26	2,000.00	0	0	0	175.339	Not Full	No	1,824.66	-0.587
30-2-23	2,000.00	184.6	184.6	0	303.214	Not Full	No	1,696.79	-0.589
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
30-3-07	2,000.00	48.1	48.1	0	430.231	Not Full	No	1,569.77	-0.595
19-1-37	2,000.00	0	0	0	177.971	Not Full	No	1,822.03	-0.596

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
18-1-18	2,000.00	0	0	0	112.326	Not Full	No	1,887.67	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
29-1-18	2,000.00	0	0	0	483.334	Not Full	No	1,516.67	-0.599
19-3-33	2,000.00	0	0	0	225.737	Not Full	No	1,774.26	-0.6
17-2-16	2,000.00	0	0	0	111.083	Not Full	Yes	1,888.92	-0.601
30-2-16	2,000.00	0	0	0	286.532	Not Full	No	1,713.47	-0.602
28-2-10	2,000.00	0	0	0	217.134	Not Full	No	1,782.87	-0.603
18-1-04	2,000.00	0	0	0	134.297	Not Full	Yes	1,865.70	-0.603
17-2-18	2,000.00	0	0	0	108.062	Not Full	Yes	1,891.94	-0.611
21-2-22	2,000.00	0	0	0	77.288	Not Full	No	1,922.71	-0.612
30-2-15	2,000.00	0	0	0	282.068	Not Full	No	1,717.93	-0.615
21-2-01	2,000.00	0	0	0	97.162	Not Full	No	1,902.84	-0.618
21-2-02	2,000.00	0	0	0	91.021	Not Full	No	1,908.98	-0.619
20-4-17	2,000.00	87.4	87.4	0	206.014	Not Full	No	1,793.99	-0.619
19-1-13	2,000.00	0	0	0	149.547	Not Full	No	1,850.45	-0.619
30-2-20	2,000.00	0	0	0	296.663	Not Full	No	1,703.34	-0.62
30-2-19	2,000.00	0	0	0	291.843	Not Full	No	1,708.16	-0.62
18-1-07	2,000.00	0	0	0	141.28	Not Full	Yes	1,858.72	-0.62
19-1-14	2,000.00	0	0	0	153.645	Not Full	No	1,846.36	-0.621
17-2-23	2,000.00	0	0	0	96.331	Not Full	No	1,903.67	-0.623
17-4-01	2,000.00	10.5	10.5	0	151.877	Not Full	No	1,848.12	-0.623
19-1-15	2,000.00	5.3	5.3	0	159.143	Not Full	No	1,840.86	-0.624
17-2-30	2,000.00	0	0	0	79.86	Not Full	No	1,920.14	-0.624
17-2-24	2,000.00	0	0	0	94.089	Not Full	No	1,905.91	-0.624
17-2-25	2,000.00	0	0	0	91.809	Not Full	No	1,908.19	-0.624
17-2-29	2,000.00	0	0	0	81.659	Not Full	No	1,918.34	-0.625
17-2-22	2,000.00	0	0	0	98.648	Not Full	No	1,901.35	-0.625
17-2-26	2,000.00	0	0	0	89.156	Not Full	No	1,910.84	-0.627
30-2-21	2,000.00	0	0	0	301.105	Not Full	No	1,698.90	-0.629
19-1-11	2,000.00	0	0	0	167.201	Not Full	Yes	1,832.80	-0.632
29-1-16	2,000.00	0	0	0	476.5	Not Full	No	1,523.50	-0.633
18-1-05	2,000.00	0	0	0	135.466	Not Full	No	1,864.53	-0.634
17-2-03	2,000.00	0	0	0	109.966	Not Full	No	1,890.03	-0.634
19-1-16	2,000.00	0	0	0	159.615	Not Full	No	1,840.39	-0.635
17-2-21	2,000.00	0	0	0	100.968	Not Full	No	1,899.03	-0.636
17-3-02	2,000.00	10.2	10.2	0	101.362	Not Full	No	1,898.64	-0.638
20-4-18	2,000.00	0	0	0	207.193	Not Full	No	1,792.81	-0.64
17-2-09	2,000.00	0	0	0	83.66	Not Full	No	1,916.34	-0.64
17-2-02	2,000.00	0	0	0	115.759	Not Full	No	1,884.24	-0.641
17-2-19	2,000.00	0	0	0	107.19	Not Full	No	1,892.81	-0.643
17-2-01	2,000.00	0	0	0	121.657	Not Full	No	1,878.34	-0.643
17-2-27	2,000.00	0	0	0	86.958	Not Full	No	1,913.04	-0.646

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
17-2-32	2,000.00	0	0	0	75.538	Not Full	No	1,924.46	-0.646
17-2-17	2,000.00	0	0	0	109.887	Not Full	No	1,890.11	-0.646
17-2-28	2,000.00	0	0	0	84.297	Not Full	No	1,915.70	-0.647
30-2-14	2,000.00	0	0	0	276.445	Not Full	No	1,723.56	-0.649
29-1-06	2,000.00	0	0	0	437.483	Not Full	No	1,562.52	-0.65
17-2-20	2,000.00	0	0	0	103.92	Not Full	No	1,896.08	-0.653
18-1-03	2,000.00	0	0	0	132.445	Not Full	No	1,867.56	-0.655
18-1-01	2,000.00	0	0	0	124.644	Not Full	No	1,875.36	-0.656
17-2-33	2,000.00	0	0	0	77.776	Not Full	No	1,922.22	-0.657
17-3-03	2,000.00	0	0	0	95.541	Not Full	No	1,904.46	-0.659
19-2-46	2,000.00	0	0	0	176.174	Not Full	No	1,823.83	-0.659
18-1-19	2,000.00	0	0	0	111.671	Not Full	No	1,888.33	-0.662
19-1-05	2,000.00	0	0	0	153.47	Not Full	Yes	1,846.53	-0.663
19-1-04	2,000.00	0	0	0	151.869	Not Full	No	1,848.13	-0.664
29-1-02	2,000.00	0	0	0	254.168	Not Full	No	1,745.83	-0.665
18-1-21	2,000.00	0	0	0	128.734	Not Full	No	1,871.27	-0.666
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
17-2-31	2,000.00	0	0	0	76.312	Not Full	No	1,923.69	-0.671
19-1-07	2,000.00	0	0	0	157.661	Not Full	No	1,842.34	-0.672
18-1-06	2,000.00	0	0	0	138.928	Not Full	No	1,861.07	-0.672
29-1-07	2,000.00	0	0	0	467.759	Not Full	No	1,532.24	-0.674
19-1-03	2,000.00	0	0	0	150.258	Not Full	No	1,849.74	-0.675
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
19-1-02	2,000.00	0	0	0	148.152	Not Full	No	1,851.85	-0.681
21-4-02	2,000.00	0	0	0	131.818	Not Full	No	1,868.18	-0.682
29-1-03	2,000.00	0	0	0	353.343	Not Full	No	1,646.66	-0.69
29-1-19	2,000.00	0	0	0	507.242	Not Full	No	1,492.76	-0.692
18-1-02	2,000.00	0	0	0	127.507	Not Full	No	1,872.49	-0.693

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-08	2,000.00	0	0	0	161.636	Not Full	No	1,838.36	-0.698
19-1-06	2,000.00	0	0	0	157.028	Not Full	No	1,842.97	-0.705
19-1-10	2,000.00	0	0	0	166.426	Not Full	No	1,833.57	-0.707
21-4-04	2,000.00	0	0	0	147.487	Not Full	No	1,852.51	-0.713
29-1-05	2,000.00	0	0	0	420.619	Not Full	No	1,579.38	-0.714
18-4-01	2,000.00	0	0	0	141.785	Not Full	No	1,858.22	-0.715
18-4-04	2,000.00	0	0	0	153.384	Not Full	No	1,846.62	-0.716
G&OADD1	2,000.00	16.8	16.8	0	127.522	Not Full	No	1,872.48	-0.718
18-4-03	2,000.00	0	0	0	150.081	Not Full	No	1,849.92	-0.719
21-3-11	2,000.00	6.5	6.5	0	113.981	Not Full	No	1,886.02	-0.719
18-3-32	2,000.00	89.2	89.2	0	150.259	Not Full	No	1,849.74	-0.731
21-3-31	2,000.00	0	0	0	111.004	Not Full	No	1,889.00	-0.736
28-1-11	2,000.00	0	0	0	217.764	Not Full	No	1,782.24	-0.736
21-3-17	2,000.00	0	0	0	119.345	Not Full	No	1,880.66	-0.745
18-3-01	2,000.00	0	0	0	153.851	Not Full	No	1,846.15	-0.749
21-3-29	2,000.00	0	0	0	116.391	Not Full	No	1,883.61	-0.752
18-3-35	2,000.00	0	0	0	144.333	Not Full	No	1,855.67	-0.757
18-3-38	2,000.00	0	0	0	144.973	Not Full	Yes	1,855.03	-0.767
18-3-36	2,000.00	0	0	0	143.68	Not Full	No	1,856.32	-0.77
18-4-02	2,000.00	0	0	0	145.529	Not Full	No	1,854.47	-0.771
28-2-09	2,000.00	0	0	0	221.341	Not Full	No	1,778.66	-0.773
28-4-07	2,000.00	28.4	28.4	0	238.16	Not Full	No	1,761.84	-0.773
21-3-30	2,000.00	0	0	0	142.21	Not Full	No	1,857.79	-0.774
18-3-10	2,000.00	164.7	164.7	0	162.435	Not Full	No	1,837.57	-0.775
21-3-43	2,000.00	0	0	0	151.457	Not Full	No	1,848.54	-0.777
28-1-10	2,000.00	0	0	0	216.612	Not Full	No	1,783.39	-0.788
20-4-15	2,000.00	0	0	0	139.504	Not Full	No	1,860.50	-0.796
18-3-37	2,000.00	0	0	0	142.753	Not Full	No	1,857.25	-0.797
19-2-53	2,000.00	0	0	0	170.986	Not Full	No	1,829.01	-0.824
20-4-16	2,000.00	0	0	0	186.369	Not Full	No	1,813.63	-0.831
21-3-02	2,000.00	0	0	0	69.203	Not Full	No	1,930.80	-0.847
28-1-09	2,000.00	0	0	0	214.043	Not Full	No	1,785.96	-0.857
18-3-33	2,000.00	0	0	0	149.397	Not Full	No	1,850.60	-0.863
21-3-05	2,000.00	8.3	8.3	0	104.281	Not Full	No	1,895.72	-0.869
28-1-13	2,000.00	0	0	0	239.418	Not Full	No	1,760.58	-0.882
21-3-10	2,000.00	0	0	0	107.59	Not Full	No	1,892.41	-0.91
21-4-03	2,000.00	0	0	0	144.683	Not Full	No	1,855.32	-0.917
21-3-03	2,000.00	0	0	0	75.293	Not Full	No	1,924.71	-0.957
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	100.028	Not Full	No	1,899.97	-1.022
21-1-02	2,000.00	0	0	0	49.571	Not Full	No	1,950.43	-1.029
21-1-09	2,000.00	0	0	0	56.289	Not Full	No	1,943.71	-1.091
21-1-10	2,000.00	58	58	0	58.888	Not Full	No	1,941.11	-1.092
21-1-08	2,000.00	0	0	0	54.458	Not Full	No	1,945.54	-1.092

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
21-2-08	2,000.00	0	0	0	60.838	Not Full	No	1,939.16	-1.112
21-2-07	2,000.00	0	0	0	59.537	Not Full	No	1,940.46	-1.113
21-2-11	2,000.00	0	0	0	65.747	Not Full	No	1,934.25	-1.123
21-3-01	2,000.00	0	0	0	67.857	Not Full	No	1,932.14	-1.123
21-3-28	2,000.00	0	0	0	108.147	Not Full	Yes	1,891.85	-1.293
21-1-06	2,000.00	0	0	0	49.303	Not Full	No	1,950.70	-1.297
21-3-07	2,000.00	20.9	20.9	0	111.194	Not Full	No	1,888.81	-1.316
21-3-08	2,000.00	0	0	0	108.833	Not Full	No	1,891.17	-1.317
21-3-13	2,000.00	0	0	0	110.753	Not Full	No	1,889.25	-1.317
21-3-09	2,000.00	0	0	0	108.653	Not Full	No	1,891.35	-1.317
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337
WITHOUT Carlsborg Flows									
20-1-06	2000	24.5	24.5	0	109.344	Not Full	No	1890.66	11.718
19-4-22	2000	0	0	0	186.324	Not Full	Yes	1813.68	1.258
20-1-19	2000	0	0	0	115.936	Not Full	Yes	1884.06	1.086
17-2-13	2,000.00	0	0	0	75.273	Not Full	No	1,924.73	0.853
27-2-05	2,000.00	12.7	12.7	0	235.318	Not Full	No	1,764.68	0.842
20-1-20	2,000.00	9.9	9.9	0	116.04	Not Full	No	1,883.96	0.84
17-2-14	2,000.00	0	0	0	75.211	Not Full	Yes	1,924.79	0.491
21-4-20	2,000.00	0	0	0	178.162	Not Full	Yes	1,821.84	0.456
20-1-25	2,000.00	0	0	0	116.143	Not Full	No	1,883.86	0.443
19-4-25	2,000.00	0	0	0	201.043	Not Full	Yes	1,798.96	0.376
20-1-13	2,000.00	0	0	0	114.716	Not Full	No	1,885.28	0.366
17-2-12	2,000.00	0	0	0	75.62	Not Full	No	1,924.38	0.2
20-3-01	2,000.00	0	0	0	167.871	Not Full	Yes	1,832.13	0.071
19-2-44	2,000.00	0	0	0	176.72	Not Full	Yes	1,823.28	-0.147
20-1-26	2,000.00	10.1	10.1	0	116.246	Not Full	No	1,883.75	-0.154
30-2-25	2,000.00	0	0	0	258.765	Not Full	No	1,741.24	-0.162
19-4-23	2,000.00	0	0	0	192.805	Not Full	No	1,807.20	-0.162
30-2-12	2,000.00	37.5	37.5	0	261.044	Not Full	No	1,738.96	-0.163
19-4-24	2,000.00	0	0	0	200.304	Not Full	No	1,799.70	-0.163
30-2-11	2,000.00	0	0	0	260.033	Not Full	No	1,739.97	-0.164
19-4-26	2,000.00	0	0	0	205.694	Not Full	No	1,794.31	-0.173
20-3-06	2,000.00	0	0	0	170.955	Not Full	Yes	1,829.05	-0.178
19-4-32	2,000.00	0	0	0	212.975	Not Full	No	1,787.03	-0.192
19-4-27	2,000.00	0	0	0	209.573	Not Full	No	1,790.43	-0.194
19-4-33	2,000.00	35.3	35.3	0	215.767	Not Full	No	1,784.23	-0.199
19-4-34	2,000.00	0	0	0	219.136	Not Full	No	1,780.86	-0.23
19-4-47	2,000.00	0	0	0	187.61	Not Full	No	1,812.39	-0.257
19-4-40	2,000.00	2.6	2.6	0	225.21	Not Full	No	1,774.79	-0.257
19-4-46	2,000.00	0	0	0	187.36	Not Full	No	1,812.64	-0.257
G&OADD2	2,000.00	0	0	0	232.592	Not Full	No	1,767.41	-0.274
20-2-40	2,000.00	0	0	0	164.825	Not Full	Yes	1,835.18	-0.275

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
17-2-11	2,000.00	0	0	0	75.739	Not Full	No	1,924.26	-0.281
28-1-20	2,000.00	0	0	0	185.948	Not Full	Yes	1,814.05	-0.288
28-1-31	2,000.00	0	0	0	209.383	Not Full	Yes	1,790.62	-0.293
19-1-30	2,000.00	0	0	0	190.768	Not Full	No	1,809.23	-0.299
21-4-24	2,000.00	0	0	0	179.307	Not Full	Yes	1,820.69	-0.3
27-2-21	2,000.00	0	0	0	192.553	Not Full	No	1,807.45	-0.304
21-4-05	2,000.00	0	0	0	132.571	Not Full	Yes	1,867.43	-0.305
27-2-18	2,000.00	0	0	0	189.541	Not Full	Yes	1,810.46	-0.306
27-2-20	2,000.00	0	0	0	191.82	Not Full	No	1,808.18	-0.307
27-2-22	2,000.00	0	0	0	193.32	Not Full	No	1,806.68	-0.307
19-2-54	2,000.00	0	0	0	200.36	Not Full	No	1,799.64	-0.307
27-2-23	2,000.00	195.5	195.5	0	194.02	Not Full	No	1,805.98	-0.307
19-2-15	2,000.00	16.7	16.7	0	207.087	Not Full	No	1,792.91	-0.31
19-2-16	2,000.00	0	0	0	203.147	Not Full	No	1,796.85	-0.31
19-2-17	2,000.00	0	0	0	197.456	Not Full	No	1,802.54	-0.311
29-3-16	2,000.00	0	0	0	524.154	Not Full	No	1,475.85	-0.313
19-2-59	2,000.00	0	0	0	199.342	Not Full	No	1,800.66	-0.315
19-2-12	2,000.00	0	0	0	210.256	Not Full	No	1,789.74	-0.321
24-1-26	2,000.00	0	0	0	228.365	Not Full	No	1,771.64	-0.322
24-1-05	2,000.00	0	0	0	231.465	Not Full	No	1,768.54	-0.322
24-1-02	2,000.00	0	0	0	238.294	Not Full	No	1,761.71	-0.322
24-1-07	2,000.00	0	0	0	225.104	Not Full	No	1,774.90	-0.322
24-1-01	2,000.00	0	0	0	241.364	Not Full	No	1,758.64	-0.323
19-2-56	2,000.00	0	0	0	217.704	Not Full	No	1,782.30	-0.323
19-2-10	2,000.00	0	0	0	213.904	Not Full	No	1,786.10	-0.323
19-2-11	2,000.00	0	0	0	212.753	Not Full	No	1,787.25	-0.323
24-2-54	2,000.00	0	0	0	221.183	Not Full	No	1,778.82	-0.323
24-1-14	2,000.00	0	0	0	243.243	Not Full	No	1,756.76	-0.324
19-2-14	2,000.00	0	0	0	208.543	Not Full	No	1,791.46	-0.324
24-1-08	2,000.00	0	0	0	222.143	Not Full	No	1,777.86	-0.324
24-1-03	2,000.00	0	0	0	235.363	Not Full	No	1,764.64	-0.324
24-1-13	2,000.00	0	0	0	233.663	Not Full	No	1,766.34	-0.324
24-1-06	2,000.00	0	0	0	225.942	Not Full	No	1,774.06	-0.324
19-3-26	2,000.00	0	0	0	251.357	Not Full	No	1,748.64	-0.33
19-1-29	2,000.00	6.2	6.2	0	185.537	Not Full	No	1,814.46	-0.33
19-1-28	2,000.00	0	0	0	180.832	Not Full	No	1,819.17	-0.334
19-4-49	2,000.00	0	0	0	190.03	Not Full	Yes	1,809.97	-0.337
30-1-41	2,000.00	0	0	0	215.999	Not Full	Yes	1,784.00	-0.337
28-1-12	2,000.00	40.7	40.7	0	218.927	Not Full	Yes	1,781.07	-0.34
19-4-51	2,000.00	0	0	0	239.907	Not Full	No	1,760.09	-0.36
21-4-09	2,000.00	0	0	0	141.906	Not Full	No	1,858.09	-0.361
27-2-02	2,000.00	0	0	0	225.927	Not Full	No	1,774.07	-0.37
28-1-30	2,000.00	0	0	0	207.617	Not Full	No	1,792.38	-0.37
21-4-21	2,000.00	0	0	0	178.694	Not Full	No	1,821.31	-0.373

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-48	2,000.00	0	0	0	188.991	Not Full	No	1,811.01	-0.376
21-4-10	2,000.00	0	0	0	155.291	Not Full	No	1,844.71	-0.376
21-4-06	2,000.00	0	0	0	135.71	Not Full	No	1,864.29	-0.376
18-4-25	2,000.00	0	0	0	130.786	Not Full	No	1,869.21	-0.381
19-3-27	2,000.00	0	0	0	257.745	Not Full	No	1,742.26	-0.382
18-4-23	2,000.00	0	0	0	124.583	Not Full	No	1,875.42	-0.383
28-1-01	2,000.00	0	0	0	149.982	Not Full	Yes	1,850.02	-0.384
19-2-62	2,000.00	0	0	0	183.911	Not Full	No	1,816.09	-0.385
18-4-24	2,000.00	0	0	0	127.781	Not Full	No	1,872.22	-0.385
27-2-03	2,000.00	0	0	0	227.511	Not Full	No	1,772.49	-0.386
19-1-27	2,000.00	0	0	0	177.875	Not Full	No	1,822.13	-0.392
27-2-19	2,000.00	0	0	0	190.463	Not Full	No	1,809.54	-0.403
18-4-05	2,000.00	0	0	0	138.262	Not Full	No	1,861.74	-0.405
18-1-11	2,000.00	0	0	0	113.119	Not Full	Yes	1,886.88	-0.407
19-2-71	2,000.00	96.1	96.1	0	184.567	Not Full	No	1,815.43	-0.409
18-4-26	2,000.00	0	0	0	135.157	Not Full	No	1,864.84	-0.409
21-4-08	2,000.00	0	0	0	141.206	Not Full	No	1,858.79	-0.411
19-4-44	2,000.00	0	0	0	247.256	Not Full	No	1,752.74	-0.411
18-4-27	2,000.00	110.4	110.4	0	142.554	Not Full	No	1,857.45	-0.412
29-3-15	2,000.00	0	0	0	530.253	Not Full	No	1,469.75	-0.414
29-3-12	2,000.00	0	0	0	588.299	Not Full	No	1,411.70	-0.417
20-2-41	2,000.00	0	0	0	166.382	Not Full	No	1,833.62	-0.418
28-1-19	2,000.00	0	0	0	185.465	Not Full	No	1,814.54	-0.421
20-2-39	2,000.00	0	0	0	163.078	Not Full	No	1,836.92	-0.422
19-3-31	2,000.00	0	0	0	266.231	Not Full	No	1,733.77	-0.426
30-1-18	2,000.00	0	0	0	242.84	Not Full	No	1,757.16	-0.427
19-3-32	2,000.00	0	0	0	267.819	Not Full	No	1,732.18	-0.428
19-3-28	2,000.00	0	0	0	262.708	Not Full	No	1,737.29	-0.428
24-4-26	2,000.00	0	0	0	270.398	Not Full	No	1,729.60	-0.429
24-4-27	2,000.00	0	0	0	269.478	Not Full	No	1,730.52	-0.429
24-4-25	2,000.00	0	0	0	271.998	Not Full	No	1,728.00	-0.429
24-4-24	2,000.00	0	0	0	273.188	Not Full	Yes	1,726.81	-0.429
19-2-39	2,000.00	0	0	0	182.948	Not Full	No	1,817.05	-0.429
21-2-06	2,000.00	0	0	0	56.269	Not Full	Yes	1,943.73	-0.431
29-2-43	2,000.00	168.7	168.7	0	221.695	Not Full	No	1,778.31	-0.431
24-4-39	2,000.00	93.8	93.8	0	277.435	Not Full	No	1,722.57	-0.432
30-1-20	2,000.00	0	0	0	216.805	Not Full	No	1,783.20	-0.432
20-2-42	2,000.00	18.5	18.5	0	167.163	Not Full	No	1,832.84	-0.437
28-3-12	2,000.00	0	0	0	266.975	Not Full	No	1,733.03	-0.441
21-1-01	2,000.00	0	0	0	53.207	Not Full	No	1,946.79	-0.443
30-1-04	2,000.00	0	0	0	354.223	Not Full	Yes	1,645.78	-0.444
19-3-30	2,000.00	0	0	0	265.811	Not Full	No	1,734.19	-0.446
20-2-43	2,000.00	0	0	0	159.652	Not Full	No	1,840.35	-0.448
18-1-10	2,000.00	0	0	0	116.128	Not Full	No	1,883.87	-0.448

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-45	2,000.00	0	0	0	236.918	Not Full	No	1,763.08	-0.449
30-1-45	2,000.00	0	0	0	369.216	Not Full	Yes	1,630.78	-0.45
30-1-17	2,000.00	0	0	0	252.316	Not Full	No	1,747.68	-0.45
29-3-17	2,000.00	0	0	0	520.983	Not Full	Yes	1,479.02	-0.451
30-1-15	2,000.00	0	0	0	295.315	Not Full	No	1,704.69	-0.452
27-2-04	2,000.00	0	0	0	233.071	Not Full	No	1,766.93	-0.455
20-4-31	2,000.00	0	0	0	114.55	Not Full	No	1,885.45	-0.457
20-4-35	2,000.00	73.9	73.9	0	117.06	Not Full	No	1,882.94	-0.457
30-2-13	2,000.00	0	0	0	261.777	Not Full	Yes	1,738.22	-0.457
18-1-09	2,000.00	0	0	0	119.919	Not Full	No	1,880.08	-0.457
29-3-18	2,000.00	0	0	0	519.375	Not Full	No	1,480.63	-0.458
29-1-17	2,000.00	0	0	0	478.474	Not Full	Yes	1,521.53	-0.459
21-3-12	2,000.00	0	0	0	120.139	Not Full	Yes	1,879.86	-0.461
24-4-34	2,000.00	0	0	0	274.635	Not Full	No	1,725.37	-0.462
27-2-10	2,000.00	0	0	0	188.534	Not Full	No	1,811.47	-0.462
29-1-21	2,000.00	0	0	0	517.67	Not Full	No	1,482.33	-0.463
21-4-11	2,000.00	0	0	0	154.902	Not Full	No	1,845.10	-0.465
18-1-08	2,000.00	116.7	116.7	0	124.291	Not Full	No	1,875.71	-0.465
27-2-11	2,000.00	0	0	0	181.251	Not Full	No	1,818.75	-0.465
21-4-19	2,000.00	0	0	0	177.216	Not Full	No	1,822.78	-0.47
21-2-21	2,000.00	32.4	32.4	0	63.506	Not Full	No	1,936.49	-0.47
29-3-09	2,000.00	268.3	268.3	0	664.094	Not Full	No	1,335.91	-0.472
29-3-11	2,000.00	0	0	0	609.241	Not Full	No	1,390.76	-0.475
27-2-12	2,000.00	0	0	0	175.291	Not Full	No	1,824.71	-0.476
21-4-07	2,000.00	0	0	0	138.788	Not Full	No	1,861.21	-0.478
29-3-14	2,000.00	0	0	0	550.686	Not Full	No	1,449.31	-0.481
28-1-29	2,000.00	0	0	0	204.645	Not Full	No	1,795.36	-0.482
28-4-02	2,000.00	0	0	0	264.115	Not Full	No	1,735.89	-0.482
20-2-05	2,000.00	0	0	0	134.367	Not Full	No	1,865.63	-0.483
21-4-18	2,000.00	0	0	0	168.514	Not Full	No	1,831.49	-0.483
29-3-10	2,000.00	0	0	0	646.231	Not Full	No	1,353.77	-0.485
19-4-50	2,000.00	0	0	0	204.68	Not Full	No	1,795.32	-0.486
20-2-25	2,000.00	7.6	7.6	0	140.523	Not Full	Yes	1,859.48	-0.487
27-2-01	2,000.00	0	0	0	224.808	Not Full	No	1,775.19	-0.489
19-3-04	2,000.00	37.4	37.4	0	217.346	Not Full	No	1,782.65	-0.491
19-3-36	2,000.00	0	0	0	214.426	Not Full	No	1,785.57	-0.491
19-3-03	2,000.00	0	0	0	212.126	Not Full	No	1,787.87	-0.491
19-3-37	2,000.00	0	0	0	210.146	Not Full	No	1,789.85	-0.491
20-3-02	2,000.00	0	0	0	174.074	Not Full	No	1,825.93	-0.493
19-2-40	2,000.00	0	0	0	181.963	Not Full	No	1,818.04	-0.494
20-3-04	2,000.00	0	0	0	168.606	Not Full	No	1,831.39	-0.494
19-1-21	2,000.00	16.1	16.1	0	181.372	Not Full	Yes	1,818.63	-0.494
19-3-01	2,000.00	0	0	0	207.081	Not Full	No	1,792.92	-0.496
29-3-13	2,000.00	0	0	0	579.17	Not Full	No	1,420.83	-0.497

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-01	2,000.00	0	0	0	145.97	Not Full	No	1,854.03	-0.497
19-4-11	2,000.00	42.6	42.6	0	206.57	Not Full	No	1,793.43	-0.497
19-4-05	2,000.00	0	0	0	206.379	Not Full	No	1,793.62	-0.498
19-3-02	2,000.00	0	0	0	208.559	Not Full	No	1,791.44	-0.498
30-1-14	2,000.00	50.9	50.9	0	312.668	Not Full	No	1,687.33	-0.498
21-2-03	2,000.00	0	0	0	77.901	Not Full	Yes	1,922.10	-0.499
19-4-08	2,000.00	0	0	0	194.167	Not Full	No	1,805.83	-0.5
19-4-01	2,000.00	0	0	0	178.566	Not Full	No	1,821.43	-0.5
28-1-02	2,000.00	0	0	0	162.265	Not Full	No	1,837.74	-0.501
19-4-04	2,000.00	0	0	0	199.965	Not Full	No	1,800.04	-0.501
19-4-02	2,000.00	0	0	0	183.265	Not Full	No	1,816.74	-0.501
20-3-15	2,000.00	0	0	0	172.547	Not Full	No	1,827.45	-0.503
19-4-03	2,000.00	0	0	0	191.663	Not Full	No	1,808.34	-0.504
19-4-07	2,000.00	0	0	0	187.163	Not Full	No	1,812.84	-0.504
20-1-51	2,000.00	0	0	0	118.976	Not Full	No	1,881.02	-0.504
30-3-05	2,000.00	0	0	0	383.032	Not Full	Yes	1,616.97	-0.505
20-3-10	2,000.00	0	0	0	177.194	Not Full	No	1,822.81	-0.506
19-4-09	2,000.00	0	0	0	202.36	Not Full	No	1,797.64	-0.507
30-1-06	2,000.00	0	0	0	347.06	Not Full	No	1,652.94	-0.507
30-1-07	2,000.00	0	0	0	349.159	Not Full	No	1,650.84	-0.508
20-2-04	2,000.00	14.8	14.8	0	132.841	Not Full	No	1,867.16	-0.509
20-2-17	2,000.00	7.6	7.6	0	137.801	Not Full	Yes	1,862.20	-0.509
28-3-14	2,000.00	0	0	0	278.937	Not Full	No	1,721.06	-0.51
17-2-06	2,000.00	0	0	0	87.979	Not Full	No	1,912.02	-0.511
30-1-19	2,000.00	0	0	0	214.405	Not Full	No	1,785.60	-0.512
30-1-16	2,000.00	0	0	0	287.054	Not Full	No	1,712.95	-0.512
19-4-06	2,000.00	0	0	0	180.473	Not Full	No	1,819.53	-0.514
17-2-07	2,000.00	0	0	0	87.376	Not Full	No	1,912.62	-0.514
30-2-01	2,000.00	0	0	0	350.752	Not Full	Yes	1,649.25	-0.514
30-1-11	2,000.00	0	0	0	327.251	Not Full	No	1,672.75	-0.515
30-1-05	2,000.00	0	0	0	352.05	Not Full	No	1,647.95	-0.517
17-2-05	2,000.00	0	0	0	89.281	Not Full	No	1,910.72	-0.519
19-1-12	2,000.00	65.1	65.1	0	168.847	Not Full	No	1,831.15	-0.519
28-1-04	2,000.00	0	0	0	201.047	Not Full	No	1,798.95	-0.519
20-1-34	2,000.00	10.1	10.1	0	117.879	Not Full	No	1,882.12	-0.521
20-2-46	2,000.00	0	0	0	136.087	Not Full	No	1,863.91	-0.523
17-2-10	2,000.00	0	0	0	76.776	Not Full	Yes	1,923.22	-0.524
28-1-14	2,000.00	0	0	0	256.672	Not Full	No	1,743.33	-0.525
20-3-07	2,000.00	0	0	0	179.461	Not Full	No	1,820.54	-0.526
19-2-18	2,000.00	21.6	21.6	0	192.04	Not Full	No	1,807.96	-0.527
19-3-46	2,000.00	0	0	0	247.7	Not Full	No	1,752.30	-0.529
19-3-47	2,000.00	32.3	32.3	0	248.906	Not Full	No	1,751.09	-0.529
17-2-08	2,000.00	0	0	0	85.581	Not Full	No	1,914.42	-0.529
20-3-08	2,000.00	17.6	17.6	0	174.268	Not Full	No	1,825.73	-0.532

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-38	2,000.00	0	0	0	179.632	Not Full	No	1,820.37	-0.535
19-3-11	2,000.00	0	0	0	235.001	Not Full	No	1,765.00	-0.536
17-3-04	2,000.00	0	0	0	90.564	Not Full	Yes	1,909.44	-0.536
19-3-09	2,000.00	0	0	0	228.071	Not Full	No	1,771.93	-0.536
30-1-03	2,000.00	0	0	0	368.431	Not Full	No	1,631.57	-0.536
19-1-25	2,000.00	0	0	0	187.83	Not Full	No	1,812.17	-0.536
28-4-04	2,000.00	123.5	123.5	0	414.029	Not Full	No	1,585.97	-0.538
20-3-11	2,000.00	27.6	27.6	0	140.638	Not Full	No	1,859.36	-0.539
30-1-08	2,000.00	0	0	0	333.527	Not Full	No	1,666.47	-0.54
28-3-15	2,000.00	0	0	0	295.707	Not Full	No	1,704.29	-0.54
19-1-24	2,000.00	0	0	0	181.026	Not Full	No	1,818.97	-0.541
20-1-30	2,000.00	10.1	10.1	0	116.959	Not Full	No	1,883.04	-0.541
19-3-08	2,000.00	0	0	0	225.284	Not Full	No	1,774.72	-0.542
19-3-07	2,000.00	0	0	0	223.674	Not Full	No	1,776.33	-0.543
19-1-20	2,000.00	0	0	0	181.223	Not Full	No	1,818.78	-0.543
28-1-03	2,000.00	0	0	0	188.023	Not Full	No	1,811.98	-0.544
30-4-03	2,000.00	96.1	96.1	0	459.922	Not Full	No	1,540.08	-0.544
24-4-01	2,000.00	0	0	0	240.221	Not Full	No	1,759.78	-0.546
28-3-17	2,000.00	0	0	0	340.049	Not Full	No	1,659.95	-0.547
20-2-34	2,000.00	52.8	52.8	0	153.702	Not Full	Yes	1,846.30	-0.548
30-3-01	2,000.00	0	0	0	363.656	Not Full	No	1,636.34	-0.551
19-2-20	2,000.00	0	0	0	193.156	Not Full	No	1,806.84	-0.551
19-2-22	2,000.00	0	0	0	195.212	Not Full	No	1,804.79	-0.551
19-2-38	2,000.00	22.5	22.5	0	197.606	Not Full	No	1,802.39	-0.551
19-2-23	2,000.00	0	0	0	195	Not Full	No	1,805.00	-0.551
19-3-10	2,000.00	0	0	0	231.946	Not Full	No	1,768.05	-0.551
19-2-24	2,000.00	0	0	0	196.416	Not Full	No	1,803.58	-0.551
19-2-21	2,000.00	0	0	0	193.944	Not Full	No	1,806.06	-0.551
30-2-02	2,000.00	0	0	0	357.425	Not Full	No	1,642.58	-0.551
28-4-03	2,000.00	0	0	0	383.115	Not Full	No	1,616.89	-0.551
19-3-05	2,000.00	0	0	0	221.615	Not Full	No	1,778.39	-0.551
19-2-19	2,000.00	0	0	0	192.955	Not Full	No	1,807.05	-0.552
19-4-13	2,000.00	0	0	0	211.814	Not Full	No	1,788.19	-0.552
30-3-03	2,000.00	0	0	0	376.113	Not Full	No	1,623.89	-0.553
30-2-18	2,000.00	0	0	0	289.328	Not Full	No	1,710.67	-0.555
19-1-19	2,000.00	0	0	0	176.412	Not Full	No	1,823.59	-0.555
19-1-18	2,000.00	0	0	0	174.611	Not Full	No	1,825.39	-0.555
20-1-39	2,000.00	9.3	9.3	0	119.544	Not Full	No	1,880.46	-0.556
30-4-01	2,000.00	0	0	0	395.51	Not Full	No	1,604.49	-0.556
30-3-02	2,000.00	0	0	0	369.88	Not Full	No	1,630.12	-0.556
30-2-17	2,000.00	0	0	0	286.976	Not Full	No	1,713.02	-0.557
19-1-23	2,000.00	0	0	0	174.209	Not Full	No	1,825.79	-0.557
30-3-04	2,000.00	0	0	0	382.337	Not Full	No	1,617.66	-0.56
19-4-18	2,000.00	0	0	0	220.907	Not Full	No	1,779.09	-0.56

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-4-12	2,000.00	0	0	0	209.007	Not Full	No	1,790.99	-0.56
30-4-02	2,000.00	0	0	0	437.106	Not Full	No	1,562.89	-0.56
24-4-03	2,000.00	41.3	41.3	0	254.105	Not Full	No	1,745.90	-0.561
20-2-32	2,000.00	9.3	9.3	0	151.786	Not Full	No	1,848.21	-0.564
20-3-03	2,000.00	0	0	0	171.799	Not Full	No	1,828.20	-0.567
30-2-32	2,000.00	0	0	0	277.665	Not Full	No	1,722.34	-0.568
19-3-43	2,000.00	0	0	0	235.546	Not Full	No	1,764.45	-0.571
19-2-34	2,000.00	0	0	0	197.796	Not Full	No	1,802.20	-0.571
19-4-42	2,000.00	0	0	0	186.96	Not Full	No	1,813.04	-0.574
19-1-17	2,000.00	0	0	0	168.093	Not Full	No	1,831.91	-0.574
19-4-17	2,000.00	0	0	0	216.693	Not Full	No	1,783.31	-0.574
19-2-35	2,000.00	0	0	0	200.092	Not Full	No	1,799.91	-0.574
19-2-36	2,000.00	16.2	16.2	0	201.992	Not Full	No	1,798.01	-0.574
30-3-06	2,000.00	0	0	0	405.422	Not Full	No	1,594.58	-0.575
24-4-02	2,000.00	0	0	0	247.492	Not Full	No	1,752.51	-0.575
19-2-33	2,000.00	0	0	0	196.291	Not Full	No	1,803.71	-0.576
17-2-04	2,000.00	0	0	0	106.824	Not Full	No	1,893.18	-0.576
20-2-38	2,000.00	0	0	0	156.372	Not Full	No	1,843.63	-0.578
29-1-28	2,000.00	0	0	0	215.154	Not Full	No	1,784.85	-0.579
19-1-31	2,000.00	0	0	0	171.787	Not Full	No	1,828.21	-0.579
19-2-28	2,000.00	0	0	0	185.985	Not Full	No	1,814.02	-0.581
19-3-44	2,000.00	0	0	0	246.955	Not Full	No	1,753.05	-0.581
19-3-34	2,000.00	0	0	0	230.644	Not Full	No	1,769.36	-0.582
20-4-07	2,000.00	0	0	0	122.616	Not Full	No	1,877.38	-0.584
19-2-32	2,000.00	0	0	0	194.382	Not Full	No	1,805.62	-0.585
17-3-01	2,000.00	0	0	0	104.115	Not Full	No	1,895.89	-0.585
29-1-20	2,000.00	0	0	0	515.748	Not Full	No	1,484.25	-0.586
28-2-26	2,000.00	0	0	0	175.339	Not Full	No	1,824.66	-0.587
20-1-49	2,000.00	0	0	0	128.142	Not Full	No	1,871.86	-0.588
20-1-50	2,000.00	0	0	0	123.511	Not Full	No	1,876.49	-0.589
30-2-23	2,000.00	184.6	184.6	0	303.214	Not Full	No	1,696.79	-0.589
19-1-32	2,000.00	0	0	0	177.977	Not Full	No	1,822.02	-0.59
19-1-33	2,000.00	18.3	18.3	0	189.075	Not Full	No	1,810.93	-0.592
20-4-06	2,000.00	0	0	0	121.107	Not Full	No	1,878.89	-0.593
30-3-07	2,000.00	48.1	48.1	0	430.231	Not Full	No	1,569.77	-0.595
19-1-37	2,000.00	0	0	0	177.971	Not Full	No	1,822.03	-0.596
19-2-30	2,000.00	0	0	0	188.97	Not Full	No	1,811.03	-0.597
18-1-18	2,000.00	0	0	0	112.326	Not Full	No	1,887.67	-0.597
19-2-29	2,000.00	0	0	0	186.269	Not Full	No	1,813.73	-0.598
19-2-31	2,000.00	0	0	0	191.669	Not Full	No	1,808.33	-0.598
29-1-18	2,000.00	0	0	0	483.334	Not Full	No	1,516.67	-0.599
19-3-33	2,000.00	0	0	0	225.737	Not Full	No	1,774.26	-0.6
17-2-16	2,000.00	0	0	0	111.083	Not Full	Yes	1,888.92	-0.601
30-2-16	2,000.00	0	0	0	286.532	Not Full	No	1,713.47	-0.602

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
28-2-10	2,000.00	0	0	0	217.134	Not Full	No	1,782.87	-0.603
18-1-04	2,000.00	0	0	0	134.297	Not Full	Yes	1,865.70	-0.603
20-1-38	2,000.00	0	0	0	118.697	Not Full	No	1,881.30	-0.603
20-4-42	2,000.00	0	0	0	124.095	Not Full	Yes	1,875.91	-0.605
17-2-18	2,000.00	0	0	0	108.062	Not Full	Yes	1,891.94	-0.611
30-2-15	2,000.00	0	0	0	282.068	Not Full	No	1,717.93	-0.615
20-4-17	2,000.00	87.4	87.4	0	206.014	Not Full	No	1,793.99	-0.619
19-1-13	2,000.00	0	0	0	149.547	Not Full	No	1,850.45	-0.619
30-2-20	2,000.00	0	0	0	296.663	Not Full	No	1,703.34	-0.62
30-2-19	2,000.00	0	0	0	291.843	Not Full	No	1,708.16	-0.62
18-1-07	2,000.00	0	0	0	141.28	Not Full	Yes	1,858.72	-0.62
19-1-14	2,000.00	0	0	0	153.645	Not Full	No	1,846.36	-0.621
17-2-23	2,000.00	0	0	0	96.331	Not Full	No	1,903.67	-0.623
17-4-01	2,000.00	10.5	10.5	0	151.877	Not Full	No	1,848.12	-0.623
19-1-15	2,000.00	5.3	5.3	0	159.143	Not Full	No	1,840.86	-0.624
17-2-30	2,000.00	0	0	0	79.86	Not Full	No	1,920.14	-0.624
17-2-24	2,000.00	0	0	0	94.089	Not Full	No	1,905.91	-0.624
17-2-25	2,000.00	0	0	0	91.809	Not Full	No	1,908.19	-0.624
17-2-29	2,000.00	0	0	0	81.659	Not Full	No	1,918.34	-0.625
17-2-22	2,000.00	0	0	0	98.648	Not Full	No	1,901.35	-0.625
17-2-26	2,000.00	0	0	0	89.156	Not Full	No	1,910.84	-0.627
30-2-21	2,000.00	0	0	0	301.105	Not Full	No	1,698.90	-0.629
19-1-11	2,000.00	0	0	0	167.201	Not Full	Yes	1,832.80	-0.632
29-1-16	2,000.00	0	0	0	476.5	Not Full	No	1,523.50	-0.633
18-1-05	2,000.00	0	0	0	135.466	Not Full	No	1,864.53	-0.634
17-2-03	2,000.00	0	0	0	109.966	Not Full	No	1,890.03	-0.634
17-2-21	2,000.00	0	0	0	100.968	Not Full	No	1,899.03	-0.636
17-3-02	2,000.00	10.2	10.2	0	101.362	Not Full	No	1,898.64	-0.638
20-4-18	2,000.00	0	0	0	207.193	Not Full	No	1,792.81	-0.64
17-2-09	2,000.00	0	0	0	83.66	Not Full	No	1,916.34	-0.64
17-2-02	2,000.00	0	0	0	115.759	Not Full	No	1,884.24	-0.641
17-2-19	2,000.00	0	0	0	107.19	Not Full	No	1,892.81	-0.643
17-2-01	2,000.00	0	0	0	121.657	Not Full	No	1,878.34	-0.643
17-2-27	2,000.00	0	0	0	86.958	Not Full	No	1,913.04	-0.646
17-2-32	2,000.00	0	0	0	75.538	Not Full	No	1,924.46	-0.646
17-2-17	2,000.00	0	0	0	109.887	Not Full	No	1,890.11	-0.646
17-2-28	2,000.00	0	0	0	84.297	Not Full	No	1,915.70	-0.647
30-2-14	2,000.00	0	0	0	276.445	Not Full	No	1,723.56	-0.649
29-1-06	2,000.00	0	0	0	437.483	Not Full	No	1,562.52	-0.65
17-2-20	2,000.00	0	0	0	103.92	Not Full	No	1,896.08	-0.653
18-1-03	2,000.00	0	0	0	132.445	Not Full	No	1,867.56	-0.655
18-1-01	2,000.00	0	0	0	124.644	Not Full	No	1,875.36	-0.656
17-2-33	2,000.00	0	0	0	77.776	Not Full	No	1,922.22	-0.657
20-2-21	2,000.00	0	0	0	139.651	Not Full	No	1,860.35	-0.659

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
17-3-03	2,000.00	0	0	0	95.541	Not Full	No	1,904.46	-0.659
19-2-46	2,000.00	0	0	0	176.174	Not Full	No	1,823.83	-0.659
18-1-19	2,000.00	0	0	0	111.671	Not Full	No	1,888.33	-0.662
19-1-05	2,000.00	0	0	0	153.47	Not Full	Yes	1,846.53	-0.663
19-1-04	2,000.00	0	0	0	151.869	Not Full	No	1,848.13	-0.664
29-1-02	2,000.00	0	0	0	254.168	Not Full	No	1,745.83	-0.665
18-1-21	2,000.00	0	0	0	128.734	Not Full	No	1,871.27	-0.666
28-3-18	2,000.00	0	0	0	427.08	Not Full	No	1,572.92	-0.667
20-4-36	2,000.00	0	0	0	116.77	Not Full	No	1,883.23	-0.667
19-1-35	2,000.00	0	0	0	198.56	Not Full	No	1,801.44	-0.667
19-1-34	2,000.00	0	0	0	194.3	Not Full	No	1,805.70	-0.667
28-2-04	2,000.00	0	0	0	379.92	Not Full	No	1,620.08	-0.667
27-2-07	2,000.00	0	0	0	228.99	Not Full	No	1,771.01	-0.667
19-1-36	2,000.00	0	0	0	202.81	Not Full	No	1,797.19	-0.667
27-2-08	2,000.00	0	0	0	217.96	Not Full	No	1,782.04	-0.667
28-2-11	2,000.00	0	0	0	389.7	Not Full	No	1,610.30	-0.667
28-4-05	2,000.00	0	0	0	435	Not Full	No	1,565.00	-0.667
27-2-09	2,000.00	0	0	0	201.88	Not Full	No	1,798.12	-0.667
28-3-53	2,000.00	0	0	0	441.24	Not Full	No	1,558.76	-0.667
28-3-54	2,000.00	0	0	0	442.39	Not Full	No	1,557.61	-0.667
28-3-55	2,000.00	0	0	0	443.9	Not Full	No	1,556.10	-0.667
28-3-56	2,000.00	0	0	0	445.47	Not Full	No	1,554.53	-0.667
28-2-03	2,000.00	0	0	0	375.77	Not Full	No	1,624.23	-0.667
28-2-02	2,000.00	0	0	0	369.5	Not Full	No	1,630.50	-0.667
28-2-01	2,000.00	0	0	0	278.5	Not Full	No	1,721.50	-0.667
19-2-52	2,000.00	0	0	0	175.53	Not Full	No	1,824.47	-0.667
20-4-37	2,000.00	0	0	0	115.81	Not Full	No	1,884.19	-0.667
17-2-31	2,000.00	0	0	0	76.312	Not Full	No	1,923.69	-0.671
19-1-07	2,000.00	0	0	0	157.661	Not Full	No	1,842.34	-0.672
18-1-06	2,000.00	0	0	0	138.928	Not Full	No	1,861.07	-0.672
29-1-07	2,000.00	0	0	0	467.759	Not Full	No	1,532.24	-0.674
19-1-03	2,000.00	0	0	0	150.258	Not Full	No	1,849.74	-0.675
28-3-52	2,000.00	0	0	0	436.12	Not Full	No	1,563.88	-0.679
19-1-02	2,000.00	0	0	0	148.152	Not Full	No	1,851.85	-0.681
21-4-02	2,000.00	0	0	0	131.818	Not Full	No	1,868.18	-0.682
20-4-13	2,000.00	0	0	0	127.917	Not Full	No	1,872.08	-0.683
20-4-12	2,000.00	0	0	0	125.915	Not Full	No	1,874.09	-0.685
29-1-03	2,000.00	0	0	0	353.343	Not Full	No	1,646.66	-0.69
29-1-19	2,000.00	0	0	0	507.242	Not Full	No	1,492.76	-0.692
18-1-02	2,000.00	0	0	0	127.507	Not Full	No	1,872.49	-0.693
19-1-26	2,000.00	0	0	0	169.103	Not Full	No	1,830.90	-0.697
19-1-08	2,000.00	0	0	0	161.636	Not Full	No	1,838.36	-0.698
19-1-06	2,000.00	0	0	0	157.028	Not Full	No	1,842.97	-0.705
19-1-22	2,000.00	0	0	0	166.093	Not Full	No	1,833.91	-0.707

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
19-1-10	2,000.00	0	0	0	166.426	Not Full	No	1,833.57	-0.707
21-4-04	2,000.00	0	0	0	147.487	Not Full	No	1,852.51	-0.713
29-1-05	2,000.00	0	0	0	420.619	Not Full	No	1,579.38	-0.714
18-4-01	2,000.00	0	0	0	141.785	Not Full	No	1,858.22	-0.715
18-4-04	2,000.00	0	0	0	153.384	Not Full	No	1,846.62	-0.716
G&OADD1	2,000.00	16.8	16.8	0	127.522	Not Full	No	1,872.48	-0.718
18-4-03	2,000.00	0	0	0	150.081	Not Full	No	1,849.92	-0.719
21-3-11	2,000.00	6.5	6.5	0	113.981	Not Full	No	1,886.02	-0.719
18-3-32	2,000.00	89.2	89.2	0	150.259	Not Full	No	1,849.74	-0.731
21-3-31	2,000.00	0	0	0	111.004	Not Full	No	1,889.00	-0.736
28-1-11	2,000.00	0	0	0	217.764	Not Full	No	1,782.24	-0.736
21-3-17	2,000.00	0	0	0	119.345	Not Full	No	1,880.66	-0.745
18-3-01	2,000.00	0	0	0	153.851	Not Full	No	1,846.15	-0.749
21-3-29	2,000.00	0	0	0	116.391	Not Full	No	1,883.61	-0.752
21-2-22	2,000.00	0	0	0	77.145	Not Full	No	1,922.86	-0.755
18-3-35	2,000.00	0	0	0	144.333	Not Full	No	1,855.67	-0.757
21-2-01	2,000.00	0	0	0	97.02	Not Full	No	1,902.98	-0.76
21-2-02	2,000.00	0	0	0	90.879	Not Full	No	1,909.12	-0.761
20-1-07	2,000.00	0	0	0	113.336	Not Full	No	1,886.66	-0.764
18-3-38	2,000.00	0	0	0	144.973	Not Full	Yes	1,855.03	-0.767
24-1-15	2,000.00	0	0	0	251.631	Not Full	No	1,748.37	-0.769
18-3-36	2,000.00	0	0	0	143.68	Not Full	No	1,856.32	-0.77
18-4-02	2,000.00	0	0	0	145.529	Not Full	No	1,854.47	-0.771
28-2-09	2,000.00	0	0	0	221.341	Not Full	No	1,778.66	-0.773
28-4-07	2,000.00	28.4	28.4	0	238.16	Not Full	No	1,761.84	-0.773
21-3-30	2,000.00	0	0	0	142.21	Not Full	No	1,857.79	-0.774
18-3-10	2,000.00	164.7	164.7	0	162.435	Not Full	No	1,837.57	-0.775
21-3-43	2,000.00	0	0	0	151.457	Not Full	No	1,848.54	-0.777
28-1-10	2,000.00	0	0	0	216.612	Not Full	No	1,783.39	-0.788
24-1-16	2,000.00	263.3	263.3	0	261.691	Not Full	No	1,738.31	-0.789
20-4-15	2,000.00	0	0	0	139.504	Not Full	No	1,860.50	-0.796
20-2-29	2,000.00	8.3	8.3	0	149.453	Not Full	No	1,850.55	-0.797
18-3-37	2,000.00	0	0	0	142.753	Not Full	No	1,857.25	-0.797
20-2-28	2,000.00	0	0	0	147.513	Not Full	No	1,852.49	-0.797
19-2-53	2,000.00	0	0	0	170.986	Not Full	No	1,829.01	-0.824
20-4-16	2,000.00	0	0	0	186.369	Not Full	No	1,813.63	-0.831
21-3-02	2,000.00	0	0	0	69.203	Not Full	No	1,930.80	-0.847
28-1-09	2,000.00	0	0	0	214.043	Not Full	No	1,785.96	-0.857
18-3-33	2,000.00	0	0	0	149.397	Not Full	No	1,850.60	-0.863
21-3-05	2,000.00	8.3	8.3	0	104.281	Not Full	No	1,895.72	-0.869
28-1-13	2,000.00	0	0	0	239.418	Not Full	No	1,760.58	-0.882
20-2-08	2,000.00	0	0	0	137.314	Not Full	No	1,862.69	-0.886
20-2-07	2,000.00	0	0	0	135.913	Not Full	No	1,864.09	-0.887
20-2-06	2,000.00	0	0	0	134.513	Not Full	No	1,865.49	-0.887

TABLE E-16

City of Sequim Buildout Model Manhole Output

ID	Rim Elevation (ft)	Base Flow (gpm)	Total Flow (gpm)	Storm Flow (gpm)	Grade (ft)	Status	Hydraulic Jump	Unfilled Depth (ft)	Surcharge Depth (ft)
20-2-09	2,000.00	0	0	0	138.112	Not Full	No	1,861.89	-0.888
20-2-10	2,000.00	0	0	0	139.507	Not Full	No	1,860.49	-0.893
21-3-10	2,000.00	0	0	0	107.59	Not Full	No	1,892.41	-0.91
21-4-03	2,000.00	0	0	0	144.683	Not Full	No	1,855.32	-0.917
19-1-16	2,000.00	0	0	0	159.33	Not Full	No	1,840.67	-0.92
21-3-03	2,000.00	0	0	0	75.293	Not Full	No	1,924.71	-0.957
19-1-40	2,000.00	0	0	0	174.24	Not Full	No	1,825.76	-1
21-3-04	2,000.00	0	0	0	100.028	Not Full	No	1,899.97	-1.022
21-1-09	2,000.00	0	0	0	56.289	Not Full	No	1,943.71	-1.091
21-1-10	2,000.00	58	58	0	58.888	Not Full	No	1,941.11	-1.092
21-1-08	2,000.00	0	0	0	54.458	Not Full	No	1,945.54	-1.092
21-1-02	2,000.00	0	0	0	49.506	Not Full	No	1,950.49	-1.094
21-2-08	2,000.00	0	0	0	60.838	Not Full	No	1,939.16	-1.112
21-2-07	2,000.00	0	0	0	59.537	Not Full	No	1,940.46	-1.113
21-2-11	2,000.00	0	0	0	65.747	Not Full	No	1,934.25	-1.123
21-3-01	2,000.00	0	0	0	67.857	Not Full	No	1,932.14	-1.123
21-3-28	2,000.00	0	0	0	108.147	Not Full	Yes	1,891.85	-1.293
21-1-06	2,000.00	0	0	0	49.303	Not Full	No	1,950.70	-1.297
21-3-07	2,000.00	20.9	20.9	0	111.194	Not Full	No	1,888.81	-1.316
21-3-08	2,000.00	0	0	0	108.833	Not Full	No	1,891.17	-1.317
21-3-13	2,000.00	0	0	0	110.753	Not Full	No	1,889.25	-1.317
21-3-09	2,000.00	0	0	0	108.653	Not Full	No	1,891.35	-1.317
21-3-06	2,000.00	0	0	0	112.643	Not Full	No	1,887.36	-1.337
20-4-24	2,000.00	0	0	0	113.903	Not Full	No	1,886.10	-1.337

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
WITH Carlsborg Flows											
1071	19-2-17	19-1-30	8	787.887	0.01	1116	7.123	1	2.23	0.667	501.469
1160	20-1-13	20-1-07	15	117.439	0	3325.599	6.038	1	1.75	1.25	1896.836
1161	20-1-19	20-1-13	15	165.416	0	3325.599	6.038	1	2.08	1.25	1598.262
1193	20-3-01	20-2-42	12	87.82	0	888.8	2.521	1	1.16	1	765.137
1141	19-4-25	19-4-24	8	56.351	0	548.9	3.504	1	1.69	0.667	323.97
1070	19-2-16	19-2-54	8	329.97	0.01	1116	7.123	1	2.23	0.667	500.039
1138	19-4-22	20-3-10	8	512.576	0.02	717.6	4.58	1	1.08	0.667	666.508
1263	21-4-20	21-4-19	8	323.279	0	208.2	1.329	1	4.87	0.667	42.773
1181	20-2-25	20-2-21	15	150.591	0.01	2202.199	3.998	1	1.11	1.25	1981.991
1158	20-1-06	21-2-01	8	57.456	0.01	3350.099	21.383	1	5.66	0.667	591.598
1173	20-2-05	20-2-04	15	311.909	0.01	2237.399	4.062	1	1.11	1.25	2015.967
1069	19-2-15	19-2-16	8	465.861	0.01	1116	7.123	1	2.23	0.667	500.103
1095	19-2-54	19-2-59	8	122.685	0.01	1116	7.123	1	2.26	0.667	493.406
1097	19-2-59	19-2-17	8	213.617	0.01	1116	7.123	1	2.18	0.667	511.507
1225	21-2-03	21-2-22	18	109	0.01	3350.099	4.224	1	1.05	1.5	3201.665
1052	19-1-27	19-1-26	8	403.413	0.02	1122.2	7.163	1	1.4	0.667	803.166
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1053	19-1-28	19-1-27	8	259.296	0.01	1122.2	7.163	1	1.95	0.667	575.095
1054	19-1-29	19-1-28	8	438.473	0.01	1122.2	7.163	1	1.99	0.667	563.01
1055	19-1-30	19-1-29	8	678.565	0.01	1116	7.123	1	2.34	0.667	476.042
1217	21-1-01	21-1-02	18	769.455	0	3350.099	4.224	1	1.13	1.5	2976.203
1226	21-2-06	21-1-01	18	790.804	0	3350.099	4.224	1	1.14	1.5	2935.754
1179	20-2-17	20-2-46	15	330.36	0.01	2209.799	4.012	1	1.06	1.25	2085.366
1192	20-2-46	20-2-05	15	322.684	0.01	2209.799	4.012	1	1.03	1.25	2146.936
1185	20-2-34	20-2-32	15	328.102	0.01	2,177.00	4.579	0.81	0.98	1.007	2,212.20
1197	20-3-06	20-3-04	10	300.724	0.01	810.1	3.923	0.79	0.96	0.655	843.327
1091	19-2-44	19-2-46	8	579.954	0	96.1	0.734	0.78	0.95	0.52	100.985
1184	20-2-32	20-2-29	15	331.328	0.01	2,186.30	4.78	0.77	0.95	0.967	2,314.37
1171	20-1-51	20-1-19	15	399.329	0.01	2,920.40	6.457	0.77	0.93	0.957	3,130.23
1186	20-2-38	20-2-34	15	438.816	0.01	2,124.20	4.703	0.76	0.93	0.955	2,280.30
1172	20-2-04	20-1-49	15	390.979	0.01	2,920.40	6.513	0.76	0.92	0.948	3,160.06
1397	30-2-25	19-3-27	8	201.839	0	315.9	2.48	0.76	0.92	0.505	342.359
1139	19-4-23	19-4-22	8	659	0.01	548.9	4.313	0.76	0.92	0.505	595.401
1385	30-2-12	30-2-11	8	253.12	0	315.9	2.488	0.76	0.92	0.504	343.507
1140	19-4-24	19-4-23	8	622.555	0.01	548.9	4.322	0.76	0.92	0.504	596.872
1384	30-2-11	30-2-25	8	317.001	0	315.9	2.492	0.75	0.92	0.503	344.2
1142	19-4-26	19-4-25	8	412.69	0.01	548.9	4.409	0.74	0.9	0.494	610.42

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1188	20-2-40	20-2-39	12	382.757	0	907.3	3.315	0.73	0.88	0.725	1,036.62
1144	19-4-32	19-4-27	8	244.428	0.01	548.9	4.6	0.71	0.86	0.475	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	548.9	4.62	0.71	0.85	0.473	644.544
1145	19-4-33	19-4-32	8	193.37	0.01	548.9	4.678	0.7	0.84	0.467	654.371
1169	20-1-49	20-1-50	15	273.274	0.02	2,920.40	7.582	0.66	0.77	0.824	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	2,920.40	7.599	0.66	0.77	0.822	3,794.91
1146	19-4-34	19-4-33	8	222.441	0.02	513.6	4.726	0.66	0.76	0.436	672.312
1051	19-1-26	19-1-22	12	329.458	0.01	1,140.50	4.757	0.64	0.75	0.643	1,529.97
1180	20-2-21	20-2-17	15	187.297	0.01	2,202.20	5.958	0.64	0.73	0.795	3,004.01
1153	19-4-47	19-4-46	8	126.27	0	168.7	1.67	0.62	0.7	0.41	241.969
1147	19-4-40	19-4-34	8	331.621	0.02	513.6	5.088	0.61	0.7	0.41	737.535
1152	19-4-46	19-4-42	8	125.896	0	168.7	1.671	0.61	0.7	0.41	242.328
1230	21-2-22	21-2-06	18	1,831.00	0.01	3,350.10	6.848	0.59	0.66	0.888	5,086.60
1149	G&OADD2	19-4-40	8	356.5	0.02	511	5.328	0.59	0.65	0.392	783.474
1223	21-2-01	21-2-02	18	518.06	0.01	3,350.10	6.91	0.59	0.65	0.882	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	3,350.10	6.914	0.59	0.65	0.881	5,150.85
1159	20-1-07	20-1-06	18	1,319.26	0.01	3,325.60	6.899	0.59	0.65	0.878	5,147.03
1189	20-2-41	20-2-40	12	217.516	0.01	907.3	4.266	0.58	0.64	0.582	1,417.43
1047	19-1-22	19-1-16	12	505.438	0.01	1,184.60	5.591	0.58	0.64	0.58	1,859.70
1187	20-2-39	20-2-43	12	427.648	0.01	907.3	4.294	0.58	0.64	0.578	1,429.61
1317	28-1-20	28-1-19	8	64.719	0	208.2	2.269	0.57	0.62	0.378	337.98
1190	20-2-42	20-2-41	12	92.525	0.01	907.3	4.435	0.56	0.61	0.563	1,490.86
1292	27-2-05	27-2-04	8	212.723	0	208.2	2.298	0.56	0.61	0.374	343.749
1314	28-1-31	28-1-30	8	394.454	0	208.2	2.306	0.56	0.6	0.373	345.255
1191	20-2-43	20-2-38	12	369.052	0.01	907.3	4.544	0.55	0.59	0.552	1,538.93
969	17-2-12	17-2-13	12	303.616	0	541	2.715	0.55	0.59	0.551	920.151
1265	21-4-24	21-4-21	8	126.481	0	208.2	2.357	0.55	0.59	0.367	355.323
1302	27-2-21	27-2-20	8	161.176	0	195.5	2.245	0.54	0.58	0.363	339.984
1254	21-4-05	21-4-02	8	158.26	0	208.2	2.402	0.54	0.57	0.361	364.236
1299	27-2-18	27-2-10	8	188.538	0	195.5	2.261	0.54	0.57	0.361	342.981
1301	27-2-20	27-2-19	8	289.947	0	195.5	2.266	0.54	0.57	0.36	343.961
1303	27-2-22	27-2-21	8	167.014	0	195.5	2.268	0.54	0.57	0.36	344.429
1304	27-2-23	27-2-22	8	149.448	0	195.5	2.268	0.54	0.57	0.36	344.564
1242	21-3-12	21-3-17	12	222.893	0	389.2	2.011	0.54	0.57	0.539	687.646
1363	29-3-16	29-3-17	8	401.862	0.01	268.3	3.175	0.53	0.55	0.354	485.261
1067	19-2-12	19-2-14	8	206.905	0.01	263.3	3.205	0.52	0.53	0.346	494.369
1277	24-1-26	24-1-06	8	289.66	0.01	263.3	3.218	0.52	0.53	0.345	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	263.3	3.221	0.52	0.53	0.345	497.667

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1267	24-1-02	24-1-03	8	348.953	0.01	263.3	3.224	0.52	0.53	0.344	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	263.3	3.225	0.52	0.53	0.344	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	263.3	3.228	0.52	0.53	0.344	498.946
1096	19-2-56	19-2-10	8	449.312	0.01	263.3	3.233	0.52	0.53	0.344	500.1
1065	19-2-10	19-2-11	8	135.736	0.01	263.3	3.235	0.52	0.53	0.344	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	263.3	3.236	0.52	0.53	0.343	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	263.3	3.237	0.52	0.53	0.343	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	263.3	3.243	0.51	0.52	0.343	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	263.3	3.243	0.51	0.52	0.343	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	263.3	3.245	0.51	0.52	0.343	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	263.3	3.246	0.51	0.52	0.343	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	263.3	3.246	0.51	0.52	0.343	502.741
1270	24-1-06	24-1-07	8	97.95	0.01	263.3	3.25	0.51	0.52	0.342	503.589
1196	20-3-04	20-3-01	12	110.258	0.01	888.8	4.965	0.51	0.51	0.506	1,740.95
1110	19-3-26	19-4-44	8	285.064	0.01	315.9	3.982	0.51	0.51	0.337	621.212
1202	20-3-15	20-3-06	12	203.572	0.01	735.2	4.206	0.5	0.5	0.497	1,486.56
1155	19-4-49	19-4-48	8	250.077	0	168.7	2.184	0.49	0.49	0.33	343.876
1200	20-3-10	20-3-08	12	348.384	0.01	717.6	4.13	0.49	0.49	0.494	1,462.82
1380	30-1-41	30-1-19	8	354.251	0	168.7	2.186	0.49	0.49	0.329	344.293
968	17-2-11	17-2-12	12	104.09	0.01	541	3.131	0.49	0.49	0.492	1,111.22
1041	19-1-16	20-2-38	15	446.292	0.01	1,216.90	4.508	0.49	0.49	0.615	2,499.76
1312	28-1-12	28-1-11	8	281.382	0	164.2	2.151	0.49	0.48	0.327	340.007
963	17-2-06	17-2-07	12	101.697	0.01	541	3.159	0.49	0.48	0.489	1,124.22
964	17-2-07	17-2-08	12	334.55	0.01	541	3.184	0.49	0.48	0.486	1,136.18
962	17-2-05	17-2-06	12	232.966	0.01	541	3.224	0.48	0.47	0.481	1,155.49
1166	20-1-34	20-1-30	12	354.986	0	375.1	2.248	0.48	0.47	0.479	807.304
967	17-2-10	17-2-11	12	218.347	0.01	541	3.272	0.48	0.46	0.476	1,178.66
971	17-2-14	PWPS	12	184.844	0.01	541	3.297	0.47	0.45	0.473	1,191.02
1163	20-1-25	20-1-20	12	169.112	0	395.3	2.413	0.47	0.45	0.472	871.805
1183	20-2-29	20-2-28	15	69.913	0.03	2,194.60	8.576	0.47	0.45	0.59	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	2,194.60	8.579	0.47	0.45	0.59	4,845.04
965	17-2-08	17-2-09	12	306.365	0.01	541	3.312	0.47	0.45	0.471	1,197.84
1199	20-3-08	20-3-15	12	166.018	0.01	735.2	4.538	0.47	0.45	0.468	1,646.13
994	17-3-04	17-2-05	12	221.097	0.01	541	3.376	0.46	0.44	0.464	1,229.42
1157	19-4-51	G&OADD2	8	411.715	0.02	315.9	4.487	0.46	0.43	0.307	729.048
1165	20-1-30	20-1-26	12	354.769	0	385.2	2.439	0.46	0.43	0.459	892.782
1364	29-3-17	29-3-18	10	402.175	0	268.3	2.447	0.46	0.43	0.383	621.901
1258	21-4-09	21-4-08	8	50.49	0.01	208.2	2.973	0.46	0.43	0.306	484.022

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1386	30-2-13	30-2-12	10	215.752	0	261.203	2.432	0.45	0.42	0.377	622.502
1365	29-3-18	29-1-21	10	398.124	0	268.3	2.512	0.45	0.42	0.375	644.294
1349	29-1-17	29-1-16	10	418.361	0	268.3	2.519	0.45	0.42	0.374	646.739
1162	20-1-20	20-1-19	12	160.958	0	405.2	2.646	0.45	0.41	0.448	978.905
1289	27-2-02	27-2-01	8	113.774	0.01	208.2	3.09	0.45	0.41	0.297	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	208.2	3.091	0.45	0.41	0.297	510.101
1353	29-1-21	29-1-20	10	402.791	0	268.3	2.554	0.44	0.41	0.37	659.121
1168	20-1-39	20-1-38	12	255.284	0	365	2.415	0.44	0.41	0.444	897.542
1264	21-4-21	21-4-20	8	149.173	0.01	208.2	3.132	0.44	0.4	0.294	519.235
1154	19-4-48	19-4-47	8	241.949	0.01	168.7	2.57	0.44	0.39	0.291	428.176
1259	21-4-10	21-4-11	8	31.731	0.01	208.2	3.174	0.44	0.39	0.291	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	208.2	3.18	0.44	0.39	0.29	530.03
1164	20-1-26	20-1-25	12	169.233	0	395.3	2.731	0.43	0.38	0.43	1,031.17
1024	18-4-25	18-4-24	8	397.125	0.01	180.8	2.815	0.43	0.38	0.286	472.646
1111	19-3-27	19-3-26	8	266.061	0.02	315.9	4.95	0.43	0.38	0.285	832.801
1022	18-4-23	17-2-01	8	384.354	0.01	180.8	2.849	0.43	0.38	0.283	480.434
961	17-2-04	17-3-01	12	345.616	0.01	530.8	3.731	0.42	0.38	0.424	1,417.12
1305	28-1-01	21-4-04	8	383.288	0.01	164.2	2.6	0.42	0.37	0.282	439.184
1098	19-2-62	19-2-39	8	362.45	0	96.1	1.529	0.42	0.37	0.281	258.656
1023	18-4-24	18-4-23	8	399.081	0.01	180.8	2.878	0.42	0.37	0.281	486.949
1290	27-2-03	27-2-02	8	149.302	0.01	208.2	3.323	0.42	0.37	0.281	562.945
1204	20-4-07	20-4-06	12	397.849	0	355.7	2.567	0.42	0.36	0.416	984.482
991	17-3-01	17-3-02	12	318.869	0.01	530.8	3.843	0.42	0.36	0.415	1,475.36
1203	20-4-06	20-1-39	12	392	0	355.7	2.643	0.41	0.35	0.407	1,024.33
998	18-1-04	18-1-03	12	300.784	0	350	2.687	0.4	0.33	0.397	1,054.06
1167	20-1-38	20-1-34	12	191.441	0.01	365	2.802	0.4	0.33	0.397	1,099.32
1300	27-2-19	27-2-18	8	77.095	0.01	195.5	3.399	0.4	0.33	0.263	594.046
1216	20-4-42	20-4-07	12	329.641	0.01	355.7	2.75	0.4	0.33	0.395	1,081.55
1021	18-4-05	18-4-26	8	297.552	0.01	180.8	3.167	0.39	0.33	0.262	555.058
1005	18-1-11	18-1-18	8	149.044	0	116.7	2.071	0.39	0.32	0.259	364.602
1099	19-2-71	19-2-62	8	185.256	0	96.1	1.722	0.39	0.32	0.257	304.275
1025	18-4-26	18-4-25	8	396.401	0.01	180.8	3.241	0.39	0.32	0.257	572.925
1257	21-4-08	21-4-07	8	139.743	0.02	208.2	3.76	0.38	0.31	0.256	666.628
1150	19-4-44	19-4-51	8	213.037	0.04	315.9	5.714	0.38	0.31	0.256	1,013.51
1026	18-4-27	18-4-05	8	370.385	0.01	180.8	3.294	0.38	0.31	0.254	585.931
1001	18-1-07	18-1-06	12	453.25	0.01	350	2.849	0.38	0.31	0.38	1,142.13
1362	29-3-15	29-3-16	8	237.428	0.03	268.3	4.927	0.38	0.31	0.253	878.756
2	17-4-01	20-2-04	12	1,022.00	0.02	668.2	5.49	0.38	0.3	0.377	2,209.01

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1359	29-3-12	29-3-13	8	328.996	0.03	268.3	5.021	0.37	0.3	0.249	901.92
970	17-2-13	17-2-14	12	53.433	0.01	541	4.529	0.37	0.3	0.372	1,835.12
1316	28-1-19	21-4-24	8	358.022	0.02	208.2	3.978	0.37	0.29	0.245	720.218
999	18-1-05	18-1-04	12	206.235	0.01	350	2.994	0.37	0.29	0.366	1,223.01
960	17-2-03	17-2-04	12	237.625	0.01	530.8	4.551	0.37	0.29	0.366	1,860.59
992	17-3-02	17-3-03	12	398.981	0.02	541	4.703	0.36	0.28	0.362	1,933.12
1114	19-3-31	19-3-30	8	104.645	0	93.8	1.839	0.36	0.28	0.241	336.21
966	17-2-09	17-2-10	12	472.423	0.02	541	4.735	0.36	0.28	0.36	1,951.66
1377	30-1-18	19-4-45	8	350.408	0.02	195.1	3.849	0.36	0.28	0.24	705.631
959	17-2-02	17-2-03	12	400.873	0.01	530.8	4.67	0.36	0.28	0.359	1,928.56
1115	19-3-32	19-3-31	8	403.213	0	93.8	1.86	0.36	0.28	0.239	341.484
1112	19-3-28	30-2-13	8	269.428	0	93.8	1.864	0.36	0.27	0.238	342.696
1284	24-4-26	24-4-27	8	230.476	0	93.8	1.868	0.36	0.27	0.238	343.574
1285	24-4-27	19-3-32	8	415.524	0	93.8	1.868	0.36	0.27	0.238	343.712
1283	24-4-25	24-4-26	8	399.92	0	93.8	1.869	0.36	0.27	0.238	343.964
1089	19-2-39	19-2-40	8	218.916	0	96.1	1.916	0.36	0.27	0.238	352.528
1282	24-4-24	24-4-25	8	297.246	0	93.8	1.87	0.36	0.27	0.238	344.076
958	17-2-01	17-2-02	12	399.079	0.02	530.8	4.707	0.36	0.27	0.357	1,949.48
1355	29-2-43	30-1-20	8	362.02	0.01	168.7	3.415	0.35	0.27	0.235	632.015
1287	24-4-39	24-4-34	8	662.433	0	93.8	1.9	0.35	0.27	0.235	351.648
1379	30-1-20	30-1-41	8	66.423	0.01	168.7	3.419	0.35	0.27	0.235	632.995
997	18-1-03	18-1-21	12	510.506	0.01	350	3.241	0.35	0.26	0.345	1,364.97
995	18-1-01	17-2-01	12	406.186	0.01	350	3.263	0.34	0.25	0.344	1,377.91
993	17-3-03	17-3-04	12	281.199	0.02	541	5.094	0.34	0.25	0.341	2,159.23
1328	28-3-12	28-4-02	8	320.055	0.01	123.5	2.649	0.34	0.25	0.225	501.316
1392	30-2-18	30-2-17	10	372.265	0.01	184.6	2.576	0.33	0.24	0.278	766.539
1367	30-1-04	30-1-05	8	389.779	0.01	96.1	2.096	0.33	0.24	0.223	399.153
1008	18-1-21	18-1-02	12	145.768	0.01	350	3.394	0.33	0.24	0.334	1,454.73
1391	30-2-17	30-2-16	10	64.408	0.01	184.6	2.601	0.33	0.24	0.276	777.014
1113	19-3-30	19-3-28	8	590.482	0.01	93.8	2.067	0.33	0.24	0.221	395.288
1000	18-1-06	18-1-05	12	395.427	0.01	350	3.484	0.33	0.23	0.328	1,508.42
1004	18-1-10	18-1-11	8	343.962	0.01	116.7	2.616	0.33	0.23	0.218	503.61
1151	19-4-45	G&OADD2	8	185.247	0.02	195.1	4.395	0.33	0.23	0.218	847.557
1381	30-1-45	30-1-03	8	116.402	0.01	96.1	2.18	0.33	0.23	0.216	421.703
1376	30-1-17	30-1-18	8	382.118	0.03	195.1	4.431	0.32	0.23	0.216	857.437
1232	21-3-02	21-3-01	15	203.266	0.01	527.2	3.433	0.32	0.23	0.403	2,342.65
1374	30-1-15	30-1-16	8	321.214	0.03	195.1	4.474	0.32	0.23	0.215	868.858
1398	30-2-32	30-2-14	10	143.05	0.01	184.6	2.753	0.32	0.22	0.265	840.701

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1251	21-4-02	G&OADD1	12	377.409	0.01	372.4	3.869	0.32	0.22	0.318	1,703.41
1206	20-4-13	20-4-12	12	193.1	0.01	355.7	3.703	0.32	0.22	0.317	1,631.72
1291	27-2-04	27-2-03	8	178.715	0.03	208.2	4.882	0.32	0.22	0.211	956.58
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737
1205	20-4-12	20-4-42	12	178.123	0.01	355.7	3.742	0.32	0.22	0.315	1,655.92
1003	18-1-09	18-1-10	8	367.771	0.01	116.7	2.77	0.31	0.21	0.209	545.445
1218	21-1-02	WRFHEADWORKS	18	50	0.11	3,350.10	15.724	0.31	0.21	0.471	15,678.35
1148	19-4-42	19-4-22	10	349.211	0.01	168.7	2.591	0.31	0.21	0.26	800.183
996	18-1-02	18-1-01	12	256.223	0.01	350	3.805	0.31	0.21	0.307	1,705.73
1286	24-4-34	24-4-24	8	208.15	0.01	93.8	2.3	0.31	0.21	0.205	458.545
1296	27-2-10	27-2-11	8	230.854	0.03	195.5	4.805	0.31	0.2	0.204	959.031
1235	21-3-05	21-3-04	15	509.884	0.01	527.2	3.707	0.31	0.2	0.381	2,606.80
1354	29-1-28	20-4-18	10	434.841	0.02	268.3	4.25	0.31	0.2	0.254	1,328.98
1260	21-4-11	21-4-09	8	350.326	0.04	208.2	5.189	0.3	0.2	0.202	1,041.49
1002	18-1-08	18-1-09	8	365.984	0.01	116.7	2.924	0.3	0.2	0.201	588.071
1297	27-2-11	27-2-12	8	180.846	0.03	195.5	4.903	0.3	0.2	0.201	986.377
1352	29-1-20	29-1-19	10	419.219	0.02	268.3	4.402	0.3	0.19	0.248	1,395.69
1229	21-2-21	21-2-08	8	2,869.51	0	32.4	0.842	0.29	0.19	0.196	171.68
1262	21-4-19	21-4-18	8	208.771	0.04	208.2	5.408	0.29	0.19	0.196	1,103.06
1396	30-2-23	30-2-21	10	196.778	0.01	184.6	3.088	0.29	0.19	0.244	986.537
1356	29-3-09	29-3-10	8	251.525	0.07	268.3	7.063	0.29	0.19	0.194	1,448.66
1358	29-3-11	29-3-12	8	279.115	0.08	268.3	7.213	0.29	0.18	0.191	1,491.62
1253	21-4-04	21-4-03	12	799.3	0	164.2	1.964	0.29	0.18	0.287	914.436
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	195.5	5.277	0.29	0.18	0.191	1,092.97
1017	18-4-01	18-1-07	12	39.831	0.02	350	4.216	0.29	0.18	0.285	1,967.82
1020	18-4-04	18-4-03	12	384.556	0.01	260.8	3.17	0.28	0.18	0.284	1,485.25
1006	18-1-18	18-1-19	10	107.771	0.01	116.7	2.043	0.28	0.18	0.236	664.837
1256	21-4-07	21-4-06	8	60.782	0.05	208.2	5.723	0.28	0.17	0.188	1,193.95
1250	G&OADD1	21-3-12	12	389.309	0.02	389.2	4.776	0.28	0.17	0.282	2,246.06
1350	29-1-18	29-1-17	10	201.851	0.03	268.3	4.749	0.28	0.17	0.234	1,551.81
1019	18-4-03	18-4-02	12	506.848	0.01	260.8	3.209	0.28	0.17	0.281	1,510.74
1241	21-3-11	21-3-31	12	144.196	0.02	395.7	4.877	0.28	0.17	0.281	2,297.16
973	17-2-16	17-2-17	10	217.198	0.01	116.7	2.089	0.28	0.17	0.233	685.544
1361	29-3-14	29-3-15	8	241.785	0.09	268.3	7.527	0.28	0.17	0.186	1,583.44
1390	30-2-16	30-2-15	10	360.927	0.01	184.6	3.326	0.28	0.17	0.232	1,094.81
1318	28-1-29	28-1-20	8	363.951	0.05	208.2	5.865	0.28	0.17	0.185	1,235.61
1338	28-4-02	28-1-14	8	424.758	0.02	123.5	3.492	0.28	0.17	0.185	736.912

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1261	21-4-18	21-4-10	8	249.725	0.05	208.2	5.935	0.28	0.17	0.184	1,256.39
1221	21-1-09	21-1-08	18	282.589	0.01	617.6	3.529	0.27	0.16	0.409	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	617.6	3.533	0.27	0.16	0.408	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	617.6	3.533	0.27	0.16	0.408	3,810.51
1357	29-3-10	29-3-11	8	398.375	0.09	268.3	7.777	0.27	0.16	0.181	1,657.27
1240	21-3-10	21-3-05	15	274.714	0.01	518.9	4.283	0.27	0.16	0.34	3,210.21
1156	19-4-50	19-4-49	8	393.949	0.04	168.7	4.93	0.27	0.16	0.18	1,054.02
1011	18-3-32	18-3-33	12	211.336	0	89.2	1.166	0.27	0.16	0.269	562.37
1288	27-2-01	28-1-31	8	255.578	0.06	208.2	6.215	0.27	0.16	0.178	1,340.06
975	17-2-18	17-2-19	10	144.435	0.01	116.7	2.231	0.27	0.16	0.222	751.922
1248	21-3-31	21-3-10	12	133.4	0.03	395.7	5.317	0.26	0.15	0.264	2,593.32
1311	28-1-11	28-1-10	12	243.143	0.01	164.2	2.21	0.26	0.15	0.264	1,078.42
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1389	30-2-15	30-2-32	10	284.705	0.02	184.6	3.62	0.26	0.15	0.218	1,232.68
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663
1090	19-2-40	19-2-44	8	389.205	0.01	96.1	2.977	0.26	0.15	0.173	651.712
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	559.6	3.435	0.26	0.15	0.388	3,811.19
1046	19-1-21	19-1-20	8	60.527	0	32.3	1.007	0.26	0.15	0.172	221.037
1227	21-2-07	21-1-10	18	102.071	0.01	559.6	3.447	0.26	0.15	0.387	3,829.92
1209	20-4-17	20-4-16	10	315.244	0.06	355.7	7.149	0.26	0.15	0.214	2,458.52
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1394	30-2-20	30-2-19	10	277.422	0.02	184.6	3.731	0.26	0.14	0.213	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	184.6	3.732	0.26	0.14	0.213	1,286.47
1244	21-3-17	21-3-11	12	186.646	0.03	389.2	5.482	0.26	0.14	0.255	2,724.62
1360	29-3-13	29-3-14	8	236.006	0.12	268.3	8.539	0.26	0.14	0.17	1,889.73
1027	19-1-01	18-4-27	8	420.515	0.01	70.4	2.242	0.25	0.14	0.17	496.115
1133	19-4-11	19-4-09	8	444.228	0.01	74.9	2.388	0.25	0.14	0.17	528.762
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
980	17-2-23	17-2-24	10	299.088	0.01	116.7	2.402	0.25	0.14	0.211	834.02
1373	30-1-14	30-1-15	8	262.922	0.07	195.1	6.289	0.25	0.14	0.168	1,398.95
1228	21-2-11	21-2-08	18	760.617	0.01	527.2	3.37	0.25	0.14	0.377	3,801.93
987	17-2-30	17-2-33	10	267.515	0.01	116.7	2.418	0.25	0.14	0.21	841.806
1231	21-3-01	21-2-11	18	324.763	0.01	527.2	3.376	0.25	0.14	0.377	3,810.33
1009	18-3-01	18-4-04	12	36.125	0.01	260.8	3.759	0.25	0.14	0.251	1,886.27

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
981	17-2-24	17-2-25	10	296.445	0.01	116.7	2.425	0.25	0.14	0.209	845.522
982	17-2-25	17-2-26	10	346.589	0.01	116.7	2.426	0.25	0.14	0.209	845.73
1131	19-4-08	19-4-07	8	699.032	0.01	74.9	2.437	0.25	0.14	0.167	544.176
986	17-2-29	17-2-30	10	242.085	0.01	116.7	2.435	0.25	0.14	0.209	850.2
979	17-2-22	17-2-23	10	296.781	0.01	116.7	2.44	0.25	0.14	0.208	852.761
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
1306	28-1-02	28-1-01	8	247.684	0.05	164.2	5.418	0.25	0.14	0.165	1,216.75
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
983	17-2-26	17-2-27	10	268.744	0.01	116.7	2.47	0.25	0.14	0.206	867.423
1395	30-2-21	30-2-20	10	217.583	0.02	184.6	3.951	0.25	0.13	0.205	1,394.12
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1130	19-4-07	19-4-06	8	605.46	0.01	74.9	2.522	0.25	0.13	0.163	571.195
1403	30-3-05	30-3-04	8	115.798	0.01	48.1	1.634	0.24	0.13	0.162	371.352
1013	18-3-35	18-3-36	12	292.402	0	89.2	1.347	0.24	0.13	0.243	689.014
1036	19-1-11	19-1-10	10	263.273	0	65.1	1.427	0.24	0.13	0.201	508.411
1348	29-1-16	29-1-07	10	187.628	0.05	268.3	5.937	0.24	0.13	0.2	2,123.14
1132	19-4-09	19-4-08	8	681.983	0.01	74.9	2.601	0.24	0.13	0.16	596.292
1369	30-1-06	30-1-08	8	302.642	0.05	144.2	5.009	0.24	0.13	0.16	1,148.53
1370	30-1-07	30-1-06	8	418.833	0.01	48.1	1.677	0.24	0.13	0.159	385.06
978	17-2-21	17-2-22	10	242.47	0.01	116.7	2.626	0.24	0.12	0.198	945.568
1329	28-3-14	28-3-12	8	340.805	0.04	123.5	4.407	0.24	0.12	0.157	1,021.69
1233	21-3-03	21-3-02	15	273.312	0.02	527.2	5.365	0.23	0.12	0.293	4,378.42
1016	18-3-38	18-3-35	12	253.099	0	89.2	1.427	0.23	0.12	0.233	747.408
1210	20-4-18	20-4-17	10	22.66	0.05	268.3	6.223	0.23	0.12	0.193	2,268.95
1378	30-1-19	19-4-50	8	139.234	0.07	168.7	6.13	0.23	0.12	0.155	1,431.63
1375	30-1-16	30-1-17	8	373.616	0.09	195.1	7.101	0.23	0.12	0.154	1,659.65
1275	24-1-15	24-1-14	12	431.609	0.02	263.3	4.273	0.23	0.12	0.231	2,250.02
1014	18-3-36	18-3-37	12	346.739	0	89.2	1.458	0.23	0.12	0.23	770.132
1129	19-4-06	20-3-07	8	70.467	0.01	74.9	2.758	0.23	0.12	0.153	647.808
1018	18-4-02	18-4-01	12	189.934	0.02	260.8	4.285	0.23	0.12	0.229	2,267.84
1382	30-2-01	30-1-07	8	267.898	0.01	48.1	1.784	0.23	0.11	0.152	420.257
976	17-2-19	17-2-20	10	293.842	0.01	116.7	2.776	0.23	0.11	0.19	1,022.48
1372	30-1-11	30-1-14	8	265.862	0.06	144.2	5.392	0.23	0.11	0.151	1,274.35
984	17-2-27	17-2-28	10	226.538	0.01	116.7	2.825	0.23	0.11	0.188	1,048.14
1368	30-1-05	30-1-06	8	198.059	0.03	96.1	3.638	0.23	0.11	0.15	864.026
989	17-2-32	PWPS	10	30.835	0.01	116.7	2.829	0.23	0.11	0.188	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	116.7	2.835	0.23	0.11	0.187	1,053.41

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1010	18-3-10	18-3-01	12	398.208	0.02	260.8	4.405	0.23	0.11	0.225	2,357.59
985	17-2-28	17-2-29	10	221.792	0.01	116.7	2.846	0.22	0.11	0.187	1,059.29
1388	30-2-14	30-2-13	10	491.303	0.03	184.6	4.577	0.22	0.11	0.185	1,714.76
1037	19-1-12	19-1-11	8	136.141	0.01	65.1	2.531	0.22	0.11	0.147	607.673
1308	28-1-04	28-1-03	8	163.086	0.08	164.2	6.39	0.22	0.11	0.147	1,535.33
1346	29-1-06	29-1-05	10	254.333	0.07	268.3	6.731	0.22	0.11	0.183	2,534.09
977	17-2-20	17-2-21	10	216.023	0.01	116.7	2.999	0.22	0.1	0.18	1,140.43
1315	28-1-14	28-1-13	8	328.472	0.05	123.5	5.071	0.21	0.1	0.142	1,245.47
1310	28-1-10	28-1-09	12	230.353	0.01	164.2	3.015	0.21	0.1	0.212	1,670.30
990	17-2-33	17-2-31	10	99.544	0.02	116.7	3.091	0.21	0.1	0.176	1,190.00
1198	20-3-07	20-3-06	8	454.124	0.02	74.9	3.107	0.21	0.1	0.141	766.399
1276	24-1-16	24-1-15	12	354.375	0.03	263.3	4.867	0.21	0.1	0.211	2,704.08
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
1092	19-2-46	19-2-53	10	355.676	0.01	96.1	2.59	0.21	0.1	0.174	1,004.28
1122	19-3-46	19-3-44	8	148.328	0	32.3	1.377	0.21	0.09	0.138	343.549
1123	19-3-47	19-3-46	8	301.624	0	32.3	1.378	0.21	0.09	0.138	343.858
1007	18-1-19	17-2-16	10	85.069	0.02	116.7	3.227	0.21	0.09	0.171	1,264.88
1031	19-1-05	19-1-04	10	303.991	0.01	65.1	1.818	0.2	0.09	0.17	715.317
1207	20-4-15	20-4-13	12	195.888	0.06	355.7	6.909	0.2	0.09	0.204	3,918.42
1030	19-1-04	19-1-03	10	300.714	0.01	65.1	1.825	0.2	0.09	0.169	719.204
1015	18-3-37	18-4-01	12	274.98	0	89.2	1.743	0.2	0.09	0.203	990.753
1343	29-1-02	29-1-28	10	420.998	0.09	268.3	7.592	0.2	0.09	0.168	3,004.81
1063	19-1-38	19-1-37	8	334.348	0.01	32.3	1.468	0.2	0.09	0.132	376.183
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1366	30-1-03	30-1-04	8	322.785	0.04	96.1	4.438	0.2	0.08	0.131	1,144.59
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
988	17-2-31	17-2-32	10	34.461	0.02	116.7	3.476	0.2	0.08	0.162	1,405.25
1340	28-4-04	28-4-03	8	400.195	0.08	123.5	5.813	0.19	0.08	0.129	1,511.06
1033	19-1-07	19-1-06	10	91.805	0.01	65.1	1.962	0.19	0.08	0.161	797.098
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1347	29-1-07	29-1-06	10	262.001	0.12	268.3	8.204	0.19	0.08	0.159	3,353.04
1371	30-1-08	30-1-11	8	56.083	0.11	144.2	6.944	0.19	0.08	0.127	1,822.60
1029	19-1-03	19-1-02	10	300.714	0.01	65.1	2.009	0.19	0.08	0.158	823.951
1330	28-3-15	28-3-14	8	202.922	0.08	123.5	5.958	0.19	0.08	0.127	1,564.69
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1045	19-1-20	19-1-38	8	252.835	0.01	32.3	1.62	0.19	0.08	0.123	432.594
1307	28-1-03	28-1-02	8	155.436	0.17	164.2	8.281	0.18	0.07	0.123	2,215.51
1408	30-4-03	30-4-02	8	394.827	0.06	96.1	4.873	0.18	0.07	0.122	1,306.78
1234	21-3-04	21-3-03	15	400.893	0.06	527.2	7.65	0.18	0.07	0.228	7,230.42
1028	19-1-02	19-1-01	10	265.303	0.01	65.1	2.134	0.18	0.07	0.152	897.861
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1331	28-3-17	28-3-15	8	415.509	0.11	123.5	6.496	0.18	0.07	0.119	1,768.60
1094	19-2-53	18-3-10	12	1,094.58	0.01	96.1	2.298	0.18	0.07	0.176	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	48.1	2.63	0.17	0.07	0.116	727.923
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1383	30-2-02	30-2-01	8	366.127	0.02	48.1	2.651	0.17	0.07	0.115	736.18
1339	28-4-03	28-3-17	8	355.875	0.12	123.5	6.811	0.17	0.07	0.115	1,891.81
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1344	29-1-03	29-1-02	10	553.688	0.18	268.3	9.572	0.17	0.06	0.143	4,173.42
1135	19-4-13	19-4-12	8	327.186	0.01	32.3	1.802	0.17	0.06	0.114	503.061
1351	29-1-19	29-1-18	10	127.562	0.19	268.3	9.739	0.17	0.06	0.142	4,276.76
1401	30-3-03	30-3-02	8	313.231	0.02	48.1	2.728	0.17	0.06	0.113	766.921
1208	20-4-16	20-4-15	12	367.616	0.13	355.7	9.029	0.17	0.06	0.169	5,726.79
1044	19-1-19	19-1-18	8	188.782	0.01	32.3	1.872	0.17	0.06	0.112	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	32.3	1.874	0.17	0.06	0.111	531.765
1406	30-4-01	30-1-45	8	298.989	0.09	96.1	5.659	0.17	0.06	0.11	1,615.90
1400	30-3-02	30-3-01	8	281.493	0.02	48.1	2.833	0.17	0.06	0.11	809.001
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1034	19-1-08	19-1-07	10	303.907	0.01	65.1	2.511	0.16	0.06	0.136	1,131.17
1402	30-3-04	30-3-03	8	249.614	0.03	48.1	2.955	0.16	0.06	0.107	859.109
1137	19-4-18	19-4-17	8	372.632	0.01	32.3	1.986	0.16	0.06	0.107	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	32.3	1.989	0.16	0.06	0.107	578.662
1407	30-4-02	30-4-01	8	403.34	0.1	96.1	5.977	0.16	0.06	0.106	1,746.43
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1032	19-1-06	19-1-05	10	215.234	0.02	65.1	2.731	0.15	0.05	0.128	1,275.16
1035	19-1-10	19-1-08	10	267.538	0.02	65.1	2.8	0.15	0.05	0.126	1,320.68

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1120	19-3-43	19-3-34	8	277.631	0.02	32.3	2.323	0.14	0.05	0.096	721.704
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237
1309	28-1-09	28-1-04	12	242.622	0.05	164.2	5.29	0.14	0.04	0.143	3,711.32
1345	29-1-05	29-1-03	10	176.995	0.38	268.3	12.471	0.14	0.04	0.119	6,079.90
1042	19-1-17	19-1-16	8	442.425	0.02	32.3	2.443	0.14	0.04	0.093	775.604
1136	19-4-17	19-4-13	8	239.707	0.02	32.3	2.447	0.14	0.04	0.093	777.493
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259
1245	21-3-28	21-3-10	18	171.574	0	123.2	1.858	0.14	0.04	0.207	2,997.81
1404	30-3-06	30-3-05	8	479.243	0.05	48.1	3.681	0.14	0.04	0.092	1,174.62
1012	18-3-33	18-3-38	12	234.47	0.02	89.2	3.057	0.14	0.04	0.137	2,201.35
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1219	21-1-06	WRFHEADWORKS	18	50	0.11	617.6	9.594	0.14	0.04	0.203	15,678.35
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1121	19-3-44	19-3-43	8	212.155	0.03	32.3	2.761	0.13	0.04	0.085	923.609
1117	19-3-34	19-3-33	8	161.198	0.03	32.3	2.81	0.13	0.03	0.084	947.138
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1237	21-3-07	21-3-13	18	111.052	0	94.8	1.709	0.12	0.03	0.184	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	94.8	1.71	0.12	0.03	0.183	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	94.8	1.714	0.12	0.03	0.183	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	94.8	1.715	0.12	0.03	0.183	2,990.43
1327	28-2-26	21-3-43	8	787.743	0.03	28.4	2.698	0.12	0.03	0.079	944.431
1313	28-1-13	28-1-12	12	301.095	0.07	123.5	5.301	0.12	0.03	0.118	4,203.92
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1405	30-3-07	30-3-06	8	183.457	0.13	48.1	5.33	0.11	0.02	0.071	1,992.53
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1062	19-1-37	19-1-19	8	25.33	0.06	32.3	3.633	0.11	0.02	0.071	1,366.73
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037
1116	19-3-33	19-4-18	8	61.971	0.08	32.3	3.92	0.1	0.02	0.067	1,524.43
1246	21-3-29	21-3-28	10	393.116	0.02	28.4	2.318	0.1	0.02	0.081	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	28.4	3.694	0.1	0.02	0.064	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	164.2	11.775	0.08	0.01	0.083	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	28.4	3.568	0.07	0.01	0.061	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	28.4	3.578	0.07	0.01	0.06	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	28.4	3.645	0.07	0.01	0.06	2,752.41
1038	19-1-13	19-1-01	8	398.608	0.01	5.3	1.078	0.07	0.01	0.047	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	5.3	1.142	0.07	0.01	0.045	569.174
1249	21-3-43	21-3-30	10	75.939	0.1	28.4	3.949	0.07	0.01	0.057	3,088.26
1040	19-1-15	19-1-14	8	399.382	0.01	5.3	1.236	0.07	0.01	0.043	638.155
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88
WITHOUT Carlsborg Flows											
1138	19-4-22	20-3-10	8	512.576	0.02	717.6	4.58	1	1.08	0.667	666.508
1160	20-1-13	20-1-07	15	117.439	0	2489.599	4.52	1	1.31	1.25	1896.836

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1161	20-1-19	20-1-13	15	165.416	0	2489.599	4.52	1	1.56	1.25	1598.262
1263	21-4-20	21-4-19	8	323.279	0	208.2	1.329	1	4.87	0.667	42.773
1158	20-1-06	21-2-01	8	57.456	0.01	2514.099	16.047	1	4.25	0.667	591.598
1387	30-2-13	30-2-12	8	176.304	0	17.196	0.11	1	1	0.667	17.196
1193	20-3-01	20-2-42	12	87.82	0	888.8	2.521	1	1.16	1	765.137
1141	19-4-25	19-4-24	8	56.351	0	548.9	3.504	1	1.69	0.667	323.97
1197	20-3-06	20-3-04	10	300.724	0.01	810.1	3.923	0.79	0.96	0.655	843.327
1091	19-2-44	19-2-46	8	579.954	0	96.1	0.734	0.78	0.95	0.52	100.985
1397	30-2-25	19-3-27	8	201.839	0	315.9	2.48	0.76	0.92	0.505	342.359
1139	19-4-23	19-4-22	8	659	0.01	548.9	4.313	0.76	0.92	0.505	595.401
1140	19-4-24	19-4-23	8	622.555	0.01	548.9	4.322	0.76	0.92	0.504	596.872
1385	30-2-12	30-2-11	8	253.12	0	315.9	2.488	0.76	0.92	0.504	343.507
1384	30-2-11	30-2-25	8	317.001	0	315.9	2.492	0.75	0.92	0.503	344.2
1142	19-4-26	19-4-25	8	412.69	0.01	548.9	4.409	0.74	0.9	0.494	610.42
1188	20-2-40	20-2-39	12	382.757	0	907.3	3.315	0.73	0.88	0.725	1,036.62
1226	21-2-06	21-1-01	18	790.804	0	2,514.10	4.159	0.71	0.86	1.069	2,935.75
1144	19-4-32	19-4-27	8	244.428	0.01	548.9	4.6	0.71	0.86	0.475	641.362
1143	19-4-27	19-4-26	8	277.611	0.01	548.9	4.62	0.71	0.85	0.473	644.544
1217	21-1-01	21-1-02	18	769.455	0	2,514.10	4.208	0.71	0.85	1.057	2,976.20
1145	19-4-33	19-4-32	8	193.37	0.01	548.9	4.678	0.7	0.84	0.467	654.371
1225	21-2-03	21-2-22	18	109	0.01	2,514.10	4.47	0.67	0.79	1.001	3,201.67
1146	19-4-34	19-4-33	8	222.441	0.02	513.6	4.726	0.66	0.76	0.436	672.312
1153	19-4-47	19-4-46	8	126.27	0	168.7	1.67	0.62	0.7	0.41	241.969
1147	19-4-40	19-4-34	8	331.621	0.02	513.6	5.088	0.61	0.7	0.41	737.535
1152	19-4-46	19-4-42	8	125.896	0	168.7	1.671	0.61	0.7	0.41	242.328
1173	20-2-05	20-2-04	15	311.909	0.01	1,401.40	3.954	0.61	0.7	0.767	2,015.97
1181	20-2-25	20-2-21	15	150.591	0.01	1,366.20	3.88	0.61	0.69	0.763	1,981.99
1171	20-1-51	20-1-19	15	399.329	0.01	2,084.40	6.082	0.6	0.67	0.746	3,130.23
1172	20-2-04	20-1-49	15	390.979	0.01	2,084.40	6.127	0.59	0.66	0.741	3,160.06
1179	20-2-17	20-2-46	15	330.36	0.01	1,373.80	4.043	0.59	0.66	0.741	2,085.37
1149	G&OADD2	19-4-40	8	356.5	0.02	511	5.328	0.59	0.65	0.392	783.474
1189	20-2-41	20-2-40	12	217.516	0.01	907.3	4.266	0.58	0.64	0.582	1,417.43
1192	20-2-46	20-2-05	15	322.684	0.01	1,373.80	4.135	0.58	0.64	0.727	2,146.94
1187	20-2-39	20-2-43	12	427.648	0.01	907.3	4.294	0.58	0.64	0.578	1,429.61
1317	28-1-20	28-1-19	8	64.719	0	208.2	2.269	0.57	0.62	0.378	337.98
1190	20-2-42	20-2-41	12	92.525	0.01	907.3	4.435	0.56	0.61	0.563	1,490.86
1185	20-2-34	20-2-32	15	328.102	0.01	1,341.00	4.208	0.56	0.61	0.702	2,212.20
1292	27-2-05	27-2-04	8	212.723	0	208.2	2.298	0.56	0.61	0.374	343.749

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1314	28-1-31	28-1-30	8	394.454	0	208.2	2.306	0.56	0.6	0.373	345.255
1191	20-2-43	20-2-38	12	369.052	0.01	907.3	4.544	0.55	0.59	0.552	1,538.93
1055	19-1-30	19-1-29	8	678.565	0.01	280	3.161	0.55	0.59	0.368	476.042
969	17-2-12	17-2-13	12	303.616	0	541	2.715	0.55	0.59	0.551	920.151
1265	21-4-24	21-4-21	8	126.481	0	208.2	2.357	0.55	0.59	0.367	355.323
1184	20-2-32	20-2-29	15	331.328	0.01	1,350.30	4.363	0.55	0.58	0.686	2,314.37
1302	27-2-21	27-2-20	8	161.176	0	195.5	2.245	0.54	0.58	0.363	339.984
1254	21-4-05	21-4-02	8	158.26	0	208.2	2.402	0.54	0.57	0.361	364.236
1299	27-2-18	27-2-10	8	188.538	0	195.5	2.261	0.54	0.57	0.361	342.981
1301	27-2-20	27-2-19	8	289.947	0	195.5	2.266	0.54	0.57	0.36	343.961
1303	27-2-22	27-2-21	8	167.014	0	195.5	2.268	0.54	0.57	0.36	344.429
1095	19-2-54	19-2-59	8	122.685	0.01	280	3.248	0.54	0.57	0.36	493.406
1304	27-2-23	27-2-22	8	149.448	0	195.5	2.268	0.54	0.57	0.36	344.564
1242	21-3-12	21-3-17	12	222.893	0	389.2	2.011	0.54	0.57	0.539	687.646
1186	20-2-38	20-2-34	15	438.816	0.01	1,288.20	4.266	0.54	0.57	0.672	2,280.30
1069	19-2-15	19-2-16	8	465.861	0.01	280	3.282	0.54	0.56	0.357	500.103
1070	19-2-16	19-2-54	8	329.97	0.01	280	3.282	0.54	0.56	0.357	500.039
1071	19-2-17	19-1-30	8	787.887	0.01	280	3.289	0.53	0.56	0.356	501.469
1363	29-3-16	29-3-17	8	401.862	0.01	268.3	3.175	0.53	0.55	0.354	485.261
1169	20-1-49	20-1-50	15	273.274	0.02	2,084.40	7.035	0.53	0.55	0.662	3,783.93
1170	20-1-50	20-1-51	15	271.108	0.02	2,084.40	7.052	0.53	0.55	0.661	3,794.91
1097	19-2-59	19-2-17	8	213.617	0.01	280	3.338	0.53	0.55	0.352	511.507
1067	19-2-12	19-2-14	8	206.905	0.01	263.3	3.205	0.52	0.53	0.346	494.369
1277	24-1-26	24-1-06	8	289.66	0.01	263.3	3.218	0.52	0.53	0.345	497.053
1269	24-1-05	24-1-26	8	370.137	0.01	263.3	3.221	0.52	0.53	0.345	497.667
1267	24-1-02	24-1-03	8	348.953	0.01	263.3	3.224	0.52	0.53	0.344	498.298
1271	24-1-07	24-1-08	8	352.346	0.01	263.3	3.225	0.52	0.53	0.344	498.425
1266	24-1-01	24-1-02	8	364.678	0.01	263.3	3.228	0.52	0.53	0.344	498.946
1096	19-2-56	19-2-10	8	449.312	0.01	263.3	3.233	0.52	0.53	0.344	500.1
1065	19-2-10	19-2-11	8	135.736	0.01	263.3	3.235	0.52	0.53	0.344	500.541
1066	19-2-11	19-2-12	8	294.868	0.01	263.3	3.236	0.52	0.53	0.343	500.72
1278	24-2-54	19-2-56	8	410.257	0.01	263.3	3.237	0.52	0.53	0.343	500.842
1274	24-1-14	24-1-01	8	220.548	0.01	263.3	3.243	0.51	0.52	0.343	502.072
1068	19-2-14	19-2-15	8	172.376	0.01	263.3	3.243	0.51	0.52	0.343	502.179
1272	24-1-08	24-2-54	8	112.394	0.01	263.3	3.245	0.51	0.52	0.343	502.578
1268	24-1-03	24-1-13	8	198.997	0.01	263.3	3.246	0.51	0.52	0.343	502.62
1273	24-1-13	24-1-05	8	257.402	0.01	263.3	3.246	0.51	0.52	0.343	502.741
1270	24-1-06	24-1-07	8	97.95	0.01	263.3	3.25	0.51	0.52	0.342	503.589

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1196	20-3-04	20-3-01	12	110.258	0.01	888.8	4.965	0.51	0.51	0.506	1,740.95
1110	19-3-26	19-4-44	8	285.064	0.01	315.9	3.982	0.51	0.51	0.337	621.212
1054	19-1-29	19-1-28	8	438.473	0.01	286.2	3.609	0.51	0.51	0.337	563.01
1053	19-1-28	19-1-27	8	259.296	0.01	286.2	3.667	0.5	0.5	0.332	575.095
1202	20-3-15	20-3-06	12	203.572	0.01	735.2	4.206	0.5	0.5	0.497	1,486.56
1230	21-2-22	21-2-06	18	1,831.00	0.01	2,514.10	6.395	0.5	0.49	0.745	5,086.60
1155	19-4-49	19-4-48	8	250.077	0	168.7	2.184	0.49	0.49	0.33	343.876
1200	20-3-10	20-3-08	12	348.384	0.01	717.6	4.13	0.49	0.49	0.494	1,462.82
1380	30-1-41	30-1-19	8	354.251	0	168.7	2.186	0.49	0.49	0.329	344.293
1223	21-2-01	21-2-02	18	518.06	0.01	2,514.10	6.451	0.49	0.49	0.74	5,146.34
1224	21-2-02	21-2-03	18	1,115.17	0.01	2,514.10	6.455	0.49	0.49	0.739	5,150.85
968	17-2-11	17-2-12	12	104.09	0.01	541	3.131	0.49	0.49	0.492	1,111.22
1159	20-1-07	20-1-06	18	1,319.26	0.01	2,489.60	6.436	0.49	0.48	0.736	5,147.03
1312	28-1-12	28-1-11	8	281.382	0	164.2	2.151	0.49	0.48	0.327	340.007
963	17-2-06	17-2-07	12	101.697	0.01	541	3.159	0.49	0.48	0.489	1,124.22
964	17-2-07	17-2-08	12	334.55	0.01	541	3.184	0.49	0.48	0.486	1,136.18
962	17-2-05	17-2-06	12	232.966	0.01	541	3.224	0.48	0.47	0.481	1,155.49
1166	20-1-34	20-1-30	12	354.986	0	375.1	2.248	0.48	0.47	0.479	807.304
967	17-2-10	17-2-11	12	218.347	0.01	541	3.272	0.48	0.46	0.476	1,178.66
1180	20-2-21	20-2-17	15	187.297	0.01	1,366.20	5.325	0.47	0.46	0.591	3,004.01
971	17-2-14	PWPS	12	184.844	0.01	541	3.297	0.47	0.45	0.473	1,191.02
1163	20-1-25	20-1-20	12	169.112	0	395.3	2.413	0.47	0.45	0.472	871.805
965	17-2-08	17-2-09	12	306.365	0.01	541	3.312	0.47	0.45	0.471	1,197.84
1199	20-3-08	20-3-15	12	166.018	0.01	735.2	4.538	0.47	0.45	0.468	1,646.13
994	17-3-04	17-2-05	12	221.097	0.01	541	3.376	0.46	0.44	0.464	1,229.42
1157	19-4-51	G&OADD2	8	411.715	0.02	315.9	4.487	0.46	0.43	0.307	729.048
1165	20-1-30	20-1-26	12	354.769	0	385.2	2.439	0.46	0.43	0.459	892.782
1364	29-3-17	29-3-18	10	402.175	0	268.3	2.447	0.46	0.43	0.383	621.901
1258	21-4-09	21-4-08	8	50.49	0.01	208.2	2.973	0.46	0.43	0.306	484.022
1386	30-2-13	30-2-12	10	215.752	0	261.203	2.432	0.45	0.42	0.377	622.502
1365	29-3-18	29-1-21	10	398.124	0	268.3	2.512	0.45	0.42	0.375	644.294
1349	29-1-17	29-1-16	10	418.361	0	268.3	2.519	0.45	0.42	0.374	646.739
1162	20-1-20	20-1-19	12	160.958	0	405.2	2.646	0.45	0.41	0.448	978.905
1289	27-2-02	27-2-01	8	113.774	0.01	208.2	3.09	0.45	0.41	0.297	509.82
1319	28-1-30	28-1-29	8	313.671	0.01	208.2	3.091	0.45	0.41	0.297	510.101
1353	29-1-21	29-1-20	10	402.791	0	268.3	2.554	0.44	0.41	0.37	659.121
1168	20-1-39	20-1-38	12	255.284	0	365	2.415	0.44	0.41	0.444	897.542
1264	21-4-21	21-4-20	8	149.173	0.01	208.2	3.132	0.44	0.4	0.294	519.235

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1154	19-4-48	19-4-47	8	241.949	0.01	168.7	2.57	0.44	0.39	0.291	428.176
1259	21-4-10	21-4-11	8	31.731	0.01	208.2	3.174	0.44	0.39	0.291	528.762
1255	21-4-06	21-4-05	8	322.106	0.01	208.2	3.18	0.44	0.39	0.29	530.03
1164	20-1-26	20-1-25	12	169.233	0	395.3	2.731	0.43	0.38	0.43	1,031.17
1024	18-4-25	18-4-24	8	397.125	0.01	180.8	2.815	0.43	0.38	0.286	472.646
1111	19-3-27	19-3-26	8	266.061	0.02	315.9	4.95	0.43	0.38	0.285	832.801
1022	18-4-23	17-2-01	8	384.354	0.01	180.8	2.849	0.43	0.38	0.283	480.434
961	17-2-04	17-3-01	12	345.616	0.01	530.8	3.731	0.42	0.38	0.424	1,417.12
1305	28-1-01	21-4-04	8	383.288	0.01	164.2	2.6	0.42	0.37	0.282	439.184
1098	19-2-62	19-2-39	8	362.45	0	96.1	1.529	0.42	0.37	0.281	258.656
1023	18-4-24	18-4-23	8	399.081	0.01	180.8	2.878	0.42	0.37	0.281	486.949
1290	27-2-03	27-2-02	8	149.302	0.01	208.2	3.323	0.42	0.37	0.281	562.945
1204	20-4-07	20-4-06	12	397.849	0	355.7	2.567	0.42	0.36	0.416	984.482
991	17-3-01	17-3-02	12	318.869	0.01	530.8	3.843	0.42	0.36	0.415	1,475.36
1052	19-1-27	19-1-26	8	403.413	0.02	286.2	4.695	0.41	0.36	0.275	803.166
1203	20-4-06	20-1-39	12	392	0	355.7	2.643	0.41	0.35	0.407	1,024.33
998	18-1-04	18-1-03	12	300.784	0	350	2.687	0.4	0.33	0.397	1,054.06
1167	20-1-38	20-1-34	12	191.441	0.01	365	2.802	0.4	0.33	0.397	1,099.32
1300	27-2-19	27-2-18	8	77.095	0.01	195.5	3.399	0.4	0.33	0.263	594.046
1216	20-4-42	20-4-07	12	329.641	0.01	355.7	2.75	0.4	0.33	0.395	1,081.55
1021	18-4-05	18-4-26	8	297.552	0.01	180.8	3.167	0.39	0.33	0.262	555.058
1005	18-1-11	18-1-18	8	149.044	0	116.7	2.071	0.39	0.32	0.259	364.602
1099	19-2-71	19-2-62	8	185.256	0	96.1	1.722	0.39	0.32	0.257	304.275
1025	18-4-26	18-4-25	8	396.401	0.01	180.8	3.241	0.39	0.32	0.257	572.925
1257	21-4-08	21-4-07	8	139.743	0.02	208.2	3.76	0.38	0.31	0.256	666.628
1150	19-4-44	19-4-51	8	213.037	0.04	315.9	5.714	0.38	0.31	0.256	1,013.51
1026	18-4-27	18-4-05	8	370.385	0.01	180.8	3.294	0.38	0.31	0.254	585.931
1001	18-1-07	18-1-06	12	453.25	0.01	350	2.849	0.38	0.31	0.38	1,142.13
1362	29-3-15	29-3-16	8	237.428	0.03	268.3	4.927	0.38	0.31	0.253	878.756
2	17-4-01	20-2-04	12	1,022.00	0.02	668.2	5.49	0.38	0.3	0.377	2,209.01
1359	29-3-12	29-3-13	8	328.996	0.03	268.3	5.021	0.37	0.3	0.249	901.92
970	17-2-13	17-2-14	12	53.433	0.01	541	4.529	0.37	0.3	0.372	1,835.12
1316	28-1-19	21-4-24	8	358.022	0.02	208.2	3.978	0.37	0.29	0.245	720.218
999	18-1-05	18-1-04	12	206.235	0.01	350	2.994	0.37	0.29	0.366	1,223.01
960	17-2-03	17-2-04	12	237.625	0.01	530.8	4.551	0.37	0.29	0.366	1,860.59
1183	20-2-29	20-2-28	15	69.913	0.03	1,358.60	7.545	0.36	0.28	0.453	4,842.54
1182	20-2-28	20-2-25	15	262.804	0.03	1,358.60	7.548	0.36	0.28	0.453	4,845.04
992	17-3-02	17-3-03	12	398.981	0.02	541	4.703	0.36	0.28	0.362	1,933.12

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1114	19-3-31	19-3-30	8	104.645	0	93.8	1.839	0.36	0.28	0.241	336.21
966	17-2-09	17-2-10	12	472.423	0.02	541	4.735	0.36	0.28	0.36	1,951.66
1377	30-1-18	19-4-45	8	350.408	0.02	195.1	3.849	0.36	0.28	0.24	705.631
959	17-2-02	17-2-03	12	400.873	0.01	530.8	4.67	0.36	0.28	0.359	1,928.56
1115	19-3-32	19-3-31	8	403.213	0	93.8	1.86	0.36	0.28	0.239	341.484
1112	19-3-28	30-2-13	8	269.428	0	93.8	1.864	0.36	0.27	0.238	342.696
1284	24-4-26	24-4-27	8	230.476	0	93.8	1.868	0.36	0.27	0.238	343.574
1285	24-4-27	19-3-32	8	415.524	0	93.8	1.868	0.36	0.27	0.238	343.712
1283	24-4-25	24-4-26	8	399.92	0	93.8	1.869	0.36	0.27	0.238	343.964
1282	24-4-24	24-4-25	8	297.246	0	93.8	1.87	0.36	0.27	0.238	344.076
1089	19-2-39	19-2-40	8	218.916	0	96.1	1.916	0.36	0.27	0.238	352.528
958	17-2-01	17-2-02	12	399.079	0.02	530.8	4.707	0.36	0.27	0.357	1,949.48
1355	29-2-43	30-1-20	8	362.02	0.01	168.7	3.415	0.35	0.27	0.235	632.015
1287	24-4-39	24-4-34	8	662.433	0	93.8	1.9	0.35	0.27	0.235	351.648
1379	30-1-20	30-1-41	8	66.423	0.01	168.7	3.419	0.35	0.27	0.235	632.995
997	18-1-03	18-1-21	12	510.506	0.01	350	3.241	0.35	0.26	0.345	1,364.97
995	18-1-01	17-2-01	12	406.186	0.01	350	3.263	0.34	0.25	0.344	1,377.91
993	17-3-03	17-3-04	12	281.199	0.02	541	5.094	0.34	0.25	0.341	2,159.23
1328	28-3-12	28-4-02	8	320.055	0.01	123.5	2.649	0.34	0.25	0.225	501.316
1392	30-2-18	30-2-17	10	372.265	0.01	184.6	2.576	0.33	0.24	0.278	766.539
1367	30-1-04	30-1-05	8	389.779	0.01	96.1	2.096	0.33	0.24	0.223	399.153
1008	18-1-21	18-1-02	12	145.768	0.01	350	3.394	0.33	0.24	0.334	1,454.73
1391	30-2-17	30-2-16	10	64.408	0.01	184.6	2.601	0.33	0.24	0.276	777.014
1113	19-3-30	19-3-28	8	590.482	0.01	93.8	2.067	0.33	0.24	0.221	395.288
1000	18-1-06	18-1-05	12	395.427	0.01	350	3.484	0.33	0.23	0.328	1,508.42
1004	18-1-10	18-1-11	8	343.962	0.01	116.7	2.616	0.33	0.23	0.218	503.61
1151	19-4-45	G&OADD2	8	185.247	0.02	195.1	4.395	0.33	0.23	0.218	847.557
1381	30-1-45	30-1-03	8	116.402	0.01	96.1	2.18	0.33	0.23	0.216	421.703
1376	30-1-17	30-1-18	8	382.118	0.03	195.1	4.431	0.32	0.23	0.216	857.437
1232	21-3-02	21-3-01	15	203.266	0.01	527.2	3.433	0.32	0.23	0.403	2,342.65
1374	30-1-15	30-1-16	8	321.214	0.03	195.1	4.474	0.32	0.23	0.215	868.858
1398	30-2-32	30-2-14	10	143.05	0.01	184.6	2.753	0.32	0.22	0.265	840.701
1251	21-4-02	G&OADD1	12	377.409	0.01	372.4	3.869	0.32	0.22	0.318	1,703.41
1206	20-4-13	20-4-12	12	193.1	0.01	355.7	3.703	0.32	0.22	0.317	1,631.72
1291	27-2-04	27-2-03	8	178.715	0.03	208.2	4.882	0.32	0.22	0.211	956.58
1213	20-4-35	20-4-31	8	628.236	0	73.9	1.748	0.32	0.22	0.21	343.728
1212	20-4-31	20-4-24	8	1,086.22	0	73.9	1.748	0.32	0.22	0.21	343.737
1205	20-4-12	20-4-42	12	178.123	0.01	355.7	3.742	0.32	0.22	0.315	1,655.92

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1003	18-1-09	18-1-10	8	367.771	0.01	116.7	2.77	0.31	0.21	0.209	545.445
1148	19-4-42	19-4-22	10	349.211	0.01	168.7	2.591	0.31	0.21	0.26	800.183
996	18-1-02	18-1-01	12	256.223	0.01	350	3.805	0.31	0.21	0.307	1,705.73
1286	24-4-34	24-4-24	8	208.15	0.01	93.8	2.3	0.31	0.21	0.205	458.545
1296	27-2-10	27-2-11	8	230.854	0.03	195.5	4.805	0.31	0.2	0.204	959.031
1235	21-3-05	21-3-04	15	509.884	0.01	527.2	3.707	0.31	0.2	0.381	2,606.80
1354	29-1-28	20-4-18	10	434.841	0.02	268.3	4.25	0.31	0.2	0.254	1,328.98
1260	21-4-11	21-4-09	8	350.326	0.04	208.2	5.189	0.3	0.2	0.202	1,041.49
1051	19-1-26	19-1-22	12	329.458	0.01	304.5	3.384	0.3	0.2	0.303	1,529.97
1002	18-1-08	18-1-09	8	365.984	0.01	116.7	2.924	0.3	0.2	0.201	588.071
1297	27-2-11	27-2-12	8	180.846	0.03	195.5	4.903	0.3	0.2	0.201	986.377
1352	29-1-20	29-1-19	10	419.219	0.02	268.3	4.402	0.3	0.19	0.248	1,395.69
1229	21-2-21	21-2-08	8	2,869.51	0	32.4	0.842	0.29	0.19	0.196	171.68
1262	21-4-19	21-4-18	8	208.771	0.04	208.2	5.408	0.29	0.19	0.196	1,103.06
1047	19-1-22	19-1-16	12	505.438	0.01	348.6	4.044	0.29	0.19	0.293	1,859.70
1396	30-2-23	30-2-21	10	196.778	0.01	184.6	3.088	0.29	0.19	0.244	986.537
1356	29-3-09	29-3-10	8	251.525	0.07	268.3	7.063	0.29	0.19	0.194	1,448.66
1358	29-3-11	29-3-12	8	279.115	0.08	268.3	7.213	0.29	0.18	0.191	1,491.62
1253	21-4-04	21-4-03	12	799.3	0	164.2	1.964	0.29	0.18	0.287	914.436
1298	27-2-12	SPYGLASSPUMP	8	67.828	0.04	195.5	5.277	0.29	0.18	0.191	1,092.97
1017	18-4-01	18-1-07	12	39.831	0.02	350	4.216	0.29	0.18	0.285	1,967.82
1020	18-4-04	18-4-03	12	384.556	0.01	260.8	3.17	0.28	0.18	0.284	1,485.25
1006	18-1-18	18-1-19	10	107.771	0.01	116.7	2.043	0.28	0.18	0.236	664.837
1256	21-4-07	21-4-06	8	60.782	0.05	208.2	5.723	0.28	0.17	0.188	1,193.95
1250	G&OADD1	21-3-12	12	389.309	0.02	389.2	4.776	0.28	0.17	0.282	2,246.06
1350	29-1-18	29-1-17	10	201.851	0.03	268.3	4.749	0.28	0.17	0.234	1,551.81
1019	18-4-03	18-4-02	12	506.848	0.01	260.8	3.209	0.28	0.17	0.281	1,510.74
1241	21-3-11	21-3-31	12	144.196	0.02	395.7	4.877	0.28	0.17	0.281	2,297.16
973	17-2-16	17-2-17	10	217.198	0.01	116.7	2.089	0.28	0.17	0.233	685.544
1361	29-3-14	29-3-15	8	241.785	0.09	268.3	7.527	0.28	0.17	0.186	1,583.44
1390	30-2-16	30-2-15	10	360.927	0.01	184.6	3.326	0.28	0.17	0.232	1,094.81
1318	28-1-29	28-1-20	8	363.951	0.05	208.2	5.865	0.28	0.17	0.185	1,235.61
1338	28-4-02	28-1-14	8	424.758	0.02	123.5	3.492	0.28	0.17	0.185	736.912
1261	21-4-18	21-4-10	8	249.725	0.05	208.2	5.935	0.28	0.17	0.184	1,256.39
1221	21-1-09	21-1-08	18	282.589	0.01	617.6	3.529	0.27	0.16	0.409	3,804.10
1222	21-1-10	21-1-09	18	400.197	0.01	617.6	3.533	0.27	0.16	0.408	3,810.25
1220	21-1-08	21-1-06	18	761.813	0.01	617.6	3.533	0.27	0.16	0.408	3,810.51
1357	29-3-10	29-3-11	8	398.375	0.09	268.3	7.777	0.27	0.16	0.181	1,657.27

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1240	21-3-10	21-3-05	15	274.714	0.01	518.9	4.283	0.27	0.16	0.34	3,210.21
1218	21-1-02	WRFHEADWORKS	18	50	0.11	2,514.10	14.492	0.27	0.16	0.406	15,678.35
1156	19-4-50	19-4-49	8	393.949	0.04	168.7	4.93	0.27	0.16	0.18	1,054.02
1011	18-3-32	18-3-33	12	211.336	0	89.2	1.166	0.27	0.16	0.269	562.37
1288	27-2-01	28-1-31	8	255.578	0.06	208.2	6.215	0.27	0.16	0.178	1,340.06
975	17-2-18	17-2-19	10	144.435	0.01	116.7	2.231	0.27	0.16	0.222	751.922
1248	21-3-31	21-3-10	12	133.4	0.03	395.7	5.317	0.26	0.15	0.264	2,593.32
1041	19-1-16	20-2-38	15	446.292	0.01	380.9	3.279	0.26	0.15	0.33	2,499.76
1311	28-1-11	28-1-10	12	243.143	0.01	164.2	2.21	0.26	0.15	0.264	1,078.42
1118	19-3-36	19-3-03	8	254.163	0.01	78.7	2.384	0.26	0.15	0.176	517.305
1103	19-3-04	19-3-36	8	322.71	0.01	78.7	2.384	0.26	0.15	0.176	517.278
1102	19-3-03	19-3-37	8	218.705	0.01	78.7	2.385	0.26	0.15	0.176	517.419
1119	19-3-37	19-3-02	8	174.483	0.01	78.7	2.385	0.26	0.15	0.176	517.477
1389	30-2-15	30-2-32	10	284.705	0.02	184.6	3.62	0.26	0.15	0.218	1,232.68
1194	20-3-02	20-3-03	8	231.027	0.01	78.7	2.428	0.26	0.15	0.174	530.663
1090	19-2-40	19-2-44	8	389.205	0.01	96.1	2.977	0.26	0.15	0.173	651.712
G&OPIPE1	21-2-08	21-2-07	18	200	0.01	559.6	3.435	0.26	0.15	0.388	3,811.19
1046	19-1-21	19-1-20	8	60.527	0	32.3	1.007	0.26	0.15	0.172	221.037
1227	21-2-07	21-1-10	18	102.071	0.01	559.6	3.447	0.26	0.15	0.387	3,829.92
1209	20-4-17	20-4-16	10	315.244	0.06	355.7	7.149	0.26	0.15	0.214	2,458.52
1100	19-3-01	19-4-05	8	69.164	0.01	78.7	2.481	0.26	0.14	0.171	547.077
1394	30-2-20	30-2-19	10	277.422	0.02	184.6	3.731	0.26	0.14	0.213	1,286.08
1393	30-2-19	30-2-18	10	145.678	0.02	184.6	3.732	0.26	0.14	0.213	1,286.47
1244	21-3-17	21-3-11	12	186.646	0.03	389.2	5.482	0.26	0.14	0.255	2,724.62
1360	29-3-13	29-3-14	8	236.006	0.12	268.3	8.539	0.26	0.14	0.17	1,889.73
1027	19-1-01	18-4-27	8	420.515	0.01	70.4	2.242	0.25	0.14	0.17	496.115
1133	19-4-11	19-4-09	8	444.228	0.01	74.9	2.388	0.25	0.14	0.17	528.762
1128	19-4-05	19-4-04	8	607.351	0.01	78.7	2.519	0.25	0.14	0.169	558.661
1101	19-3-02	19-3-01	8	138.518	0.01	78.7	2.53	0.25	0.14	0.169	562.104
980	17-2-23	17-2-24	10	299.088	0.01	116.7	2.402	0.25	0.14	0.211	834.02
1373	30-1-14	30-1-15	8	262.922	0.07	195.1	6.289	0.25	0.14	0.168	1,398.95
1228	21-2-11	21-2-08	18	760.617	0.01	527.2	3.37	0.25	0.14	0.377	3,801.93
987	17-2-30	17-2-33	10	267.515	0.01	116.7	2.418	0.25	0.14	0.21	841.806
1231	21-3-01	21-2-11	18	324.763	0.01	527.2	3.376	0.25	0.14	0.377	3,810.33
1009	18-3-01	18-4-04	12	36.125	0.01	260.8	3.759	0.25	0.14	0.251	1,886.27
981	17-2-24	17-2-25	10	296.445	0.01	116.7	2.425	0.25	0.14	0.209	845.522
982	17-2-25	17-2-26	10	346.589	0.01	116.7	2.426	0.25	0.14	0.209	845.73
1131	19-4-08	19-4-07	8	699.032	0.01	74.9	2.437	0.25	0.14	0.167	544.176

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
986	17-2-29	17-2-30	10	242.085	0.01	116.7	2.435	0.25	0.14	0.209	850.2
979	17-2-22	17-2-23	10	296.781	0.01	116.7	2.44	0.25	0.14	0.208	852.761
1124	19-4-01	20-3-02	8	400.051	0.01	78.7	2.576	0.25	0.14	0.166	576.75
1306	28-1-02	28-1-01	8	247.684	0.05	164.2	5.418	0.25	0.14	0.165	1,216.75
1127	19-4-04	19-4-03	8	720.386	0.01	78.7	2.598	0.25	0.14	0.165	583.708
1125	19-4-02	19-4-01	8	407.06	0.01	78.7	2.601	0.25	0.14	0.165	584.331
983	17-2-26	17-2-27	10	268.744	0.01	116.7	2.47	0.25	0.14	0.206	867.423
1395	30-2-21	30-2-20	10	217.583	0.02	184.6	3.951	0.25	0.13	0.205	1,394.12
1126	19-4-03	19-4-02	8	691.324	0.01	78.7	2.648	0.25	0.13	0.163	599.429
1130	19-4-07	19-4-06	8	605.46	0.01	74.9	2.522	0.25	0.13	0.163	571.195
1403	30-3-05	30-3-04	8	115.798	0.01	48.1	1.634	0.24	0.13	0.162	371.352
1013	18-3-35	18-3-36	12	292.402	0	89.2	1.347	0.24	0.13	0.243	689.014
1036	19-1-11	19-1-10	10	263.273	0	65.1	1.427	0.24	0.13	0.201	508.411
1348	29-1-16	29-1-07	10	187.628	0.05	268.3	5.937	0.24	0.13	0.2	2,123.14
1132	19-4-09	19-4-08	8	681.983	0.01	74.9	2.601	0.24	0.13	0.16	596.292
1369	30-1-06	30-1-08	8	302.642	0.05	144.2	5.009	0.24	0.13	0.16	1,148.53
1370	30-1-07	30-1-06	8	418.833	0.01	48.1	1.677	0.24	0.13	0.159	385.06
978	17-2-21	17-2-22	10	242.47	0.01	116.7	2.626	0.24	0.12	0.198	945.568
1329	28-3-14	28-3-12	8	340.805	0.04	123.5	4.407	0.24	0.12	0.157	1,021.69
1233	21-3-03	21-3-02	15	273.312	0.02	527.2	5.365	0.23	0.12	0.293	4,378.42
1016	18-3-38	18-3-35	12	253.099	0	89.2	1.427	0.23	0.12	0.233	747.408
1210	20-4-18	20-4-17	10	22.66	0.05	268.3	6.223	0.23	0.12	0.193	2,268.95
1378	30-1-19	19-4-50	8	139.234	0.07	168.7	6.13	0.23	0.12	0.155	1,431.63
1375	30-1-16	30-1-17	8	373.616	0.09	195.1	7.101	0.23	0.12	0.154	1,659.65
1275	24-1-15	24-1-14	12	431.609	0.02	263.3	4.273	0.23	0.12	0.231	2,250.02
1014	18-3-36	18-3-37	12	346.739	0	89.2	1.458	0.23	0.12	0.23	770.132
1129	19-4-06	20-3-07	8	70.467	0.01	74.9	2.758	0.23	0.12	0.153	647.808
1018	18-4-02	18-4-01	12	189.934	0.02	260.8	4.285	0.23	0.12	0.229	2,267.84
1382	30-2-01	30-1-07	8	267.898	0.01	48.1	1.784	0.23	0.11	0.152	420.257
976	17-2-19	17-2-20	10	293.842	0.01	116.7	2.776	0.23	0.11	0.19	1,022.48
1372	30-1-11	30-1-14	8	265.862	0.06	144.2	5.392	0.23	0.11	0.151	1,274.35
984	17-2-27	17-2-28	10	226.538	0.01	116.7	2.825	0.23	0.11	0.188	1,048.14
1368	30-1-05	30-1-06	8	198.059	0.03	96.1	3.638	0.23	0.11	0.15	864.026
989	17-2-32	PWPS	10	30.835	0.01	116.7	2.829	0.23	0.11	0.188	1,050.47
974	17-2-17	17-2-18	10	160.324	0.01	116.7	2.835	0.23	0.11	0.187	1,053.41
1010	18-3-10	18-3-01	12	398.208	0.02	260.8	4.405	0.23	0.11	0.225	2,357.59
985	17-2-28	17-2-29	10	221.792	0.01	116.7	2.846	0.22	0.11	0.187	1,059.29
1388	30-2-14	30-2-13	10	491.303	0.03	184.6	4.577	0.22	0.11	0.185	1,714.76

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1037	19-1-12	19-1-11	8	136.141	0.01	65.1	2.531	0.22	0.11	0.147	607.673
1308	28-1-04	28-1-03	8	163.086	0.08	164.2	6.39	0.22	0.11	0.147	1,535.33
1346	29-1-06	29-1-05	10	254.333	0.07	268.3	6.731	0.22	0.11	0.183	2,534.09
977	17-2-20	17-2-21	10	216.023	0.01	116.7	2.999	0.22	0.1	0.18	1,140.43
1315	28-1-14	28-1-13	8	328.472	0.05	123.5	5.071	0.21	0.1	0.142	1,245.47
1310	28-1-10	28-1-09	12	230.353	0.01	164.2	3.015	0.21	0.1	0.212	1,670.30
990	17-2-33	17-2-31	10	99.544	0.02	116.7	3.091	0.21	0.1	0.176	1,190.00
1198	20-3-07	20-3-06	8	454.124	0.02	74.9	3.107	0.21	0.1	0.141	766.399
1276	24-1-16	24-1-15	12	354.375	0.03	263.3	4.867	0.21	0.1	0.211	2,704.08
1072	19-2-18	19-1-25	8	597.147	0.01	44.1	1.843	0.21	0.1	0.14	456.061
1092	19-2-46	19-2-53	10	355.676	0.01	96.1	2.59	0.21	0.1	0.174	1,004.28
1122	19-3-46	19-3-44	8	148.328	0	32.3	1.377	0.21	0.09	0.138	343.549
1123	19-3-47	19-3-46	8	301.624	0	32.3	1.378	0.21	0.09	0.138	343.858
1007	18-1-19	17-2-16	10	85.069	0.02	116.7	3.227	0.21	0.09	0.171	1,264.88
1031	19-1-05	19-1-04	10	303.991	0.01	65.1	1.818	0.2	0.09	0.17	715.317
1207	20-4-15	20-4-13	12	195.888	0.06	355.7	6.909	0.2	0.09	0.204	3,918.42
1030	19-1-04	19-1-03	10	300.714	0.01	65.1	1.825	0.2	0.09	0.169	719.204
1015	18-3-37	18-4-01	12	274.98	0	89.2	1.743	0.2	0.09	0.203	990.753
1343	29-1-02	29-1-28	10	420.998	0.09	268.3	7.592	0.2	0.09	0.168	3,004.81
1063	19-1-38	19-1-37	8	334.348	0.01	32.3	1.468	0.2	0.09	0.132	376.183
1109	19-3-11	19-3-10	8	376.926	0.01	41.3	1.898	0.2	0.09	0.131	488.369
1107	19-3-09	19-3-08	8	341.178	0.01	41.3	1.904	0.2	0.08	0.131	490.875
1366	30-1-03	30-1-04	8	322.785	0.04	96.1	4.438	0.2	0.08	0.131	1,144.59
1050	19-1-25	19-1-24	8	722.453	0.01	44.1	2.043	0.2	0.08	0.13	527.58
988	17-2-31	17-2-32	10	34.461	0.02	116.7	3.476	0.2	0.08	0.162	1,405.25
1340	28-4-04	28-4-03	8	400.195	0.08	123.5	5.813	0.19	0.08	0.129	1,511.06
1033	19-1-07	19-1-06	10	91.805	0.01	65.1	1.962	0.19	0.08	0.161	797.098
1201	20-3-11	20-2-10	8	276.468	0	27.6	1.318	0.19	0.08	0.128	344.57
1347	29-1-07	29-1-06	10	262.001	0.12	268.3	8.204	0.19	0.08	0.159	3,353.04
1371	30-1-08	30-1-11	8	56.083	0.11	144.2	6.944	0.19	0.08	0.127	1,822.60
1029	19-1-03	19-1-02	10	300.714	0.01	65.1	2.009	0.19	0.08	0.158	823.951
1330	28-3-15	28-3-14	8	202.922	0.08	123.5	5.958	0.19	0.08	0.127	1,564.69
1049	19-1-24	19-1-23	8	632.352	0.01	44.1	2.141	0.19	0.08	0.126	563.915
1106	19-3-08	19-3-07	8	161.221	0.01	41.3	2.046	0.19	0.08	0.124	543.426
1105	19-3-07	19-3-05	8	203.305	0.01	41.3	2.053	0.19	0.08	0.124	546.062
1045	19-1-20	19-1-38	8	252.835	0.01	32.3	1.62	0.19	0.08	0.123	432.594
1307	28-1-03	28-1-02	8	155.436	0.17	164.2	8.281	0.18	0.07	0.123	2,215.51
1408	30-4-03	30-4-02	8	394.827	0.06	96.1	4.873	0.18	0.07	0.122	1,306.78

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1234	21-3-04	21-3-03	15	400.893	0.06	527.2	7.65	0.18	0.07	0.228	7,230.42
1028	19-1-02	19-1-01	10	265.303	0.01	65.1	2.134	0.18	0.07	0.152	897.861
1279	24-4-01	19-3-11	8	463.28	0.01	41.3	2.137	0.18	0.07	0.121	577.788
1331	28-3-17	28-3-15	8	415.509	0.11	123.5	6.496	0.18	0.07	0.119	1,768.60
1094	19-2-53	18-3-10	12	1,094.58	0.01	96.1	2.298	0.18	0.07	0.176	1,421.17
1399	30-3-01	30-2-02	8	347.693	0.02	48.1	2.63	0.17	0.07	0.116	727.923
1074	19-2-20	19-2-19	8	50.941	0	22.5	1.231	0.17	0.07	0.116	340.737
1076	19-2-22	19-2-23	8	53.372	0	22.5	1.236	0.17	0.07	0.116	342.73
1077	19-2-23	19-2-21	8	264.88	0	22.5	1.237	0.17	0.07	0.116	343.357
1088	19-2-38	19-2-24	8	298.506	0	22.5	1.237	0.17	0.07	0.116	343.349
1108	19-3-10	19-3-09	8	289.116	0.01	41.3	2.273	0.17	0.07	0.116	630.78
1078	19-2-24	19-2-22	8	301.341	0	22.5	1.239	0.17	0.07	0.116	343.735
1075	19-2-21	19-2-20	8	197.143	0	22.5	1.239	0.17	0.07	0.116	343.804
1383	30-2-02	30-2-01	8	366.127	0.02	48.1	2.651	0.17	0.07	0.115	736.18
1339	28-4-03	28-3-17	8	355.875	0.12	123.5	6.811	0.17	0.07	0.115	1,891.81
1104	19-3-05	19-3-04	8	319.64	0.01	41.3	2.278	0.17	0.07	0.115	632.925
1073	19-2-19	19-2-18	8	231.269	0	22.5	1.246	0.17	0.07	0.115	346.692
1344	29-1-03	29-1-02	10	553.688	0.18	268.3	9.572	0.17	0.06	0.143	4,173.42
1135	19-4-13	19-4-12	8	327.186	0.01	32.3	1.802	0.17	0.06	0.114	503.061
1351	29-1-19	29-1-18	10	127.562	0.19	268.3	9.739	0.17	0.06	0.142	4,276.76
1401	30-3-03	30-3-02	8	313.231	0.02	48.1	2.728	0.17	0.06	0.113	766.921
1208	20-4-16	20-4-15	12	367.616	0.13	355.7	9.029	0.17	0.06	0.169	5,726.79
1044	19-1-19	19-1-18	8	188.782	0.01	32.3	1.872	0.17	0.06	0.112	531.001
1043	19-1-18	19-1-17	8	679.753	0.01	32.3	1.874	0.17	0.06	0.111	531.765
1406	30-4-01	30-1-45	8	298.989	0.09	96.1	5.659	0.17	0.06	0.11	1,615.90
1400	30-3-02	30-3-01	8	281.493	0.02	48.1	2.833	0.17	0.06	0.11	809.001
1048	19-1-23	19-1-22	8	431.333	0.02	44.1	2.628	0.16	0.06	0.109	754.348
1034	19-1-08	19-1-07	10	303.907	0.01	65.1	2.511	0.16	0.06	0.136	1,131.17
1402	30-3-04	30-3-03	8	249.614	0.03	48.1	2.955	0.16	0.06	0.107	859.109
1137	19-4-18	19-4-17	8	372.632	0.01	32.3	1.986	0.16	0.06	0.107	577.329
1134	19-4-12	19-4-11	8	220.784	0.01	32.3	1.989	0.16	0.06	0.107	578.662
1407	30-4-02	30-4-01	8	403.34	0.1	96.1	5.977	0.16	0.06	0.106	1,746.43
1281	24-4-03	24-4-02	8	333.163	0.02	41.3	2.604	0.16	0.05	0.105	765.39
1032	19-1-06	19-1-05	10	215.234	0.02	65.1	2.731	0.15	0.05	0.128	1,275.16
1035	19-1-10	19-1-08	10	267.538	0.02	65.1	2.8	0.15	0.05	0.126	1,320.68
1195	20-3-03	20-3-04	8	39.636	0.09	78.7	5.386	0.15	0.05	0.099	1,638.88
1120	19-3-43	19-3-34	8	277.631	0.02	32.3	2.323	0.14	0.05	0.096	721.704
1085	19-2-34	19-2-33	8	332.521	0.01	16.2	1.172	0.14	0.04	0.096	365.237

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1309	28-1-09	28-1-04	12	242.622	0.05	164.2	5.29	0.14	0.04	0.143	3,711.32
1345	29-1-05	29-1-03	10	176.995	0.38	268.3	12.471	0.14	0.04	0.119	6,079.90
1042	19-1-17	19-1-16	8	442.425	0.02	32.3	2.443	0.14	0.04	0.093	775.604
1136	19-4-17	19-4-13	8	239.707	0.02	32.3	2.447	0.14	0.04	0.093	777.493
1086	19-2-35	19-2-34	8	404.934	0.01	16.2	1.231	0.14	0.04	0.092	391.612
1087	19-2-36	19-2-35	8	365.162	0.01	16.2	1.232	0.14	0.04	0.092	392.259
1245	21-3-28	21-3-10	18	171.574	0	123.2	1.858	0.14	0.04	0.207	2,997.81
1404	30-3-06	30-3-05	8	479.243	0.05	48.1	3.681	0.14	0.04	0.092	1,174.62
1012	18-3-33	18-3-38	12	234.47	0.02	89.2	3.057	0.14	0.04	0.137	2,201.35
1280	24-4-02	24-4-01	8	207.13	0.04	41.3	3.188	0.14	0.04	0.092	1,020.89
1084	19-2-33	19-2-32	8	344.933	0.01	16.2	1.257	0.14	0.04	0.091	403.597
1219	21-1-06	WRFHEADWORKS	18	50	0.11	617.6	9.594	0.14	0.04	0.203	15,678.35
1056	19-1-31	19-1-26	8	343.667	0.01	18.3	1.514	0.13	0.04	0.087	499.538
1079	19-2-28	19-1-21	8	650.475	0.01	16.2	1.383	0.13	0.04	0.085	462.245
1121	19-3-44	19-3-43	8	212.155	0.03	32.3	2.761	0.13	0.04	0.085	923.609
1117	19-3-34	19-3-33	8	161.198	0.03	32.3	2.81	0.13	0.03	0.084	947.138
1083	19-2-32	19-2-31	8	315.193	0.01	16.2	1.468	0.12	0.03	0.082	503.307
1237	21-3-07	21-3-13	18	111.052	0	94.8	1.709	0.12	0.03	0.184	2,975.55
1238	21-3-08	21-3-09	18	45.308	0	94.8	1.71	0.12	0.03	0.183	2,979.55
1243	21-3-13	21-3-08	18	480.196	0	94.8	1.714	0.12	0.03	0.183	2,989.14
1239	21-3-09	21-3-28	18	132.439	0	94.8	1.715	0.12	0.03	0.183	2,990.43
1327	28-2-26	21-3-43	8	787.743	0.03	28.4	2.698	0.12	0.03	0.079	944.431
1313	28-1-13	28-1-12	12	301.095	0.07	123.5	5.301	0.12	0.03	0.118	4,203.92
1057	19-1-32	19-1-31	8	425.744	0.02	18.3	1.833	0.12	0.03	0.077	656.237
1176	20-2-08	20-2-07	12	357.855	0	27.6	1.24	0.11	0.03	0.114	1,002.84
1175	20-2-07	20-2-06	12	348.219	0	27.6	1.252	0.11	0.03	0.113	1,016.62
1174	20-2-06	20-2-05	12	193.076	0	27.6	1.265	0.11	0.03	0.113	1,032.05
1058	19-1-33	19-1-32	8	695.085	0.02	18.3	1.893	0.11	0.03	0.075	687.197
1177	20-2-09	20-2-08	12	188.36	0	27.6	1.276	0.11	0.03	0.112	1,044.89
1236	21-3-06	21-3-07	18	367.661	0	73.9	1.591	0.11	0.03	0.163	2,989.09
1211	20-4-24	21-3-06	18	314.828	0	73.9	1.591	0.11	0.03	0.163	2,990.56
1405	30-3-07	30-3-06	8	183.457	0.13	48.1	5.33	0.11	0.02	0.071	1,992.53
1178	20-2-10	20-2-09	12	270.361	0.01	27.6	1.368	0.11	0.02	0.107	1,153.76
1062	19-1-37	19-1-19	8	25.33	0.06	32.3	3.633	0.11	0.02	0.071	1,366.73
1081	19-2-30	19-2-29	8	163.036	0.02	16.2	1.848	0.11	0.02	0.07	699.809
1080	19-2-29	19-2-28	8	17.12	0.02	16.2	1.885	0.1	0.02	0.069	719.866
1082	19-2-31	19-2-30	8	149.404	0.02	16.2	1.906	0.1	0.02	0.069	731.037
1116	19-3-33	19-4-18	8	61.971	0.08	32.3	3.92	0.1	0.02	0.067	1,524.43

TABLE E-17

City of Sequim Buildout Model Pipe Output

ID	From ID	To ID	Diameter (in)	Length (ft)	Slope	Total Flow (gpm)	Velocity (ft/s)	d/D	q/Q	Water Depth (ft)	Full Flow (gpm)
1246	21-3-29	21-3-28	10	393.116	0.02	28.4	2.318	0.1	0.02	0.081	1,438.70
1325	28-2-10	28-2-26	8	564.749	0.07	28.4	3.694	0.1	0.02	0.064	1,479.62
1252	21-4-03	21-4-02	12	24.809	0.53	164.2	11.775	0.08	0.01	0.083	11,650.78
1324	28-2-09	28-2-10	10	57.427	0.07	28.4	3.568	0.07	0.01	0.061	2,669.64
1342	28-4-07	28-2-09	10	227.599	0.07	28.4	3.578	0.07	0.01	0.06	2,680.38
1247	21-3-30	21-3-29	10	329.027	0.08	28.4	3.645	0.07	0.01	0.06	2,752.41
1038	19-1-13	19-1-01	8	398.608	0.01	5.3	1.078	0.07	0.01	0.047	523.922
1039	19-1-14	19-1-13	8	374.258	0.01	5.3	1.142	0.07	0.01	0.045	569.174
1249	21-3-43	21-3-30	10	75.939	0.1	28.4	3.949	0.07	0.01	0.057	3,088.26
1040	19-1-15	19-1-14	8	399.382	0.01	5.3	1.236	0.07	0.01	0.043	638.155
1215	20-4-37	20-4-24	8	518.3	0	0	0	0	0	0	343.664
1320	28-2-01	28-1-14	8	83.446	0.26	0	0	0	0	0	2,790.30
1321	28-2-02	28-2-01	8	344.255	0.26	0	0	0	0	0	2,795.89
1059	19-1-34	19-1-30	8	328.97	0.01	0	0	0	0	0	592.098
1334	28-3-53	28-3-52	8	1,281.40	0	0	0	0	0	0	343.742
1337	28-3-56	28-3-55	8	393.704	0	0	0	0	0	0	343.403
1336	28-3-55	28-3-54	8	378.328	0	0	0	0	0	0	343.553
1060	19-1-35	19-1-34	8	296.944	0.01	0	0	0	0	0	651.339
1333	28-3-52	28-4-05	8	283.022	0	0	0	0	0	0	343.916
1214	20-4-36	20-4-37	8	240.079	0	0	0	0	0	0	343.872
1093	19-2-52	19-1-40	8	323.726	0	0	0	0	0	0	343.277
1295	27-2-09	27-2-10	8	184.887	0.07	0	0	0	0	0	1,466.72
1293	27-2-07	27-2-08	8	224.276	0.05	0	0	0	0	0	1,200.49
1061	19-1-36	19-1-35	8	95.46	0.05	0	0	0	0	0	1,147.42
1322	28-2-03	28-2-02	8	125.759	0.05	0	0	0	0	0	1,207.44
1294	27-2-08	27-2-09	8	351.756	0.05	0	0	0	0	0	1,159.06
1341	28-4-05	28-4-04	8	172.131	0.12	0	0	0	0	0	1,903.93
1332	28-3-18	28-2-11	8	709.044	0.05	0	0	0	0	0	1,248.60
1323	28-2-04	28-2-03	8	65.103	0.06	0	0	0	0	0	1,359.68
1326	28-2-11	28-2-04	8	187.826	0.05	0	0	0	0	0	1,240.88
1335	28-3-54	28-3-53	8	288.927	0	0	0	0	0	0	343.079
1064	19-1-40	19-2-53	12	834.392	0	0	0	0	0	0	1,012.88

APPENDIX F

DETAILED CIP COST ESTIMATES

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-1
Auxiliary Generator Loadbanks

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	1	LUMP SUM	$ 5,000	$ 5,000
2	Auxiliary Generator Loadbanks	1	LUMP SUM	$ 29,000	$ 29,000

Subtotal	$	34,000
Tax rate (8.6%)		2,924
Subtotal:	$	36,900
Contingency (20%)	$	7,380
Total Estimated Construction Cost:	**$**	**44,000**
Engineering and Administrative Costs (25%):	$	11,000
Total Estimated Project Cost:	**$**	**55,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-2
WRF Headworks Modifications #1

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	1	LUMP SUM	$ 15,000	$ 15,000
2	Mechanical Fine Screen	1	LUMP SUM	$ 120,000	$ 120,000
3	Electrical Modifications	1	LUMP SUM	$ 20,000	$ 20,000
4	Channel Modifications	1	LUMP SUM	$ 11,000	$ 11,000

Subtotal	$	166,000
Tax rate (8.6%)		14,276
Subtotal:	$	180,300
Contingency (20%)	$	36,060
Total Estimated Construction Cost:	**$**	**216,000**
Engineering and Administrative Costs (25%):	$	54,000
Total Estimated Project Cost:	**$**	**270,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-3
Equalization Basin Aeration System Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	1	LUMP SUM	$ 3,000	$ 3,000
2	Aeration Equipment Improvements	1	LUMP SUM	$ 30,000	$ 20,000
3	Electrical	1	LUMP SUM	$ 10,000	$ 10,000

Subtotal	$ 33,000
Tax rate (8.6%)	2,838
Subtotal:	$ 35,800
Contingency (20%)	$ 7,160
Total Estimated Construction Cost:	**$ 43,000**
Engineering and Administrative Costs (25%):	$ 11,000
Total Estimated Project Cost:	**$ 54,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-4
Grit Removal System Replacement

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	1	LUMP SUM	$ 16,000	$ 16,000
2	Grit Removal System	1	LUMP SUM	$ 120,000	$ 120,000
3	Electrical Modifications	1	LUMP SUM	$ 25,000	$ 25,000
4	Channel / Piping Modifications	1	LUMP SUM	$ 10,000	$ 10,000

Subtotal	$	171,000
Tax rate (8.6%)		14,706
Subtotal:	$	185,700
Contingency (20%)	$	37,140
Total Estimated Construction Cost:	**$**	**223,000**
Engineering and Administrative Costs (25%):	$	56,000
Total Estimated Project Cost:	**$**	**279,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvement W-5
Aerobic Digester Aeration System Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 39,000	$ 39,000
2	Tank Modifications & Minor Changes	LUMP SUM		$ 30,000	$ 30,000
3	Piping	LUMP SUM		$ 20,000	$ 20,000
4	Electrical	LUMP SUM		$ 41,000	$ 41,000
5	Blowers, Enclosure, & Pad	LUMP SUM	LF	$ 110,000	$ 110,000
6	Dissolved Oxygen Sensors	4	EA	$ 5,000	$ 20,000
7	Diffusers	4,200	SF	$ 25	$ 105,000

Subtotal	$	365,000
Tax rate (8.6%)		31,390
Subtotal:	$	396,400
Contingency (20%)	$	79,280
Total Estimated Construction Cost:	**$**	**476,000**
Engineering and Administrative Costs (25%):	$	119,000
Total Estimated Project Cost:	**$**	**595,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-6
Purchase Land Near WRF

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Land Purchase	1	LUMP SUM	$ 150,000	$ 150,000

Subtotal	$	150,000
Tax rate (8.6%)		12,900
Subtotal:	$	162,900
Contingency (20%)	$	32,580
Total Estimated Construction Cost:	**$**	**195,000**
Engineering and Administrative Costs (0%):	$	-
Total Estimated Project Cost:	**$**	**195,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvement W-7
Class A Biosolids Distribution Center

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 62,000	$ 62,000
2	Distribution Center Building	LUMP SUM	$ 229,000	$ 229,000
3	Building HVAC	LUMP SUM	$ 40,000	$ 40,000
4	Building Slab	LUMP SUM	$ 155,000	$ 155,000
5	Odor Control	LUMP SUM	$ 60,000	$ 66,000
6	Electrical	LUMP SUM	$ 66,000	$ 70,000
7	Sitework	LUMP SUM	$ 15,000	$ 20,000
8	Asphalt	1,002 TN	$ 80	$ 80,160
9	Crushed Surfacing Base Course	3,240 TN	$ 18	$ 58,320
10	Storage Bays & Public Access Shed	LUMP SUM LF	$ 20,000	$ 30,000

Subtotal	$	810,480
Tax rate (8.6%)		69,701
Subtotal:	$	880,200
Contingency (20%)	$	176,040
Total Estimated Construction Cost:	**$**	**1,056,000**
Engineering and Administrative Costs (25%):	$	264,000
Total Estimated Project Cost:	**$**	**1,320,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvement W-8
Aerobic Digester Capacity Upgrades

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 174,000	$ 174,000
2	Minor Changes	LUMP SUM	$ 10,000	$ 10,000
3	Concrete	636 CY	$ 750	$ 477,000
4	Piping	LUMP SUM	$ 73,000	$ 73,000
5	Electrical	LUMP SUM	$ 137,000	$ 137,000
6	Blowers	1 EA	$ 65,000	$ 65,000
7	Crushed Surfacing Base Course	70 TN	$ 19	$ 1,330
8	Excavation, Backfill, Compaction, & Grading	LUMP SUM	$ 50,000	$ 50,000
9	Dissolved Oxygen Sensors	6 EA	$ 5,000	$ 30,000
10	Diffusers	2,450 SF	$ 25	$ 61,250
11	Additional Catwalk	186 SF	$ 125	$ 23,250
12	Stairs	LUMP SUM	$ 10,000	$ 10,000
13	FKC Equipment (RST, Polymer system)	LUMP SUM	$ 85,000	$ 85,000

Subtotal	$ 1,196,830
Tax rate (8.6%)	102,927
Subtotal:	$ 1,299,800
Contingency (20%)	$ 259,960
Total Estimated Construction Cost:	**$ 1,560,000**
Engineering and Administrative Costs (25%):	$ 390,000
Total Estimated Project Cost:	**$ 1,950,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
WRF Improvements W-9
WRF Headworks Modifications #2

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 15,000	$ 15,000
2	Mechanical Fine Screen	LUMP SUM	$ 130,000	$ 130,000
3	Electrical Modifications	LUMP SUM	$ 20,000	$ 20,000
4	Channel Modifications	LUMP SUM	$ 10,000	$ 10,000

Subtotal	$ 175,000
Tax rate (8.6%)	15,050
Subtotal:	$ 190,100
Contingency (20%)	$ 38,020
Total Estimated Construction Cost:	**$ 228,000**
Engineering and Administrative Costs (25%):	$ 57,000
Total Estimated Project Cost:	**$ 285,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Water Reuse System Improvement RW-1
WRF Recirculation Booster Pump

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 7,000	$ 7,000
2	Booster Pump Installation	LUMP SUM LS	$ 7,500	$ 7,500

Subtotal	$	14,500
Tax rate (8.6%)		1,247
Subtotal:	$	15,700
Contingency (20%)	$	3,140
Total Estimated Construction Cost:	**$**	**19,000**
Engineering and Administrative Costs (25%):	$	5,000
Total Estimated 2010 Project Cost:	**$**	**24,000**
Total Estimated 2013 Project Cost:	**$**	**25,000**

** ENR Values used are 8,952 (Dec, 2010) and 9,453 (Feb, 2013)

City of Sequim
Preliminary Project Cost Estimate
Water Reuse System Improvement RW-2
Rapid Infiltration Basin Improvements (Alternative 2)

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$	68,000	$ 68,000
2	Clearing & Grubbing	LUMP SUM	$	6,000	$ 6,000
3	Infiltration Basin Excavation w/Hauling	6,800 CY	$	10	$ 68,000
4	Infiltration Basin Topsoil	1,200 CY	$	25	$ 30,000
5	Infiltration Basin Drain Rock	2,300 CY	$	30	$ 69,000
6	Infiltration Basin Sand	5,600 TN	$	15	$ 84,000
7	Pond Relocation Demolition	LUMP SUM	$	10,000	$ 10,000
8	Pond Relocation Excavation	17,400 CY	$	10	$ 174,000
9	Pond Relocation Gravel	2,000 TN	$	18	$ 36,000
10	Pond Relocation Sand	1,200 TN	$	15	$ 18,000
11	Pond Relocation Lining	6,500 SY	$	4	$ 26,000
12	Reclaimed Water Piping System	63,600 SF	$	1.5	$ 95,400
13	Reclaimed Water Control Mechanism	LUMP SUM	$	15,000	$ 15,000
14	Miscellaneous Sitework	LUMP SUM	$	50,000	$ 50,000

Subtotal	$	749,400
Tax rate (8.6%)		64,448
Subtotal:	$	813,800
Contingency (20%)	$	162,760
Total Estimated Construction Cost:	**$**	**977,000**
Engineering and Administrative Costs (25%):	$	244,000
Total Estimated 2010 Project Cost:	**$**	**1,221,000**
Total Estimated 2013 Project Cost:	**$**	**1,289,300**

** ENR Values used are 8,952 (Dec, 2010) and 9,453 (Feb, 2013)

City of Sequim
Preliminary Project Cost Estimate
Water Reuse System Improvement RW-3
High Pressure Zone Expansion

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 58,000	$ 58,000
2	8-inch PVC Pipe w/fittings	7,700 LF	$ 31	$ 238,700
3	Booster Pump Station	1 EA	$ 90,000	$ 90,000
4	Storage Tank Feasibility Analysis	LUMP SUM	$ 30,000	$ 30,000
5	Storage Tank Refurbishing	LUMP SUM	$ 60,000	$ 60,000
6	8-inch Control Valve	3 EA	$ 1,500	$ 4,500
7	8-inch Pressure Reducing Valve	1 EA	$ 3,900	$ 3,900
8	8-inch Check Valve	1 EA	$ 1,000	$ 1,000
9	Miscellaneous Piping Configuration	LUMP SUM	$ 10,000	$ 10,000
10	Pavement Restoration	9,700 LF	$ 15	$ 145,500

Subtotal	$ 641,600
Tax rate (8.6%)	55,178
Subtotal:	$ 696,800
Contingency (20%)	$ 139,360
Total Estimated Construction Cost:	**$ 836,000**
Engineering and Administrative Costs (25%):	$ 209,000
Total Estimated 2010 Project Cost:	**$ 1,045,000**
Total Estimated 2013 Project Cost:	**$ 1,103,500**

** ENR Values used are 8,952 (Dec, 2010) and 9,453 (Feb, 2013)

City of Sequim
Preliminary Project Cost Estimate
Water Reuse System Improvement RW-4
Overall Network Expansion

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$	141,000	$ 141,000
2	6-inch PVC Pipe w/fittings	21,100 LF	$	22	$ 464,200
3	8-inch PVC Pipe w/fittings	13,600 LF	$	31	$ 421,600
4	6-inch Pressure Reducing Valve	1 EA	$	2,500	$ 2,500
6	Pavement Restoration	34,700 LF	$	15	$ 520,500

Subtotal	$	1,549,800
Tax rate (8.6%)		133,283
Subtotal:	$	1,683,100
Contingency (20%)	$	336,620
Total Estimated Construction Cost:	**$**	**2,020,000**
Engineering and Administrative Costs (25%):	$	505,000
Total Estimated 2010 Project Cost:	**$**	**2,525,000**
Total Estimated 2013 Project Cost:	**$**	**2,666,300**

** ENR Values used are 8,952 (Dec, 2010) and 9,453 (Feb, 2013)

City of Sequim
Preliminary Project Cost Estimate
Water Reuse System Improvement RW-5
WRF Reclaimed Water Pumping Facilities

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 30,000	$ 30,000
2	Remove & Reconfigure Pump & Shaft	2	EA	$ 25,000	$ 50,000
3	Pump Mounting Structure	LUMP SUM		$ 20,000	$ 20,000
4	Pump Reinstallation	2	EA	$ 10,000	$ 20,000
5	Pump Control Relocation	LUMP SUM	LF	$ 20,000	$ 20,000
6	12-inch Valve	3	EA	$ 2,500	$ 7,500
7	12-inch Cement Lined DI Pipe	400	LF	$ 75	$ 30,000
8	Flow Through Channel Roof	9,126	SF	$ 15	$ 135,000

Subtotal	$	312,500
Tax rate (8.6%)		26,875
Subtotal:	$	339,400
Contingency (20%)	$	67,880
Total Estimated Construction Cost:	**$**	**407,000**
Engineering and Administrative Costs (25%):	$	102,000
Total Estimated 2010 Project Cost:	**$**	**509,000**
Total Estimated 2013 Project Cost:	**$**	**537,500**

** ENR Values used are 8,952 (Dec, 2010) and 9,453 (Feb, 2013)

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-1
Cedar Street Sewer Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 66,000	$ 66,000
2	Locate Existing Utilities	LUMP SUM		$ 13,000	$ 13,000
3	Erosion Control	LUMP SUM		$ 13,000	$ 13,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	12-inch PVC Sewer Pipe	3,900	LF	$ 90	$ 351,000
6	Manholes	13	EA	$ 5,000	$ 65,000
7	Gravel Backfill	3,500	CY	$ 20	$ 70,000
8	Foundation Gravel	200	TN	$ 30	$ 6,000
9	HMA Cl. B PG 58-22	550	TN	$ 120	$ 66,000
10	Sawcutting	7,800	LF	$ 3	$ 23,400
11	Crushed Surfacing, Base Course	500	TN	$ 25	$ 12,500
12	Crushed Surfacing, Top Course	370	TN	$ 25	$ 9,250
13	Connections to Existing System	2	EA	$ 2,500	$ 5,000
14	Traffic Control	210	HRS	$ 95	$ 19,950
	Subtotal				$ 725,100
	Tax rate (8.6%)				62,359
	Subtotal:				$ 787,500
	Contingency (20%)				$ 157,500
	Total Estimated Construction Cost:				**$ 945,000**
	Engineering and Administrative Costs (25%):				$ 236,000
	Total Estimated Project Cost:				**$ 1,181,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-2
Etta Street Sewer Rehabilitation

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 9,000	$ 9,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 5,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	12-inch PVC Sewer Pipe	300	LF	$ 90	$ 27,000
6	Manholes	3	EA	$ 5,000	$ 15,000
7	Gravel Backfill	270	CY	$ 20	$ 5,400
8	Foundation Gravel	15	TN	$ 30	$ 450
9	HMA Cl. B PG 58-22	45	TN	$ 120	$ 5,400
10	Sawcutting	600	LF	$ 3	$ 1,800
11	Crushed Surfacing, Base Course	40	TN	$ 25	$ 1,000
12	Crushed Surfacing, Top Course	30	TN	$ 25	$ 750
13	Cold Mix Asphalt	45	TN	$ 110	$ 4,950
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	20	HRS	$ 95	$ 1,900
	Subtotal				$ 95,650
	Tax rate (8.6%)				8,226
	Subtotal:				$ 103,900
	Contingency (20%)				$ 20,780
	Total Estimated Construction Cost:				**$ 125,000**
	Engineering and Administrative Costs (25%):				$ 31,000
	Total Estimated Project Cost:				**$ 156,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-3
Doe Run Lift Station Improvements

NO.	ITEM	QUANTITY	UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM	$ 32,000	$ 32,000
2	Locate Existing Utilities	LUMP SUM	$ 3,000	$ 5,000
3	Duplex Submersible Lift Station (100 gpm/25hp)	LUMP SUM	$ 280,000	$ 280,000
4	Portable Generator	LUMP SUM	$ 35,000	$ 35,000

Subtotal	$	352,000
Tax rate (8.6%)		30,272
Subtotal:	$	382,300
Contingency (20%)	$	76,460
Total Estimated Construction Cost:	**$**	**459,000**
Engineering and Administrative Costs (25%):	$	115,000
Total Estimated Project Cost:	**$**	**574,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-4
Outfall Pipeline Repair/Replacement

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 58,000	$ 58,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	24-inch PVC Sewer Pipe	3,400	LF	$ 120	$ 408,000
6	Manholes	6	EA	$ 5,000	$ 30,000
7	Gravel Backfill	3,100	CY	$ 20	$ 62,000
8	Foundation Gravel	200	TN	$ 30	$ 6,000
9	HMA Cl. B PG 58-22	3	TN	$ 120	$ 360
10	Sawcutting	60	LF	$ 3	$ 180
11	Crushed Surfacing, Base Course	1,300	TN	$ 25	$ 32,500
12	Crushed Surfacing, Top Course	650	TN	$ 25	$ 16,250
13	Cold Mix Asphalt	3	TN	$ 110	$ 330
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	40	HRS	$ 95	$ 3,800
	Subtotal				$ 638,420
	Tax rate (8.6%)				54,904
	Subtotal:				$ 693,300
	Contingency (20%)				$ 138,660
	Total Estimated Construction Cost:				**$ 832,000**
	Engineering and Administrative Costs (25%):				$ 208,000
	Total Estimated Project Cost:				**$ 1,040,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-5
East Sequim Sewer Improvement #1

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 49,000	$ 49,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	8-inch PVC Sewer Pipe	3,750	LF	$ 70	$ 262,500
6	Manholes	13	EA	$ 5,000	$ 65,000
7	Gravel Backfill	3,400	CY	$ 20	$ 68,000
8	Foundation Gravel	200	TN	$ 30	$ 6,000
9	HMA Cl. B PG 58-22	0	TN	$ 120	$ -
10	Sawcutting	7,500	LF	$ 3	$ 22,500
11	Crushed Surfacing, Base Course	500	TN	$ 25	$ 12,500
12	Crushed Surfacing, Top Course	360	TN	$ 25	$ 9,000
13	Cold Mix Asphalt	0	TN	$ 110	$ -
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	200	HRS	$ 95	$ 19,000
	Subtotal				$ 534,500
	Tax rate (8.6%)				45,967
	Subtotal:				$ 580,500
	Contingency (20%)				$ 116,100
	Total Estimated Construction Cost:				**$ 697,000**
	Engineering and Administrative Costs (25%):				$ 174,000
	Total Estimated Project Cost:				**$ 871,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-6
Sequim Bay Lodge and State Park Pressure Main Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 5,000	$ 5,000
2	Locate Existing Utilities	LUMP SUM		$ 8,000	$ 8,000
3	Erosion Control	LUMP SUM		$ 5,000	$ 5,000
4	Trench Safety Systems	LUMP SUM		$ 2,000	$ 2,000
5	In-line valves	6	EA	$ 1,000	$ 6,000
6	Manholes	4	EA	$ 5,000	$ 20,000
7	Gravel Backfill	100	CY	$ 20	$ 2,000
8	Foundation Gravel	10	TN	$ 30	$ 300
9	HMA Cl. B PG 58-22	10	TN	$ 120	$ 1,200
10	Sawcutting	50	LF	$ 3	$ 150
11	Crushed Surfacing, Base Course	20	TN	$ 25	$ 500
12	Crushed Surfacing, Top Course	20	TN	$ 25	$ 500
13	Cold Mix Asphalt	10	TN	$ 110	$ 1,100
14	Connections to Existing System	0	EA	$ 2,500	$ -
15	Traffic Control	40	HRS	$ 95	$ 3,800
	Subtotal				$ 55,550
	Tax rate (8.6%)				4,777
	Subtotal:				$ 60,300
	Contingency (20%)				$ 12,060
	Total Estimated Construction Cost:				**$ 72,000**
	Engineering and Administrative Costs (25%):				$ 18,000
	Total Estimated Project Cost:				**$ 90,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-7
WRF Influent Trunk Pipeline Repair/Replacement

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 77,000	$ 77,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	24-inch PVC Sewer Pipe	5,000	LF	$ 120	$ 600,000
6	Manholes	10	EA	$ 5,000	$ 50,000
7	Gravel Backfill	4,500	CY	$ 20	$ 90,000
8	Foundation Gravel	250	TN	$ 30	$ 7,500
9	HMA Cl. B PG 58-22	0	TN	$ 120	$ -
10	Sawcutting	0	LF	$ 3	$ -
11	Crushed Surfacing, Base Course	0	TN	$ 25	$ -
12	Crushed Surfacing, Top Course	0	TN	$ 25	$ -
13	Cold Mix Asphalt	0	TN	$ 110	$ -
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	0	HRS	$ 95	$ -
	Subtotal				$ 845,500
	Tax rate (8.6%)				72,713
	Subtotal:				$ 918,200
	Contingency (20%)				$ 183,640
	Total Estimated Construction Cost:				**$ 1,102,000**
	Engineering and Administrative Costs (25%):				$ 276,000
	Total Estimated Project Cost:				**$ 1,378,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-8
Fir Street Sewer Improvement

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 58,000	$ 58,000
2	Locate Existing Utilities	LUMP SUM		$ 15,000	$ 15,000
3	Erosion Control	LUMP SUM		$ 15,000	$ 15,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	12-inch PVC Sewer Pipe	2,800	LF	$ 90	$ 252,000
6	Manholes	14	EA	$ 5,000	$ 70,000
7	Gravel Backfill	2,500	CY	$ 20	$ 50,000
8	Foundation Gravel	150	TN	$ 30	$ 4,500
9	HMA Cl. B PG 58-22	380	TN	$ 120	$ 45,600
10	Sawcutting	5,600	LF	$ 3	$ 16,800
11	Crushed Surfacing, Base Course	250	TN	$ 25	$ 6,250
12	Crushed Surfacing, Top Course	300	TN	$ 25	$ 7,500
13	Cold Mix Asphalt	380	TN	$ 110	$ 41,800
14	Connections to Existing System	13	EA	$ 2,500	$ 32,500
15	Traffic Control	150	HRS	$ 95	$ 14,250
	Subtotal				$ 634,200
	Tax rate (8.6%)				54,541
	Subtotal:				$ 688,700
	Contingency (20%)				$ 137,740
	Total Estimated Construction Cost:				**$ 826,000**
	Engineering and Administrative Costs (25%):				$ 207,000
	Total Estimated Project Cost:				**$ 1,033,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-9
Sunnyside Street Sewer Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 38,000	$ 38,000
2	Locate Existing Utilities	LUMP SUM		$ 15,000	$ 15,000
3	Erosion Control	LUMP SUM		$ 15,000	$ 15,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	18-inch PVC Sewer Pipe	1,500	LF	$ 110	$ 165,000
6	Manholes	10	EA	$ 5,000	$ 50,000
7	Gravel Backfill	1,400	CY	$ 20	$ 28,000
8	Foundation Gravel	80	TN	$ 30	$ 2,400
9	HMA Cl. B PG 58-22	225	TN	$ 120	$ 27,000
10	Sawcutting	3,000	LF	$ 3	$ 9,000
11	Crushed Surfacing, Base Course	125	TN	$ 25	$ 3,125
12	Crushed Surfacing, Top Course	150	TN	$ 25	$ 3,750
13	Cold Mix Asphalt	225	TN	$ 110	$ 24,750
14	Connections to Existing System	7	EA	$ 2,500	$ 17,500
15	Traffic Control	100	HRS	$ 95	$ 9,500
	Subtotal				$ 413,025
	Tax rate (8.6%)				35,520
	Subtotal:				$ 448,500
	Contingency (20%)				$ 89,700
	Total Estimated Construction Cost:				**$ 538,000**
	Engineering and Administrative Costs (25%):				$ 135,000
	Total Estimated Project Cost:				**$ 673,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-10
East Sequim Sewer Improvements #2

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 36,000	$ 36,000
2	Locate Existing Utilities	LUMP SUM		$ 5,000	$ 5,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	8-inch PVC Sewer Pipe	1,800	LF	$ 90	$ 162,000
6	Manholes	10	EA	$ 5,000	$ 50,000
7	Gravel Backfill	1,600	CY	$ 20	$ 32,000
8	Foundation Gravel	100	TN	$ 30	$ 3,000
9	HMA Cl. B PG 58-22	300	TN	$ 120	$ 36,000
10	Sawcutting	3,600	LF	$ 3	$ 10,800
11	Crushed Surfacing, Base Course	150	TN	$ 25	$ 3,750
12	Crushed Surfacing, Top Course	200	TN	$ 25	$ 5,000
13	Cold Mix Asphalt	250	TN	$ 110	$ 27,500
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	110	HRS	$ 95	$ 10,450
	Subtotal				$ 399,500
	Tax rate (8.6%)				34,357
	Subtotal:				$ 433,900
	Contingency (20%)				$ 86,780
	Total Estimated Construction Cost:				**$ 521,000**
	Engineering and Administrative Costs (25%):				$ 130,000
	Total Estimated Project Cost:				**$ 651,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-11
East Sequim Sewer Improvements #3

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 117,000	$ 117,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 8,000	$ 8,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	8-inch PVC Sewer Pipe	1,350	LF	$ 90	$ 121,500
6	8-inch Force Main	5,100	LF	$ 90	$ 459,000
7	Manholes	5	EA	$ 5,000	$ 25,000
8	Gravel Backfill	5,800	CY	$ 20	$ 116,000
9	Foundation Gravel	325	TN	$ 30	$ 9,750
10	HMA Cl. B PG 58-22	200	TN	$ 120	$ 24,000
11	Sawcutting	2,700	LF	$ 3	$ 8,100
12	Crushed Surfacing, Base Course	500	CY	$ 25	$ 12,500
13	Crushed Surfacing, Top Course	610	TN	$ 25	$ 15,250
14	Cold Mix Asphalt	200	TN	$ 110	$ 22,000
15	Connections to Existing System	2	EA	$ 2,500	$ 5,000
16	Lift Station	1	LS	$ 300,000	$ 300,000
17	Traffic Control	350	HRS	$ 95	$ 33,250
	Subtotal				$ 1,284,350
	Tax rate (8.6%)				110,454
	Subtotal:				$ 1,394,800
	Contingency (20%)				$ 278,960
	Total Estimated Construction Cost:				**$ 1,674,000**
	Engineering and Administrative Costs (25%):				$ 419,000
	Total Estimated Project Cost:				**$ 2,093,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-12
Hammond Street Sewer Extension

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 20,000	$ 20,000
2	Locate Existing Utilities	LUMP SUM		$ 5,000	$ 5,000
3	Erosion Control	LUMP SUM		$ 5,000	$ 5,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	8-inch PVC Sewer Pipe	1,000	LF	$ 90	$ 90,000
6	Manholes	4	EA	$ 5,000	$ 20,000
7	Gravel Backfill	900	CY	$ 20	$ 18,000
8	Foundation Gravel	50	TN	$ 30	$ 1,500
9	HMA Cl. B PG 58-22	140	TN	$ 120	$ 16,800
10	Sawcutting	2,000	LF	$ 3	$ 6,000
11	Crushed Surfacing, Base Course	75	CY	$ 25	$ 1,875
12	Crushed Surfacing, Top Course	100	TN	$ 25	$ 2,500
13	Cold Mix Asphalt	140	TN	$ 110	$ 15,400
14	Connections to Existing System	3	EA	$ 2,500	$ 7,500
15	Traffic Control	55	HRS	$ 95	$ 5,225
	Subtotal				$ 219,800
	Tax rate (8.6%)				18,903
	Subtotal:				$ 238,700
	Contingency (20%)				$ 47,740
	Total Estimated Construction Cost:				**$ 286,000**
	Engineering and Administrative Costs (25%):				$ 72,000
	Total Estimated Project Cost:				**$ 358,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-13
North Blake Street Sewer Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 9,000	$ 9,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 5,000	$ 5,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	18-inch PVC Sewer Pipe	300	LF	$ 110	$ 33,000
6	Manholes	3	EA	$ 5,000	$ 15,000
7	Gravel Backfill	270	CY	$ 20	$ 5,400
8	Foundation Gravel	15	TN	$ 30	$ 450
9	HMA Cl. B PG 58-22	45	TN	$ 120	$ 5,400
10	Sawcutting	600	LF	$ 3	$ 1,800
11	Crushed Surfacing, Base Course	25	CY	$ 25	$ 625
12	Crushed Surfacing, Top Course	30	TN	$ 25	$ 750
13	Cold Mix Asphalt	45	TN	$ 110	$ 4,950
14	Connections to Existing System	2	EA	$ 2,500	$ 5,000
15	Traffic Control	16	HRS	$ 95	$ 1,520
	Subtotal				$ 95,895
	Tax rate (8.6%)				8,247
	Subtotal:				$ 104,100
	Contingency (20%)				$ 20,820
	Total Estimated Construction Cost:				**$ 125,000**
	Engineering and Administrative Costs (25%):				$ 31,000
	Total Estimated Project Cost:				**$ 156,000**

** ENR Values used for November, 2012 were 9,398.

City of Sequim
Preliminary Project Cost Estimate
Collection System Improvement CS-14
West Fir Street Sewer Improvements

NO.	ITEM	QUANTITY		UNIT PRICE	AMOUNT
1	Mobilization, Cleanup, and Demobilization	LUMP SUM		$ 93,000	$ 93,000
2	Locate Existing Utilities	LUMP SUM		$ 3,000	$ 3,000
3	Erosion Control	LUMP SUM		$ 5,000	$ 5,000
4	Trench Safety Systems	LUMP SUM		$ 5,000	$ 5,000
5	18-inch PVC Sewer Pipe	4,600	LF	$ 110	$ 506,000
6	Manholes	15	EA	$ 5,000	$ 75,000
7	Gravel Backfill	4,100	CY	$ 20	$ 82,000
8	Foundation Gravel	240	TN	$ 30	$ 7,200
9	HMA Cl. B PG 58-22	625	TN	$ 120	$ 75,000
10	Sawcutting	9,200	LF	$ 3	$ 27,600
11	Crushed Surfacing, Base Course	340	CY	$ 25	$ 8,500
12	Crushed Surfacing, Top Course	440	TN	$ 25	$ 11,000
13	Cold Mix Asphalt	625	TN	$ 110	$ 68,750
14	Connections to Existing System	14	EA	$ 2,500	$ 35,000
15	Traffic Control	250	HRS	$ 95	$ 23,750
	Subtotal				$ 1,025,800
	Tax rate (8.6%)				88,219
	Subtotal:				$ 1,114,000
	Contingency (20%)				$ 222,800
	Total Estimated Construction Cost:				**$ 1,337,000**
	Engineering and Administrative Costs (25%):				$ 334,000
	Total Estimated Project Cost:				**$ 1,671,000**

** ENR Values used for November, 2012 were 9,398.

APPENDIX G

I/I MONITORING ASSESSMENT

Appendix G: Flow Monitoring Assessment

Flow monitoring was discussed in Chapter 5 – Infiltration and Inflow Evaluation. In an effort to reduce inflow and infiltration (I/I), the City installed several flow monitors which store data such as flow, depth, velocity, and other parameters. The City then contracted with a firm specializing in flow monitoring to collect, extract, and compile the data. Data was collected every five minutes and was plotted and analyzed. Below is a summary of the influent data. Files containing all influent and in-situ measurements are available on request.

Charts for selected dates and summary data are shown below.

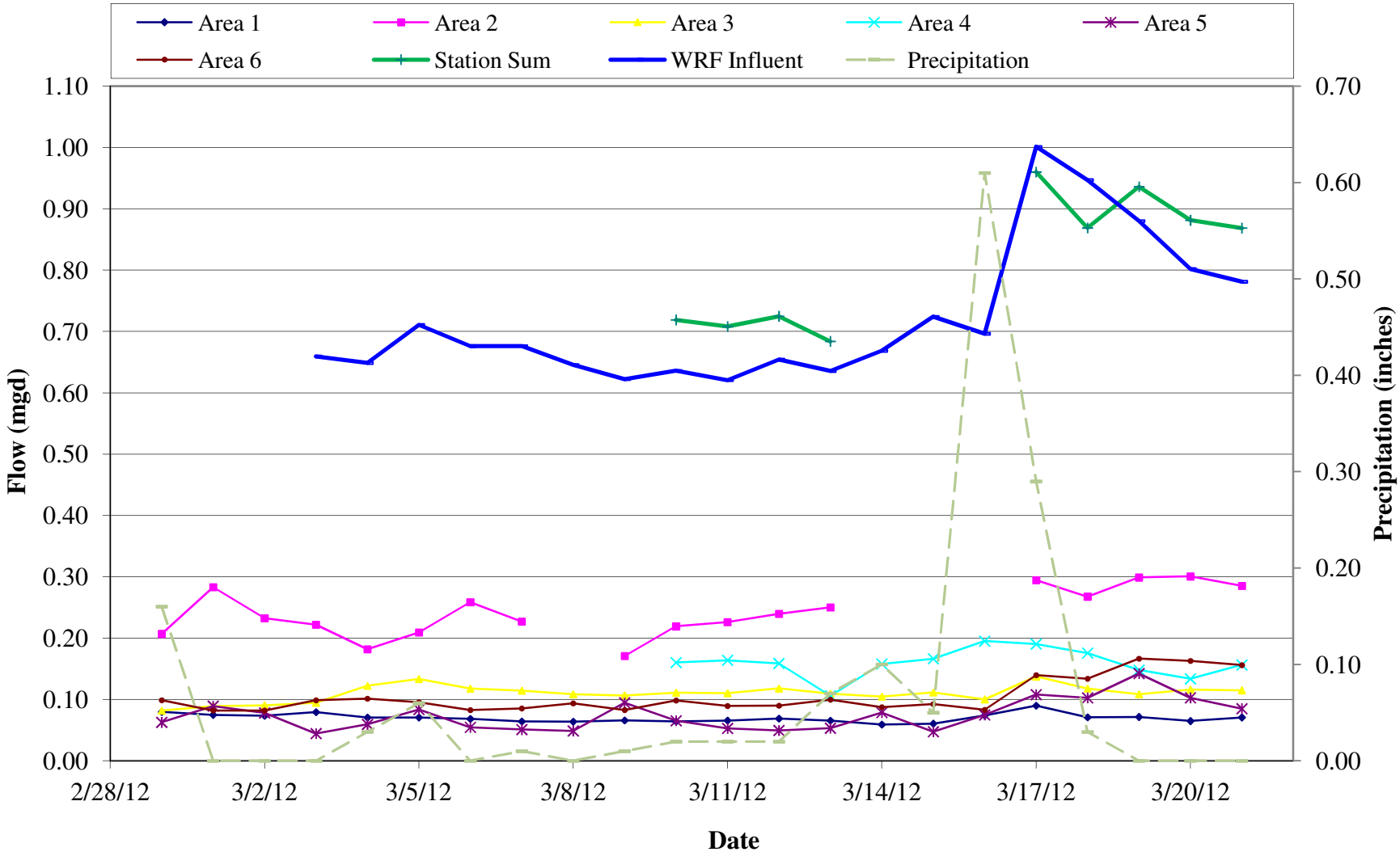
Date	Precip. (in)	Area 1 (St. 1)	Area 2 [2]	Area 3 (St. 3)	Area 4 (St. 4)	Area 5 (St. 5)	Area 6 (St. 6)	Station Sum	Station Sum [1]	WRF Influent	WRF Influent [1]	Difference (Sum - WRF)	Percent Difference (Sum - WRF)/WRF
2/29/12	0.16	0.0799	0.2070	0.0818		0.0628	0.0989	**0.5304**					
3/1/12	0.00	0.0749	0.2830	0.0891		0.0892	0.0821	**0.6184**					
3/2/12	0.00	0.0736	0.2325	0.0906		0.0782	0.0820	**0.5568**					
3/3/12	0.00	0.0795	0.2220	0.0946		0.0444	0.0987	**0.5393**		0.6592			
3/4/12	0.03	0.0706	0.1820	0.1223		0.0595	0.1013	**0.5357**		0.6486			
3/5/12	0.06	0.0707	0.2092	0.1333		0.0838	0.0955	**0.5925**		0.7106			
3/6/12	0.00	0.0685	0.2585	0.1177		0.0547	0.0827	**0.5821**		0.6762			
3/7/12	0.01	0.0642	0.2269	0.1144		0.0510	0.0855	**0.5421**		0.6760			
3/8/12	0.00	0.0639		0.1086		0.0487	0.0937			0.6453			
3/9/12	0.01	0.0660	0.1708	0.1065		0.0946	0.0829	**0.5209**		0.6223			
3/10/12	0.02	0.0641	0.2193	0.1111	0.1603	0.0654	0.0985	**0.7188**	**0.7188**	0.6359	0.6359	0.0829	13%
3/11/12	0.02	0.0656	0.2261	0.1103	0.1639	0.0529	0.0894	**0.7082**	**0.7082**	0.6207	0.6207	0.0876	14%
3/12/12	0.02	0.0689	0.2396	0.1180	0.1588	0.0495	0.0899	**0.7247**	**0.7247**	0.6542	0.6542	0.0706	11%
3/13/12	0.07	0.0656	0.2501	0.1092	0.1060	0.0533	0.0998	**0.6839**	**0.6839**	0.6355	0.6355	0.0484	8%
3/14/12	0.10	0.0592		0.1046	0.1580	0.0788	0.0874			0.6685			
3/15/12	0.05	0.0606		0.1115	0.1665	0.0474	0.0926			0.7240			
3/16/12	0.61	0.0741		0.1003	0.1953	0.0749	0.0833			0.6963			
3/17/12	0.29	0.0899	0.2946	0.1374	0.1904	0.1080	0.1397	**0.9600**	**0.9600**	1.0012	1.0012	-0.0412	-4%
3/18/12	0.03	0.0709	0.2677	0.1178	0.1758	0.1027	0.1339	**0.8688**	**0.8688**	0.9470	0.9470	-0.0782	-8%
3/19/12	0.00	0.0716	0.2989	0.1085	0.1481	0.1423	0.1665	**0.9359**	**0.9359**	0.8801	0.8801	0.0558	6%
3/20/12	0.00	0.0649	0.3006	0.1163	0.1337	0.1028	0.1630	**0.8814**	**0.8814**	0.8020	0.8020	0.0794	10%
3/21/12	0.00	0.0708	0.2853	0.1150	0.1564	0.0850	0.1560	**0.8686**	**0.8686**	0.7812	0.7812	0.0874	11%
AVERAGE		**0.0699**	**0.2430**	**0.1100**	**0.1594**	**0.0741**	**0.1047**	**0.6871**	**0.8167**		**0.7731**	**0.0436**	**7%**
PERCENT OF SUM		**10.2%**	**35.4%**	**16.0%**	**23.2%**	**10.8%**	**15.2%**	**100.0%**					
Low Precipitation Baseline		0.0660	0.2212	0.1110	0.1473	0.0631	0.0921	**0.6713**	**0.6713**	0.6337			
High Precipitation Peak Day		0.0899	0.2946	0.1374	0.1904	0.1080	0.1397	**0.9600**	**0.9600**	1.0012			
I/I Peak Day		0.0239	0.0734	0.0264	0.0431	0.0448	0.0476	**0.2592**	**0.2592**	0.3675			
Percent of WRF Influent I/I		6%	20%	7%	12%	12%	13%	**71%**	**71%**	Some of the rest (29%) may come from the area just west of the WRF			

(1) Includes only days where all stations are reporting.

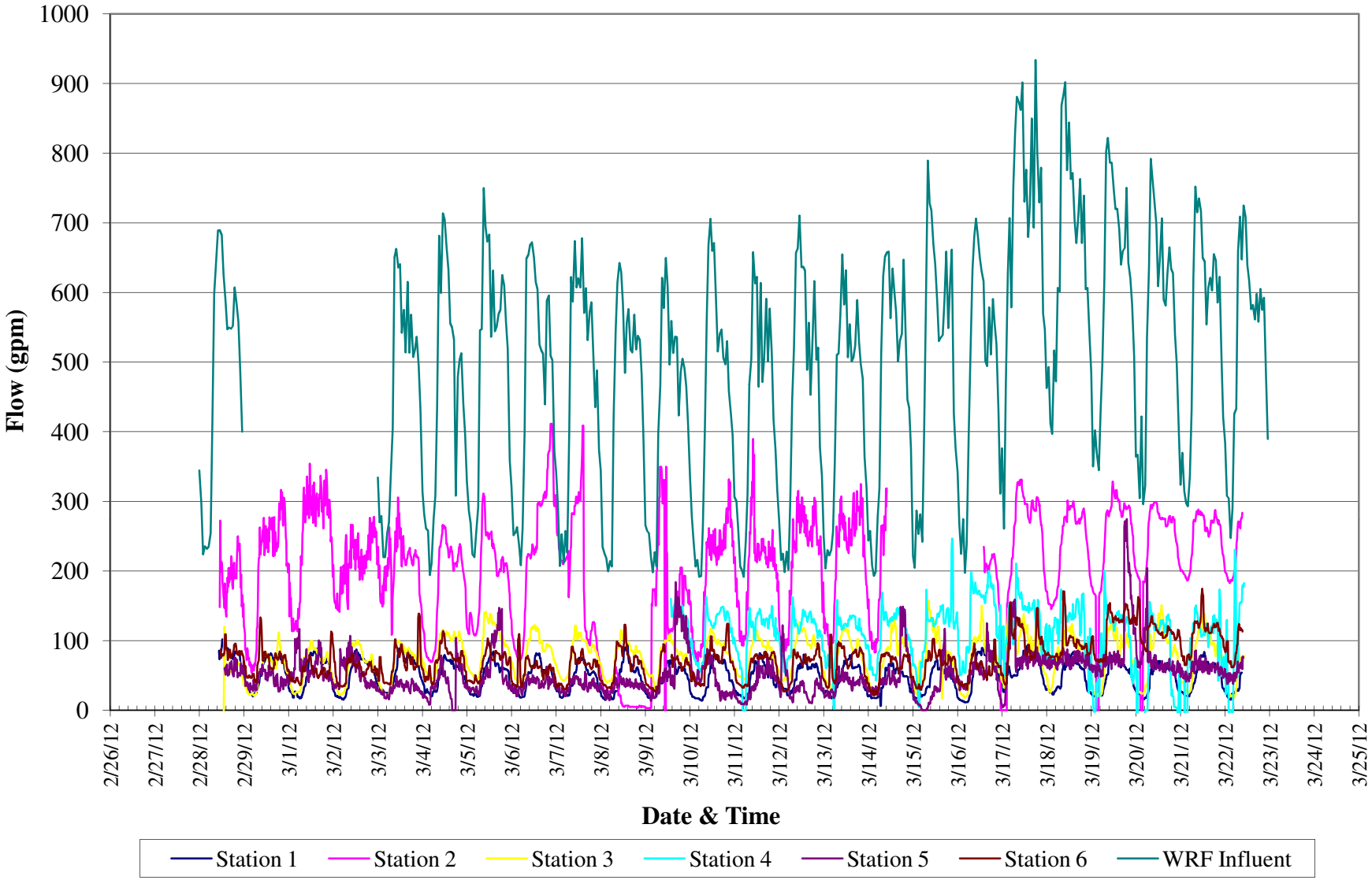
(2) Includes difference between Station 2 and Station 1.

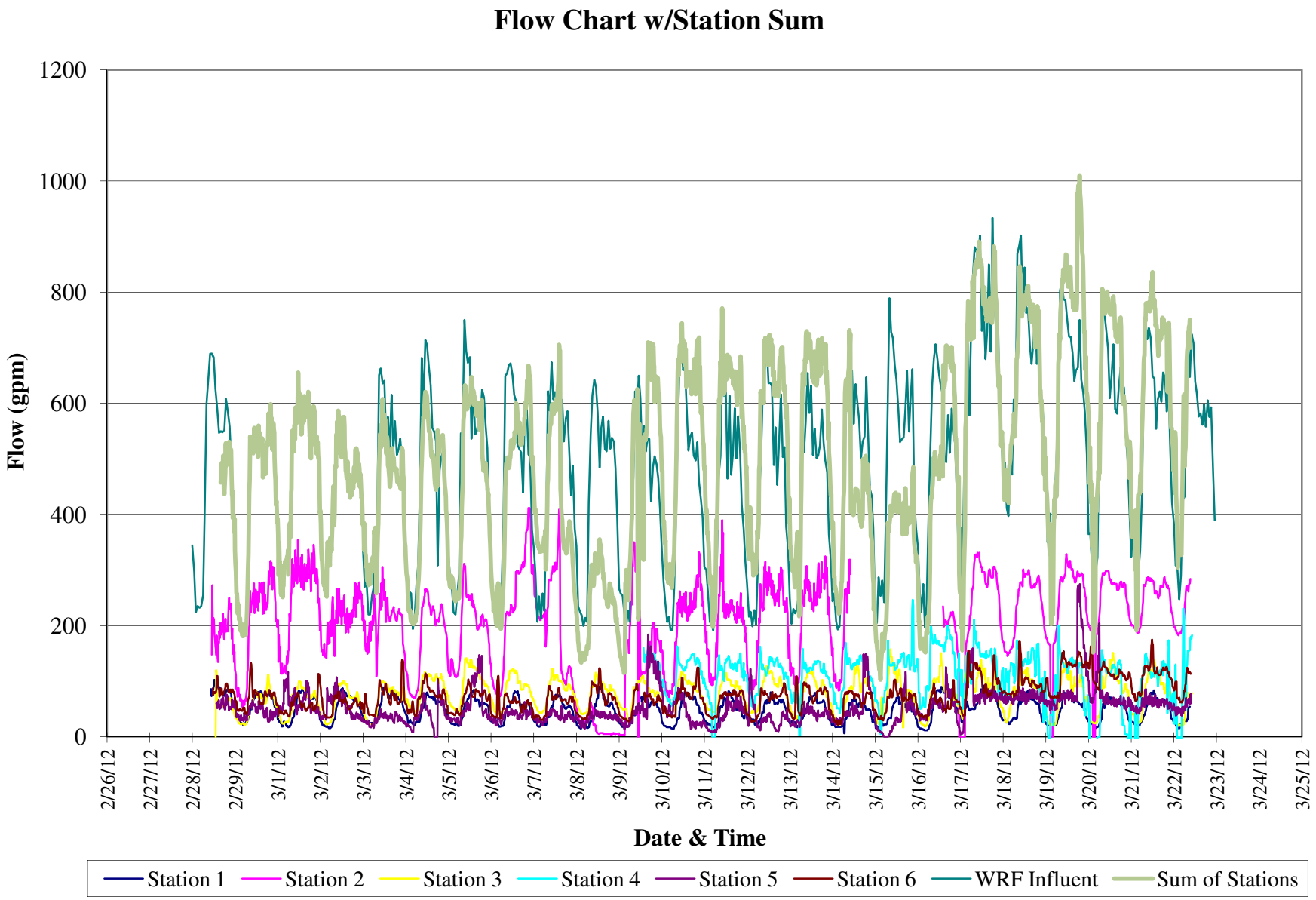
(3) Values other than precipitation are in MGD.

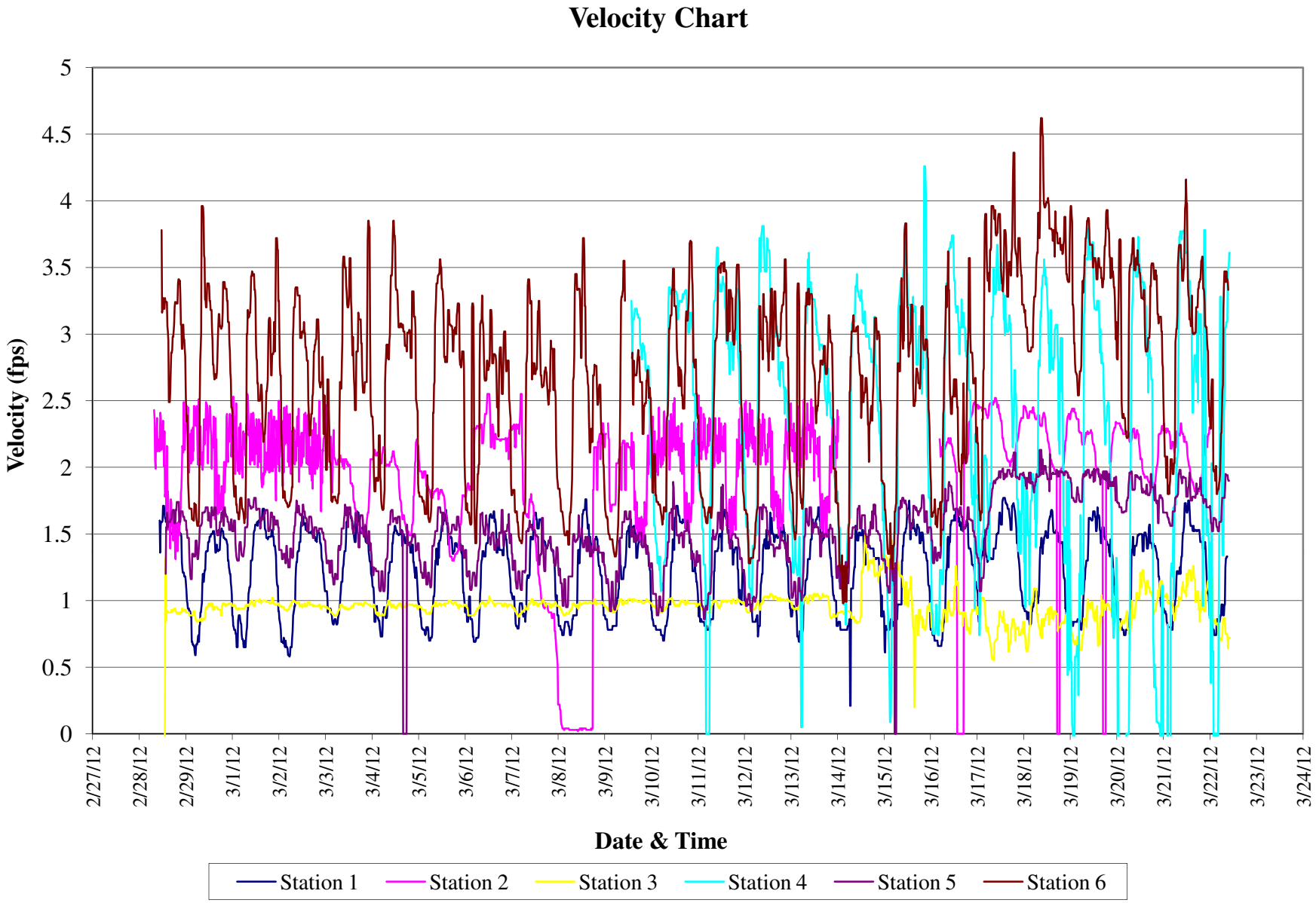
Flow Monitoring Summary



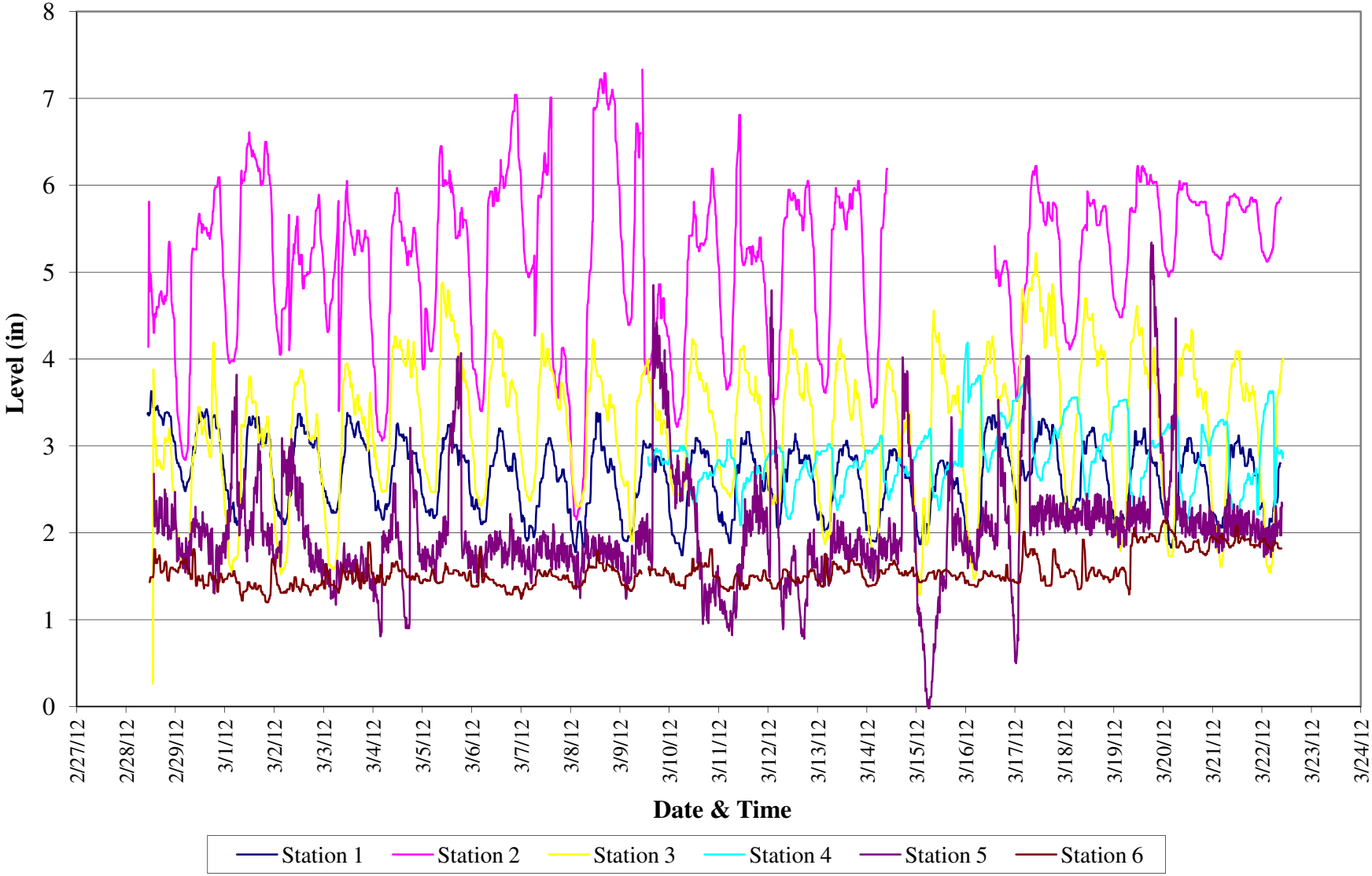
Flow Chart


Flow (gpm)
1000
900
800
700
600
500
400
300
200
100
0
2/26/12
2/27/12
2/28/12
2/29/12
3/1/12
3/2/12
3/3/12
3/4/12
3/5/12
3/6/12
3/7/12
3/8/12
3/9/12
3/10/12
3/11/12
3/12/12
3/13/12
3/14/12
3/15/12
3/16/12
3/17/12
3/18/12
3/19/12
3/20/12
3/21/12
3/22/12
3/23/12
3/24/12
3/25/12
Date & Time
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
WRF Influent

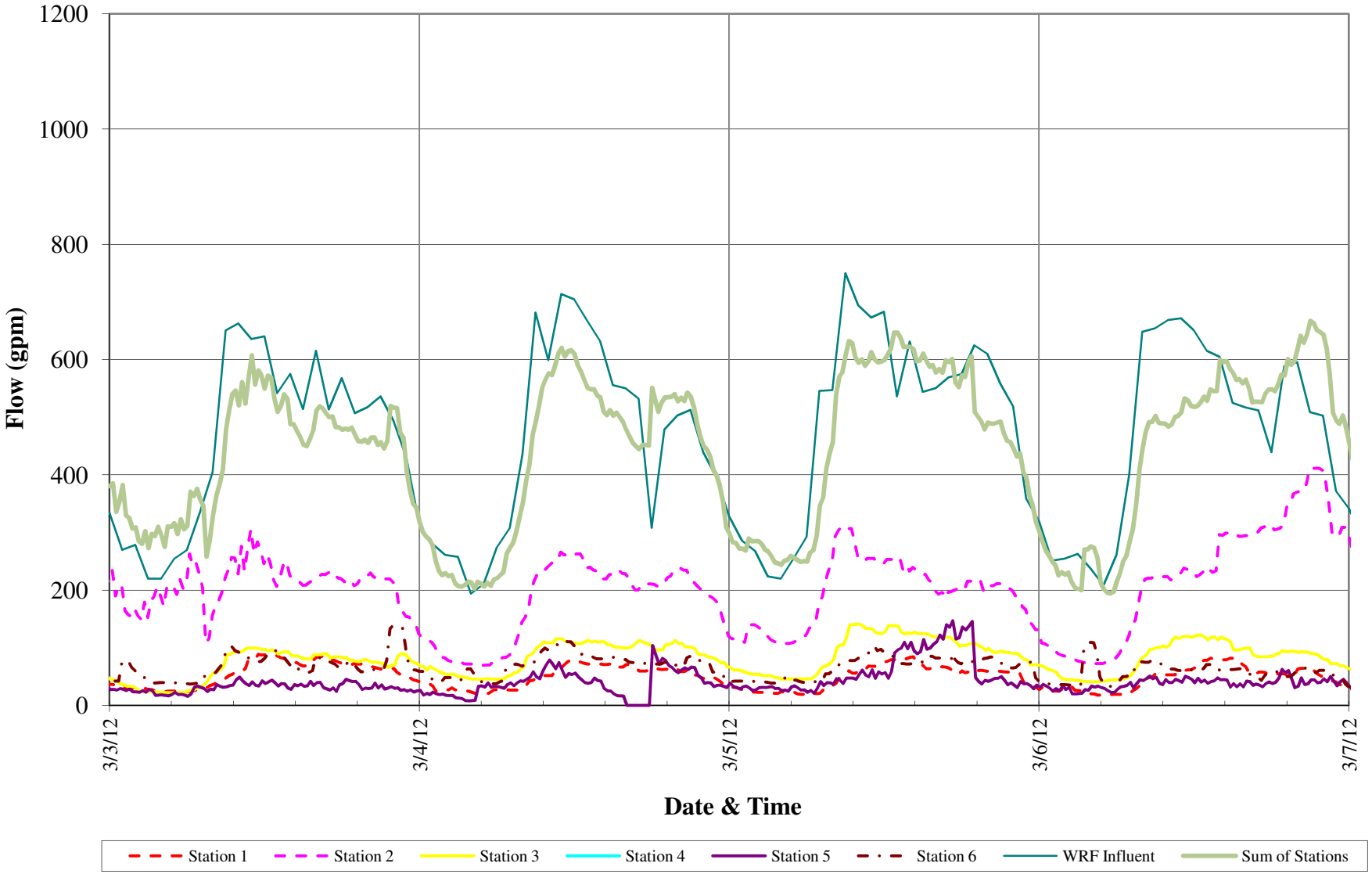

Flow Chart w/Station Sum
Flow (gpm)
1200
1000
800
600
400
200
0
2/26/12
2/27/12
2/28/12
2/29/12
3/1/12
3/2/12
3/3/12
3/4/12
3/5/12
3/6/12
3/7/12
3/8/12
3/9/12
3/10/12
3/11/12
3/12/12
3/13/12
3/14/12
3/15/12
3/16/12
3/17/12
3/18/12
3/19/12
3/20/12
3/21/12
3/22/12
3/23/12
3/24/12
3/25/12
Date & Time
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6
WRF Influent
Sum of Stations


Velocity Chart
Velocity (fps)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
2/27/12
2/28/12
2/29/12
3/1/12
3/2/12
3/3/12
3/4/12
3/5/12
3/6/12
3/7/12
3/8/12
3/9/12
3/10/12
3/11/12
3/12/12
3/13/12
3/14/12
3/15/12
3/16/12
3/17/12
3/18/12
3/19/12
3/20/12
3/21/12
3/22/12
3/23/12
3/24/12
Date & Time
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6

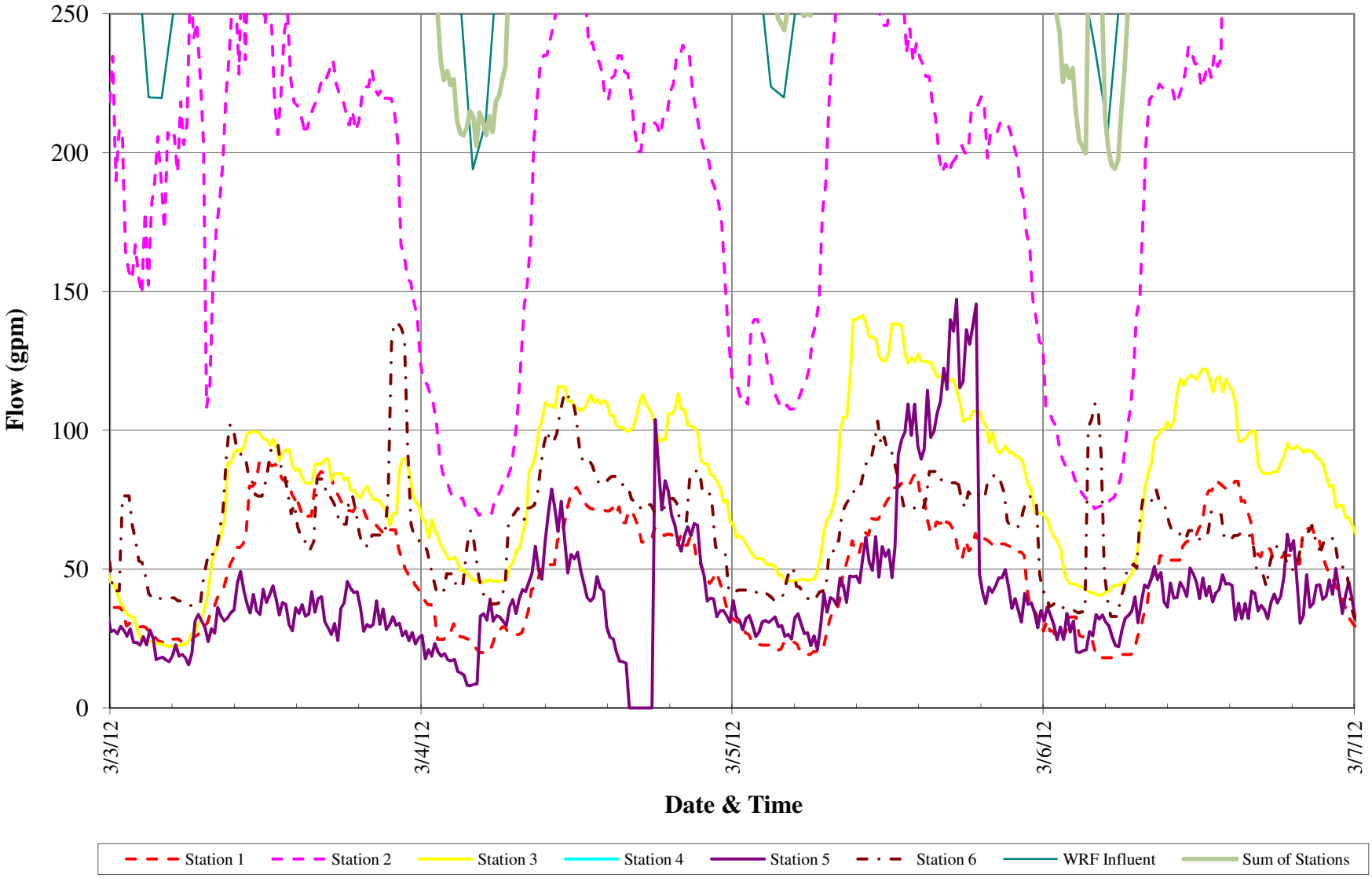
Level Chart


Level (in)
8
7
6
5
4
3
2
1
0
2/27/12
2/28/12
2/29/12
3/1/12
3/2/12
3/3/12
3/4/12
3/5/12
3/6/12
3/7/12
3/8/12
3/9/12
3/10/12
3/11/12
3/12/12
3/13/12
3/14/12
3/15/12
3/16/12
3/17/12
3/18/12
3/19/12
3/20/12
3/21/12
3/22/12
3/23/12
3/24/12
Date & Time
Station 1
Station 2
Station 3
Station 4
Station 5
Station 6

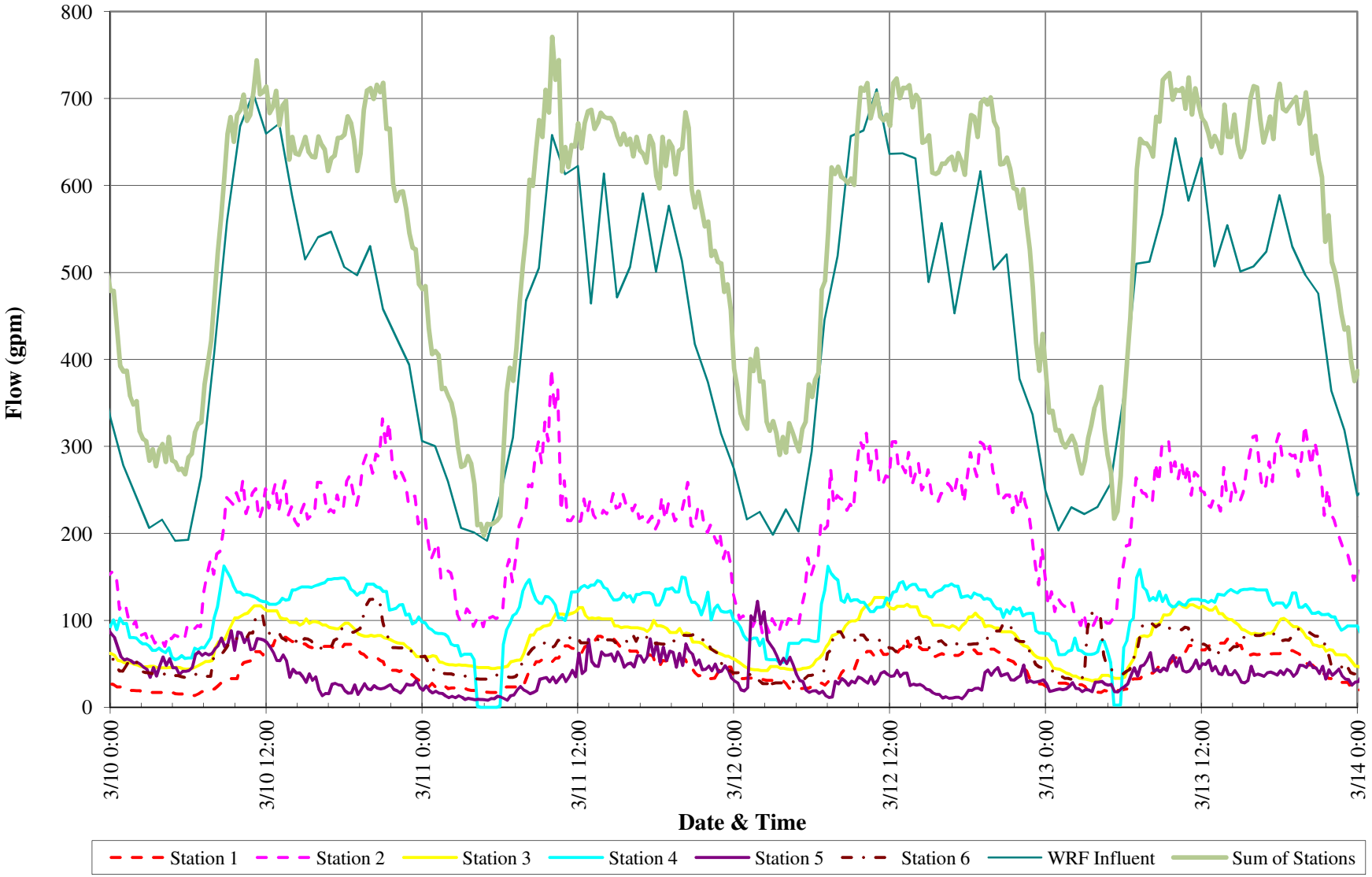
Flow Chart: March 3-7



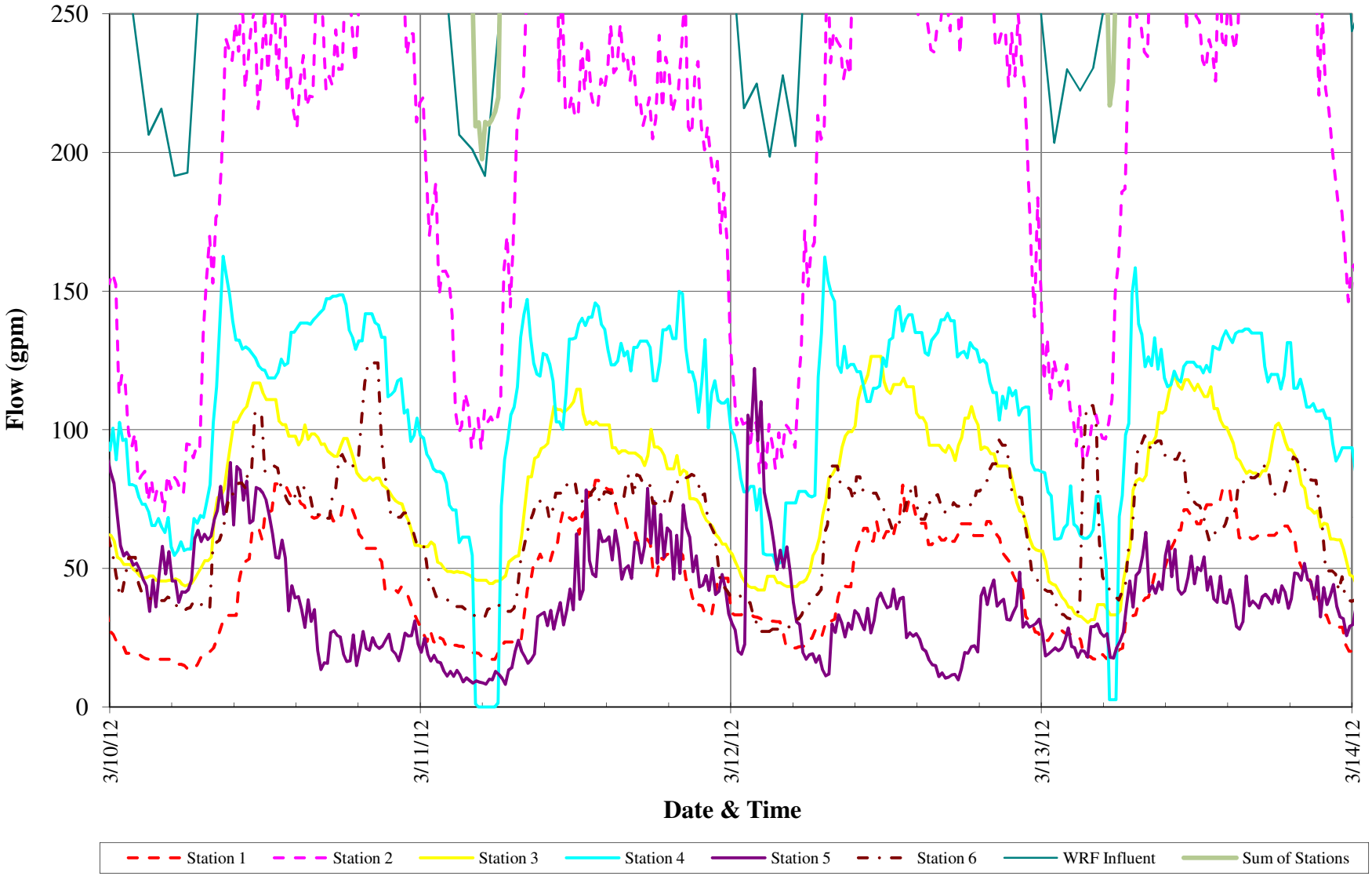
Flow Chart: March 3-7 (Zoom)



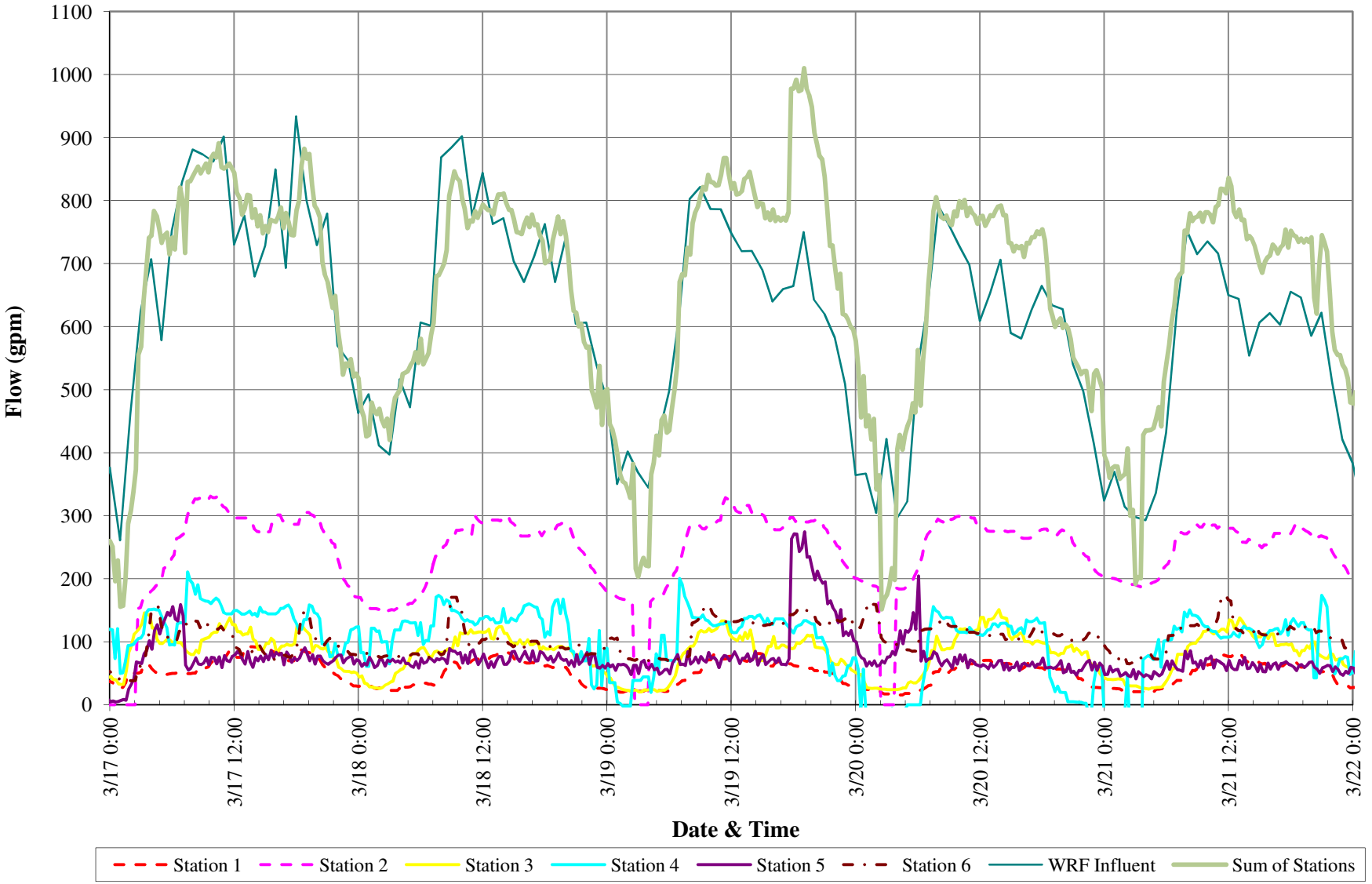
Flow Chart: March 10-14



Flow Chart: March 10-14 (Zoom)



Flow Chart: March 17 -22

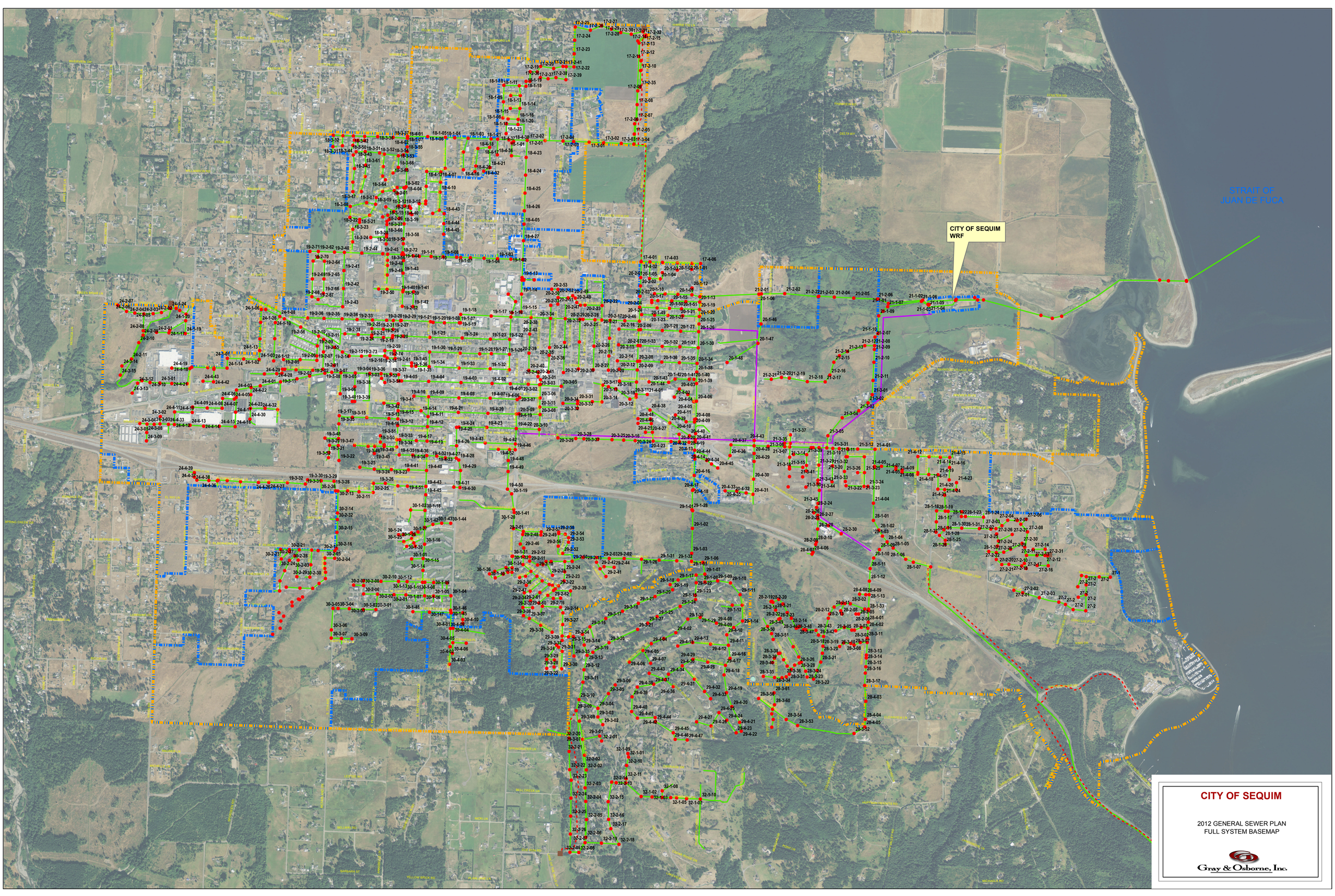


Flow Chart: March 17-22 (Zoom)



APPENDIX H

FULL CITY BASE MAP



CITY OF SEQUIM

2012 GENERAL SEWER PLAN
FULL SYSTEM BASEMAP

Gray & Osborne, Inc.

APPENDIX I

SEQUIM MUNICIPAL CODE

Division II. Sewer System

Chapter 13.28
GENERAL PROVISIONS

Sections:

13.28.010 Purpose.
13.28.020 Intent.
13.28.030 Severability.
13.28.040 Minimum standards.

13.28.010 Purpose.

Whereas it is a necessary sanitary measure in order to protect the health and welfare of the people of the city, that all premises where there is a sewerage disposal be connected with the sewerage disposal system, the ordinance codified in this division shall so far as it affects public health and sanitation be and is declared to be an exercise of the police power of the city. (Ord. 116 § 11, 1936)

13.28.020 Intent.

The ordinance codified in this division is declared to be an exercise of the police power of the state and of the city to promote the public health, safety and welfare, and its provisions shall be liberally construed for the accomplishment of that purpose. (Ord. 270 § 1, 1973)

13.28.030 Severability.

If any section of this division is adjudged to be invalid, such adjudication shall not affect the validity of the remaining portions. (Ord. 270 § 39, 1973)

13.28.040 Minimum standards.

The requirements of this division are declared to be minimum standards and shall not be construed to prevent the enforcement of more stringent standards imposed by other ordinances, or by or under the authority of state law. (Ord. 270 § 40, 1973)

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Chapter 13.32
DEFINITIONS AND STANDARDS

Sections:

13.32.010 Definitions.
13.32.020 Standards.

13.32.010 Definitions.

Words and phrases used in this section, unless the same are contrary or inconsistent with the context, shall mean as follows:

1. “City engineer” includes the consulting engineer acting as city engineer and his employees or the utility superintendent of the city or the employees of that department, authorized to have jurisdiction in the area under consideration.

2. “Comprehensive plan” means plans which are large in scope and intended to provide for the ultimate development of the drainage basins served by the sewers, as determined by the city engineer at the time the plan was proposed.

3. “Cover” means the depth of material between the top of the sewer pipe or drain and the finished grade immediately above it.

4. “Director” means the director of the county public health department or his employees.

5. “Downspout” means a pipe which conducts water from a roof of a building.

6. “Footing drain” means an open joint or perforated pipe located near the foundation of a building, intended to intercept and carry underground storm or drainage water.

7. “Garbage” means putrescible waste from the preparation, cooking and dispensing of food, and from the handling, storage and sale of produce.

8. “Properly shredded garbage” means garbage that has been shredded to such a degree that it will be carried or suspended freely under flow conditions normally prevailing in public sewers, with no particle larger than three-eighths of an inch in any dimension.

9. “Industrial waste” means a liquid, solid or gaseous substance, or combination thereof, resulting from any process of industry, manufacturing, food processing, business, trade or research, including the development, recovering or processing of natural resources and including garbage, but distinguished from sanitary sewage or storm drainage.

10. “Licensed side sewer contractor” means a person approved by the city engineer and licensed by the city to do work incidental to the construction or repair of side sewers.

11. “Natural outlet” means a watercourse, pond, lake, sound, stream, river, ditch or other body of surface water.

12. “pH” means the logarithm of the reciprocal of the weight of hydrogen ions in grams per liter of solution.

13. “Permit card” means a card issued in conjunction with a permit, or a carbon copy of the permit which shall be posted on the premises of the work being accomplished.

14. “Person” means any individual, company, partnership, corporation, association, society or group and the singular term shall include the plural.

15. “Inside planting strip” means that portion of the street area lying between a public sidewalk location and the property line or street margin.

16. “Outside planting strip” means that portion of the street area lying between a public sidewalk location and the curb location.

17. “Sanitary plumbing outlet” means a plumbing outlet from a structure which carries the wastewater from sanitary facilities and plumbing fixtures, and which does not intentionally carry stormwater or unpolluted water.

18. “Storm plumbing outlet” means a plumbing outlet from a building or structure which carries surface water or unpolluted water.

19. “Pretreatment” means the treatment of effluent from a sanitary plumbing outlet or of industrial waste prior to its introduction into a combined sewer, storm drain, sanitary sewer or natural outlet, to the extent required by the city engineer.

20. “Public place,” “public area” or “street area” means any space dedicated to or acquired by the city for the use of the general public.

21. “Public sewer system” means the sewer or storm drainage facilities owned and maintained by the city.

22. “Sewage treatment plant” means an arrangement of devices, structures and equipment for treating wastewater.

23. “Sewage” means waste discharged from sanitary plumbing outlets of buildings and other polluted water.

24. “Combined sewer” means a sewer which carries surface runoff water, polluted water, unpolluted water, industrial waste, effluent from storm plumbing outlets, effluent from sanitary plumbing outlets, and water from foundation drains.

25. “Sanitary sewer” means a sewer which carries wastewater and does not intentionally carry stormwater or unpolluted water.

26. “Side sewer” means a storm or sanitary sewer pipe leading from a plumbing outlet, drain or other facilities to the public sewer system.

27. “Storm drain” means a public or private drain which carries storm and surface waters or drainage, effluent from storm plumbing outlets, and other unpolluted water.

28. “Sidewalk” means the walkway in a public area lying parallel to or generally parallel to the roadway. If the walkway is not yet paved, then all measurements shall be based upon a location and elevation determined by the city engineer.

29. “Suspended solids” means solids that either float on the surface of or are in suspension in water, sewage or other liquids, and which are removable by filtering the liquid, and includes matter which, upon dilution with water or sewage, results in the formation of suspended solids.

30. “Unpolluted water” means water in its natural state, or water which, after use for any purpose, is not substantially changed as to chemical or biochemical qualities. The director or the city engineer may determine which water is unpolluted water.

31. “Wastewater” is a comprehensive term including industrial waste, storm drainage and sewage.

32. “Watercourse” means a channel in which a natural flow of water occurs or has occurred either continuously or intermittently. (Ord. 270 § 2, 1973)

13.32.020 Standards.

Measurements, tests and analyses of the characteristics of waters and waste to which reference is made in this division shall be determined in accordance with the standards prescribed by the latest revision of “Standard Methods for the Examination of Water and Sewage.” (Ord. 270 § 32, 1973)

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Chapter 13.36
ADMINISTRATION AND ENFORCEMENT

Sections:

13.36.010 Office of sewer inspector created – Duties.
13.36.020 Inspection of work.
13.36.030 Filling of trenches.
13.36.040 Right of entry for inspection and observation.
13.36.050 Promulgation of additional rules and regulations.
13.36.060 Posting notice of violating condition.
13.36.070 Unlawful removal of notices.
13.36.080 Violators liable for city expenses.
13.36.090 Violation – Penalty.

13.36.010 Office of sewer inspector created – Duties.
There is created the office of sewer inspector and this office shall be held by the water superintendent of the city. The sewer inspector shall have control, management and supervision of the sewerage and refuse disposal system under the direction of the council. (Ord. 2001-014 § 2; Ord. 119 § 1, 1937; Ord. 116 § 2, 1937)

13.36.020 Inspection of work.
A. Any person performing any work pursuant to the provisions of this division shall notify the city engineer when the work will be ready for inspection, and shall specify in such notification the location of the premises by address and the file number of the permit.

B. On any call for inspection 48 hours' notice plus Saturday, Sunday and holidays may be required by the city engineer.

C. If the city engineer finds the work performed or materials used not in accordance with this division and rules and regulations and the city "Standard Plans and Specifications" for side sewer construction, he shall notify the person doing the work and the owner or occupant of the premises by posting a notice on or near the permit card. Such posted notice shall be all the notice that is required to be given of the defects in the work or the materials found in such inspection.

D. The inspection shall include a test conducted by the contractor and witnessed by the city engineer, to determine that the side sewer is of tight construction and does not allow infiltration or exfiltration of water. Specifications for such a test shall be included in the rules and regulations referred to in SMC 13.36.050. If the city engineer finds that the work and materials used are in accord with this section and the side sewer tests satisfactory, he shall approve the same. Upon such approval the trench or sewer within the street area shall be filled or covered in such a manner that no significant settlement shall occur for a period of one year. During the time the filled trench or sewer may be inspected by the city engineer who may order its refilling if at any time he finds that significant settlement has occurred, or that because of defective workmanship or material used, the work is otherwise unsatisfactory.

E. If the permittee is a licensed side sewer contractor, either the contractor or a competent representative shall be on the premises, whenever so directed to meet the inspector. A property owner shall also meet the inspector at a mutually convenient time during regular hours of business when requested. (Ord. 270 § 13, 1973)

13.36.030 Filling of trenches.
No trench shall be filled nor any sewer or drain covered until the work has been inspected and approved by the city engineer, and his approval noted on the card posted on the job site. (Ord. 270 § 14, 1973)

13.36.040 Right of entry for inspection and observation.
The city engineer or other city official or employees of the city, bearing proper credentials and identification, may with the consent of the occupant or with the consent of the owner of unoccupied premises or pursuant to a lawfully issued warrant, enter upon any and all premises at all reasonable times for the purpose of inspection, observation, measurement, sampling and testing of sewers and sewage waste in accordance with the provisions of the ordinance codified in this division. (Ord. 270 § 34, 1973)

13.36.050 Promulgation of additional rules and regulations.
The city engineer may make rules and regulations and amend the same from time to time, not inconsistent with the provisions of this division, which he shall deem necessary and convenient to carry out the provisions of this division. (Ord. 270 § 35, 1973)

13.36.060 Posting notice of violating condition.
The director of public health or the city engineer is authorized to post notice on private property at or abutting the scene of any violation of this chapter, calling for the terms of this division to be complied with, and the notice may require the work to cease if necessary. (Ord. 270 § 37, 1973)

13.36.070 Unlawful removal of notices.
It is unlawful for anyone to remove, mutilate, destroy or conceal any notice issued or posted by the director of public health or the city engineer pursuant to the provisions of this division. (Ord. 270 § 38, 1973)

13.36.080 Violators liable for city expenses.
Whoever violates any of the provisions of this division shall, in addition to any penalties provided for such violation, be liable for any expense, loss or damage occasioned thereby to the city. (Ord. 270 § 28, 1973)

13.36.090 Violation – Penalty.
Violation of or failure to comply with the provisions of this division shall subject the offender to a fine of $300.00 or imprisonment for 90 days or both; and each day that any violations or failure to comply exists shall constitute a separate offense. (Ord. 270 § 36, 1973)

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Chapter 13.40
SEWER CONNECTION REQUIRED

Sections:

13.40.010 Connection required.
13.40.020 Notice of requirement to connect.
13.40.030 Extension of time to connect.

13.40.010 Connection required.

A. Except as otherwise provided in SMC 13.40.030, the owner or occupant of any lands, premises or habitable structures shall connect such lands and all buildings, habitable structures, ditches, watercourses and plumbing outlets located thereon with the nearest accessible sanitary sewer, combined sewer system or storm drain, whenever such a sewer or drain is located within 200 feet of the closest point of the building site or premises to be served, as measured along any public place or any easement granted for sewer purposes. The city engineer shall determine when the sanitary sewer, combined sewer or storm drain is accessible. This requirement shall be based upon the following conditions:

1. Sanitary plumbing outlets must be connected to combined or sanitary sewers.

2. Residences, multiple residences, churches, schools, hotels, motels, industrial and commercial buildings, planned developments, hospitals and all similar installations and appurtenances thereto; storm plumbing outlets, downspouts, parking lot drainage, footing drains, and unpolluted water must be connected to any storm drain existing on the same side of the centerline of the abutting street and within 60 feet of a side property line. In the event a natural outlet is available abutting the property, it may be used for stormwater disposal. In the event neither of the two above outlets are available, stormwater may be disposed of in dry wells or by draining the water to the street gutter, but stormwater shall not be directed over the surface of a public sidewalk or walkway.

3. Residences, multiple residences, churches, schools, hotels, motels, industrial and commercial buildings, planned developments, hospitals and all similar installations or appurtenances thereto which are being connected to a combined sewer when there is no accessible storm drain: downspouts, storm plumbing outlets, parking lot drainage, unpolluted water and footing drains must be carried in a side sewer pipe separate from the sanitary side sewer pipe to the property line, as designated by the city engineer, and shall be joined with the sanitary side sewer at that point and then connected to the combined sewer; provided, that the city engineer may permit or require storm drainage to discharge upon the surface of a public place or into a natural outlet or dry wells, even though a combined sewer is accessible, when it is planned to provide a storm relief sewer in the vicinity of said combined sewer. The storm side sewer pipe shall be laid as shallow as possible with no more than a four-foot depth beneath the curb elevation, whenever possible. Footing drains are designated as stormwater drains and shall not be connected to a sanitary sewer.

B. The city engineer may prescribe the manner in which connections shall be made, and require plans to be submitted for his approval prior to the issuance of a permit or the installation of any pipe. (Ord. 2001-015 § 1; Ord. 270 § 3, 1973)

13.40.020 Notice of requirement to connect.

Whenever any land, buildings, or premises are required to be connected with the public sewer system as provided in SMC 13.40.010, the director, upon notice from the city engineer that a connection is accessible, shall serve upon the owner, agent, lessee, or occupant of said lands, buildings, premises or

habitable structures, a notice in writing specifying the time within which such connection must be made, which time shall not be more than 60 days from the date of delivery of such notice.

Except as otherwise provided in SMC 13.40.030, if such owner, agent, lessee or occupant shall fail, neglect or refuse to connect said land, buildings, premises, or habitable structures to the public sewer system within the time specified, the director shall notify the city engineer, whereupon the city engineer may make such connection and the cost plus 15 percent thereof shall be charged to the owner, agent, lessee, or occupant and a bill showing the amount thereof mailed or delivered to him, or posted upon the premises, whereupon the amount shall immediately be paid to the finance department. (Ord. 2001-015 § 2; Ord. 270 § 4, 1973)

13.40.030 Extension of time to connect.

A. Any person required to connect pursuant to SMC 13.40.010 may request an extension of time to comply with the requirements to connect. Such request must be made in writing to the city manager or his designee within 180 days from the date that the property becomes required to connect, or within 20 days of the date of notice to connect is mailed to responsible party.

B. The city manager, or his designee, shall review all requests for time extensions requested under this chapter and issue a written approval or denial within a reasonable time.

C. Any request denied by the city manager, or his designee, may be appealed to the city council. Such appeal must be in writing and filed with the city clerk within 10 days of the date the city manager denied the request. Appeals shall be heard by the city council at a regular meeting as soon as practicable after receipt of such appeal. The decision of the city council shall be final.

D. Requests for time extensions may be made in cases where newer septic systems have been installed and are working properly, where terrain and/or location of buildings make it impractical to connect, where connection places an unacceptable financial hardship on the responsible party, or other special circumstances claimed by the responsible party. Each request for a time extension shall be evaluated independently as to special circumstances outlined by the responsible party.

E. Owners of existing septic systems will not be required to connect until 10 years from the date of installation of their existing systems or for at least two years from the date of notice of requirement to connect, whichever is greater. (For example, a three-year-old system would be granted an extension of seven years; a nine-year-old system would be granted an extension of two years.)

F. No time extension shall be granted, and/or any approved time extension shall be immediately revoked, when conditions exist that are a violation of any health, building or safety code or rule. When, in the opinion of the city manager or his designee, conditions exist that require immediate remediation to comply with acceptable health or safety conditions, the responsible party shall be notified and shall be required to connect within 20 days of the date of such notice.

G. All extension agreements shall be recorded with the county recorder as a condition of the granting of the extension. Such extensions shall continue in effect for new property owners during the term of the agreement.

H. Nothing in this chapter shall in any way alter any property owner's obligation to pay latecomer charges pursuant to any latecomer agreement and a waiver or extension of time to hook up shall not extend or alter the latecomer obligation. (Ord. 2001-015 § 3)

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Chapter 13.44
SEWER CONNECTION PERMITS

Sections:

13.44.010 Unlawful to connect without permit.
13.44.020 Application for permit.
13.44.030 Work to conform to permit specifications – Posting.
13.44.040 Police authority.
13.44.050 Temporary connection permits.
13.44.060 Validity of permit.
13.44.070 Fees.

13.44.010 Unlawful to connect without permit.

It is unlawful to make any connection to any public or private sewer system, drain or natural outlet without complying with all of the provisions of the ordinance codified in this division and all other ordinances in relation thereto, and without having a permit to do so from the city engineer. A licensed side sewer contractor or a property owner or his agent shall not break, alter or tamper with any public sewer system or its appurtenances except to make a connection to an existing wye or tee under permit from the city engineer. (Ord. 270 § 6, 1973)

13.44.020 Application for permit.

A. Application for the permit required by this chapter shall be filed with the city engineer stating the following:

1. The name of the property owner;
2. The address of the property to be served;
3. The property owner's mailing address;
4. The side sewer contractor's name;
5. The legal description of the property to be served;
6. The dimensions of the buildings to be served, including insets or ells;
7. The location of buildings on the property;
8. The purpose for which the building is to be used;
9. The full course of the proposed side sewer.

B. The city engineer may change or modify the application and designate the manner and place where the side sewer shall connect to the public sewer system, may specify the material, size and grade of the side sewer and determine whether or not a permit shall be granted. The city engineer may require the applicant to furnish plans prepared and stamped by a professional engineer, licensed in the state. The city engineer shall keep such records as he deems necessary of all side sewer permits and inspection reports. (Ord. 270 § 7, 1973)

13.44.030 Work to conform to permit specifications – Posting.

After approval of the application and issuance of the permit, it is unlawful to alter the permit or to do any work other than that provided for in the permit. If the permittee wishes to perform additional work, the city engineer may require that he secure an additional permit. One copy of the permit, or an additional card bearing the permit number, according to directions of the city engineer, shall be posted

upon the work site at a place readily and safely accessible to the city engineer, and in a conspicuous place near the work being performed under the permit. (Ord. 270 § 8, 1973)

13.44.040 Police authority.
It is the duty of any police officer and of the director, finding any person breaking ground for the purpose of making connection with a public or private sewer system, to ascertain if such person has a permit therefor and if not to immediately report the fact to the city engineer. (Ord. 270 § 9, 1973)

13.44.050 Temporary connection permits.
The city engineer may, upon receiving an application containing such information as is required by him, issue a permit for a temporary connection to a combined sewer, sanitary sewer, side sewer, storm drain or natural outlet, and may include as a condition to the issuance of a permit a requirement to connect to another combined sewer, sanitary sewer, side sewer, storm drain or natural outlet at some later date. The permit may be revoked by the city engineer at any time upon 60 days' notice posted upon the premises and directed to the owner or occupant of the premises; and in the event the side sewer or drains are not disconnected or reconstructed as required at the expiration of the 60 days the city engineer may disconnect the same and reconstruct it as he deems necessary, and charge the cost plus 15 percent thereof to the owner or occupant. Such cost plus 15 percent shall be immediately payable to the city treasurer following a written notice of the amount thereof given to the owner or occupant or posted on the premises. Such temporary permit shall be issued only upon the applicant recording with the county auditor an acceptable instrument agreeing to reconstruct the side sewer if required to do so, and to save the city harmless from all damage resulting to the city by reason of such temporary connection or disconnection, and exhibiting to the city engineer the recording number of the instrument. (Ord. 270 § 10, 1973)

13.44.060 Validity of permit.
A permit issued under this chapter shall not be valid for a period of more than 90 days unless extended or renewed by the city engineer prior to the date of expiration. (Ord. 270 § 11, 1973)

13.44.070 Fees.
Fees for side sewer permits shall be as prescribed by separate ordinance. (Ord. 270 § 12, 1973)

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Chapter 13.48
PUBLIC SEWER USE REGULATIONS

Sections:

13.48.010 Purpose.
13.48.020 Interceptors or grease traps required.
13.48.030 Interceptor specifications.
13.48.040 New construction.
13.48.050 Installation on existing premises.
13.48.060 Inspection.
13.48.070 Discharges of certain materials prohibited.
13.48.080 Unlawful to damage.
13.48.090 Penalty.

13.48.010 Purpose.

It is the purpose of this chapter to provide provisions to eliminate the discharge of certain harmful and potentially harmful materials into the city's domestic sewage treatment system. This chapter is to be construed under the police powers granted the city and is for the protection and general welfare of the citizens of the city and the surrounding areas. (Ord. 605 § 1, 1991)

13.48.020 Interceptors or grease traps required.

A. Definitions.

1. "Interceptor" means a remotely located interceptor of at least 750 gallons capacity to serve one or more fixtures;

2. "Grease trap" means a device designed to retain grease from one to a maximum of four fixtures.

B. Applicability. Grease, oil, and sand interceptors or grease traps shall be provided on the premises of all restaurants, bakeries, nursing homes, school kitchens, or any other facilities that provide more than 10 meals per day, and shall be required on other facilities when, in the opinion of the director of the public works department, such interceptors are necessary for proper handling of liquid wastes containing grease in excessive amounts, or any flammable wastes, sand and other ingredients potentially harmful to the efficient operation of the city sewage treatment system.

C. Exceptions. Interceptors or grease traps shall not be required for private living quarters or for multifamily dwelling units. (Ord. 605 § 2, 1991)

13.48.030 Interceptor specifications.

A. All such interceptors or grease traps shall be of a type and capacity as shall be approved by the director of public works, and the interceptors shall be located so as to be readily and easily accessible for cleaning and inspection. It shall be the duty of the owner of the private property on which the interceptors or traps are located to maintain the same in a satisfactory manner and in continuously efficient operation at all times. All costs of maintenance, and reasonable costs of inspection by city personnel to insure compliance with the provisions of this code shall be borne by the owners of the private property upon which the units are located.

B. Grease and oil interceptors and traps shall be constructed of impervious material capable of withstanding abrupt and extreme changes in temperature. Grease and oil interceptors or traps shall be watertight, and shall be equipped with easily removable covers, which, when bolted in place, shall be gastight and watertight.

C. All grease traps and interceptors shall be constructed and installed, at a minimum, to comply with the uniform plumbing code specifications in effect at the time of installation. (Ord. 605 § 2, 1991)

13.48.040 New construction.
Grease, oil, and sand interceptors or traps shall be required on all new construction as a condition of building permit issuance. (Ord. 605 § 2, 1991)

13.48.050 Installation on existing premises.
A. Grease, oil, and sand interceptors or traps shall be required in existing restaurants, bakeries, nursing homes, school kitchens, or any other facility providing more than 10 meals per day, or such facilities, as in the opinion of the director of the public works department, require such interceptors for the proper handling of liquid wastes containing grease in excessive amounts, or any flammable wastes, sand, or other ingredients potentially harmful to the efficient operation of the city sanitary sewage treatment system, not later than December, 31, 1996.

B. Any facility for which the interceptors are required which is not in compliance by the first day of January, 1997, shall be charged an additional 10 percent surcharge on the monthly sewer bill until compliance. Thereafter, the surcharge shall increase by 10 percent per year, effective the first day of January of each year, until such time as the premises are in compliance with the requirements of this chapter. (For example, if a premises is out of compliance in 1997, there will be a 10 percent surcharge; if out of compliance in 1998, a 20 percent surcharge; if out of compliance in 1999, a 30 percent surcharge, etc.).

C. When satisfactory proof is presented to the director of the public works department, or his or her designee, that facilities or practices on existing premises do not pose a significant threat of discharge to the city domestic sewage treatment of sand, grease, or other prohibited materials, the surcharge to be levied by this section may be waived. All costs associated with tests and/or monitoring required to apply for such waiver shall be borne by the applicant.

D. Nothing in this section shall be construed so as to allow any waiver of building code or plumbing code grease trap/interceptor requirements imposed upon remodeling of existing premises or upon new construction and/or installations.

E. Decisions of the department of public works with respect to this section may be appealed to the city council. (Ord. 605 § 2, 1991)

13.48.060 Inspection.
A. The director of public works or any other duly authorized employees of the city bearing proper credentials and identification shall be permitted to enter at reasonable hours upon all premises for the purposes of inspection, observation, measurement, sampling, and testing of interceptors or traps.

B. Should the city find an interceptor to be out of compliance with the provisions of this chapter, the costs of the inspection, including both time, labor and/or any materials and/or services rendered by the city in connection with bringing the interceptor or trap into compliance, shall be borne by the owner of the premises upon which the interceptor or trap is located.

C. The owner of any interceptor or trap or premises which is not in compliance shall be given notice by the city and shall be allocated 48 hours from the date of the notice to bring the interceptor or trap into compliance. If compliance is not forthcoming, the city shall have the right to correct the deficiency and to bring the interceptor or trap into compliance, all at the expense of the owner of the premises.

D. Any charges levied by the city in accordance with this section shall constitute a lien against the premises charged, which lien may be foreclosed by the city in the manner in which materialmen liens are foreclosed pursuant to state statute. (Ord. 605 § 2, 1991)

13.48.070 Discharges of certain materials prohibited.

The discharge into any sanitary sewer of the city by direct or indirect means of any of the following is hereby prohibited:

A. Subsoil foundation drains;

B. Footing drains;

C. Window well drains;

D. Door well drains;

E. Yard drains;

F. Unroofed basement floor drains;

G. Overflows from unpolluted water storage facilities;

H. Clear water from refrigeration, reverse-cycle heat pumps and cooling or air conditioning equipment installed after the effective date of this chapter, except for periodic draining and cleaning of such systems;

I. Roof drains or downspouts from areas exposed to rainfall or other precipitation;

J. Surface or underground waters from any source other than the municipal domestic water system;

K. Any liquid or vapor having a temperature higher than 140 degrees Fahrenheit (60 degrees centigrade);

L. Any waste that contains more than 150 parts per million by weight of fat, oil or grease;

M. Any gasoline, benzene, naphtha, oil, or other flammable or explosive liquid, solid or gas;

N. Any sand, mud, straw, hair, shaving, metal, glass, rags, feathers, tar, plastic, wood, paunch manure, or any other solid or substance capable of causing obstruction to the flow in sewers or improper operation of the sewage works;

O. Any waste having a pH lower than 5.5 or higher than 8.5 or having any other corrosive property capable of causing damage or hazard to the structures, equipment, or personnel of the city;

P. Any waste containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process;

Q. Any waste containing suspended solids of such character and quantity that unusual attention or expense is required to handle such materials in the public sewer system or at the sewage treatment plant;

R. Any obnoxious or malodorous gas or substance capable of creating a public nuisance;

S. Materials defined as dangerous waste under Chapter 173-303 WAC as now enacted or hereafter amended. (Ord. 605 § 3, 1991; Ord. 270 § 29, 1973)

13.48.080 Unlawful to damage.
No person shall maliciously, wilfully or negligently break, damage, destroy, uncover, deface or tamper with any structure, appurtenance, or equipment which is part of the sewage treatment system of the city. Interceptors installed pursuant to this chapter shall be deemed, for purposes of this section, to be part of the sewage treatment system of the city. (Ord. 605 § 4, 1991)

13.48.090 Penalty.
Violation of or failure to comply with the provisions of this chapter shall subject the offender to a fine of

not more than $1,000 or imprisonment for 90 days, or both; and each day that any violation or failure to comply exists shall constitute a separate offense. (Ord. 605 § 5, 1991)

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Chapter 13.52
SEWER MAINTENANCE REGULATIONS

Sections:

13.52.010 Notice of inoperative or inadequate condition.
13.52.020 Use of existing side sewers.
13.52.030 Backwater sewage valves.
13.52.040 Unlawful to plant certain vegetation.

13.52.010 Notice of inoperative or inadequate condition.
Where it is determined by the director or the city engineer that a side sewer, drain, ditch or natural watercourse is obstructed, broken, inoperative or inadequate and is a menace to health, or is liable to cause damage to public or private property, the director shall give notice to the owner, agent or occupant of the property in which such condition exists. If the owner, agent or occupant refuses to reconstruct, relay, reconnect, repair or remove the obstruction of the side sewer, drain, ditch or natural watercourse within the time limit specified in such notice, the director shall so notify the city engineer and the city engineer may perform such work as may be necessary to comply with this section. The cost of such work done by the city engineer shall be charged to the property owner or occupant and shall become immediately payable to the city treasurer upon written notice of such amount being given to the property owner or occupant or posted upon the premises. (Ord. 270 § 17, 1973)

13.52.020 Use of existing side sewers.
Where a new or converted building or new installation replaces an old one, the use of an existing side sewer will be permitted when approved by the city engineer as conforming to all requirements of this division. (Ord. 270 § 19, 1973)

13.52.030 Backwater sewage valves.
A. In any building, structure or premises in which the plumbing outlets or other drainage facilities are too low in elevation as determined by the city engineer to permit gravity flow to the public sewer system, wastewater shall be lifted mechanically and discharged into the public sewer.

B. Whenever a situation exists involving the danger of backups of sewage or drainage from the public sewer system, the city engineer may prescribe a minimum elevation at which the plumbing outlet or side sewer may be discharged to the public sewer system. Wastewater from drains or side sewers below such minimum elevations shall be lifted mechanically to an elevation determined by the city engineer, or if approved by the city engineer, a backwater sewage valve may be installed provided the property owner shall record with the Clallam County auditor an instrument as described in SMC 13.60.060. The effective operation of the backwater sewage valve shall be the responsibility of the owner of the sewer or drain. (Ord. 270 § 20, 1973)

13.52.040 Unlawful to plant certain vegetation.
It is unlawful to plant within 30 feet of any sanitary sewer, side sewer or storm drain any willow, poplar, cottonwood, soft maple, gum tree or any other tree or shrub whose roots are likely to enter and obstruct the flow of the sewers. (Ord. 270 § 33, 1973)

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Chapter 13.56
REPAIR AND CONSTRUCTION REGULATIONS

Sections:

13.56.010 Trenches and excavations – Safety standards.
13.56.020 City may complete unfinished work.
13.56.030 Owner or contractor liable for city completion costs.

13.56.010 Trenches and excavations – Safety standards.

A. All trenches or excavations within four feet of any public place and all obstructions or encroachments upon a public place shall be barricaded as required for public safety. It is unlawful to fail to maintain the lateral support of any public place while constructing, altering or repairing any side sewer or storm drain. All trenches or excavations shall be covered during hours of inactivity of work on the side sewer or storm drain.

B. Barricades posted upon arterial streets or highways must conform to the standards established by the Washington State Highway Commission, Department of Highways, and/or such addenda to such standards as the city may establish.

C. All work performed under the authority of this section shall be accomplished within the minimum safety standards prescribed by the Washington State Department of Labor and Industries, Division of Safety. Evidence of failure to comply with the requirements of the Department of Labor and Industries shall be sufficient reason for the director or the city engineer to order stoppage of work until the required safety precautions are established on the job. (Ord. 270 § 14, 1973)

13.56.020 City may complete unfinished work.

Work within the limits of any public area shall be prosecuted to completion with due diligence, and if any excavation is left open, whether covered or uncovered, beyond a time reasonably necessary to fill the same, the city engineer may cause the same to be backfilled and the public area restored forthwith. Cost incurred by the city engineer in such work shall be charged to the side sewer contractor in charge of such work and shall be immediately payable to the city treasurer by the contractor upon written notification of the amount thereof given to the contractor or posted at the location. (Ord. 270 § 15, 1973)

13.56.030 Owner or contractor liable for city completion costs.

If any work performed on a side sewer is not completed in accordance with the provisions of this division and the plans and specifications as approved by the city engineer, and if the contractor or person doing the work refuses to properly construct and complete such work, notice of such failure or refusal shall be posted on the premises where the work is being done, and the city engineer may cause the work to be completed and the sewer connected in the proper manner, and the cost of such work and any materials necessary therefor shall be charged to the owner or contractor and be payable by the owner or contractor immediately upon the city engineer giving written notice of the amount thereof or posting a notice thereof on the premises. (Ord. 270 § 16, 1973)

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Chapter 13.60
SIDE SEWER REGULATIONS

Sections:

13.60.010 Side sewer contractor requirements.
13.60.020 Costs to be borne by owner.
13.60.030 Side sewers – Minimum cover requirements.
13.60.040 Side sewers constructed at more than 100 percent grade.
13.60.050 Permit required.
13.60.060 Variances to standards.
13.60.070 Materials and standards.
13.60.080 Restoration to original condition.
13.60.090 Manholes required.

13.60.010 Side sewer contractor requirements.

A. It is unlawful for anyone to construct, reconstruct or repair any side sewer in a public place unless he is a licensed side sewer contractor holding a current license under the city license code, or is an employee of the city engineer performing assigned duties.

B. No side sewer contractor's license shall be issued until the applicant has appeared before the city engineer and has been examined by him, by oral and/or written examination as to the applicant's knowledge of side sewer construction work and the ordinances of the city regarding side sewers. The city engineer shall deny the approval of any applicant whom he finds does not possess adequate experience or knowledge. Applicants for such examination by the city engineer shall pay to the city treasurer the sum of $15.00 before taking the examination, and the receipt number shall be noted upon the examination and filed in the city engineer's office.

C. Each side sewer contractor shall file with the city engineer a certificate of insurance from an insurance company licensed to do business in the state that the contractor carries public liability and property damage insurance in the sum of at least $50,000 for any one person killed or injured in any one accident or occurrence, and $100,000 for more than one person killed or injured in any one accident or occurrence, and at least $25,000 for all damage arising out of injury to or destruction of property. Such policy shall contain an endorsement naming the city as an additional insured and providing for not less than 10 days' notice to the city of any change, cancellation or expiration of such policy.

D. A licensed side sewer contractor must secure his own permits, be responsible for all work accomplished under his permits and connect all plumbing outlets or drainage facilities in a complete manner, as required by the city engineer. A property owner or his employee may construct, reconstruct or repair a side sewer on private property. (Ord. 270 § 5, 1973)

13.60.020 Costs to be borne by owner.

Costs and expense incidental to the installation, connection and maintenance of a side sewer shall be borne by the owner or occupant of the premises served by the side sewer. (Ord. 270 § 18, 1973)

13.60.030 Side sewers – Minimum cover requirements.

Side sewer shall be laid on not less than two percent nor more than 100 percent grade; shall be not less than 30 inches from any foundation wall of any building, and if there is no foundation wall, not less than 30 inches from the outer lines of any footings, pilings or building supports. Side sewers shall have not less than 60 inches of cover at the curb line, or in a public alley 30 inches of cover at the property line, and 18 inches of cover on the private property. Side sewers laid generally parallel to the curb or curb line shall not have less than 48 inches of cover between the curb or curb line and the sidewalk or

sidewalk line nor less than 30 inches of cover between the sidewalk or sidewalk line and the property line. All cover measurements shall be based on the established grade, or on existing improvements, or shall be determined by the city engineer. (Ord. 270 § 22, 1973)

13.60.040 Side sewers constructed at more than 100 percent grade.

A. If a side sewer is to be constructed at more than 100 percent grade, or with less than the required minimum cover prescribed in this chapter, the city engineer may require special plans for the construction to be submitted for his approval, and he may require the use of cast iron pipe or asbestos-cement pipe or other material before approving the plan of construction. The wall thickness of the pipe to be used, and whether or not it should be encased in concrete or concrete with reinforcing steel shall be determined by the city engineer.

B. Six inches shall be the minimum diameter of pipe for gravity-flow side sewers in street areas.

C. Not more than one building shall be connected to a side sewer except by permission of, and in accordance with, rules and regulations of the city engineer.

D. Any one single-family dwelling shall be connected with not less than four-inch diameter pipe on private property; provided, that where a dual connection of two single-family dwellings, or a multiple dwelling or commercial building with a single-family dwelling is permitted by the city engineer, such connection shall be made with not less than six-inch diameter pipe below the point of dual connection

E. Any multiple dwelling, industrial or commercial building shall be connected with not less than six-inch diameter pipe on private property; provided, with the permission of the city engineer, three or less two-inch downspouts or one motel unit may be connected with four-inch diameter pipe on private property.

F. Cast iron or asbestos-cement pipe shall be used for all side sewers over water mains for a distance of at least five feet from the center of the water main. Side sewer lines must be laid at least one-half foot below and one foot away from all water service lines or one and one-half feet below all water department main water lines, unless cast iron or asbestos-cement pipe is used for the side sewer. (Ord. 270 § 23, 1973)

13.60.050 Permit required.

A. Before a side sewer may be located on a building site other than the site being served by the side sewer, and before the city engineer issues a permit authorizing the laying of such a side sewer, the owner of the side sewer shall secure a written easement from the owner of the building site to be crossed. The easement shall be duly acknowledged, and shall grant the right to occupy the property for side sewer or utility purposes. The easement shall be recorded in the office of the Clallam County Auditor, by the owner of the side sewer, and the recording number exhibited to the city engineer.

B. Where a side sewer is to be connected in a public area to a side sewer which is owned by another and does not involve an easement, written permission for such connection shall be obtained from the owner of such side sewer and shall be filed with the city engineer before a permit authorizing such connection is issued. (Ord. 270 § 24, 1973)

13.60.060 Variances to standards.

If, in the opinion of the city engineer, physical conditions make compliance with the provisions of this division impracticable, the city engineer may issue a permit for installation of a side sewer requiring compliance with the provisions insofar as is reasonably possible, and such permit shall be issued only upon the condition that the property owner shall record with the Clallam County Auditor an instrument acceptable to the city engineer agreeing to save harmless and indemnify the city from any damage or injury resulting from such installation. Such instrument shall be upon a form approved by the city engineer. This section is not intended to be used to allow storm drainage connections to a sanitary sewer. (Ord. 270 § 25, 1973)

13.60.070 Materials and standards.

A. Materials and workmanship in connection with the installation of any side sewer or drain shall be as required by the “Standard Plans and Specifications” of the state chapter of APWA, and modifications specified by the city engineer.

B. Fittings, increasers, traps, etc., shall be of standard manufacture.

C. Changes in line or grade shall be made with wyes or 45-degree bends, or for slight changes in line or grade, by setting each pipe out of line slightly, within the deflection angle allowed by the pipe manufacturer’s specifications, or by using 10-degree, 22-1/2-degree or 30-degree bends supplied by pipe manufacturers.

D. When laying around a 90-degree corner, a wye and 45-degree bend combination shall be used with the end of the wye left as a cleanout.

E. Increasers or wyes shall be used when changing the sizes of pipe. Pipe size may also be changed at a manhole.

F. Grafts on four-inch, six-inch or eight-inch pipe shall not be allowed.

G. Rubber-type gaskets or flexible-joint pipe must be used in side sewers constructed of concrete, or asbestos-cement pipe; cast iron pipe must have flexible joints or caulked lead joints. Copper pipe must have soldered joints.

H. Cast iron fittings must conform to the requirements of the plumbing code of the city as to quality of materials and type of fitting or structure.

I. A bend must not be used adjacent to a tee or wye at the main sewer but may be used at a length of pipe or more away from the main sewer, unless the bend is manufactured as a part of the first length of pipe.

J. Whenever it becomes necessary to disturb pavement in connection with any work authorized under the ordinance codified in this division, the opening shall be not less than three feet square; provided, the city engineer may specify a size of opening and additional cuts to be made when needed to insure a proper backfill.

K. No excavation shall be made in any public area except at the times and in the manner prescribed by the city engineer.

L. Backfill of excavation and tunnels under concrete or asphalt roadway surfacing and the restoration of these surfaces in public areas shall be accomplished by the contractor as directed by the city engineer.

M. Tunnels or excavations under public sidewalks or under driveways in public places may be backfilled by a side sewer contractor; provided, that the material has been approved by the city engineer, and provided it is tamped in place with a mechanical tamper, in layers of not more than 12 inches loose thickness; except that, within two feet of finish grade the loose thickness layers shall not exceed six inches. The density of all such compaction shall be approved by the city engineer. (Ord. 270 § 26, 1973)

13.60.080 Restoration to original condition.

Streets, sidewalks, planting strips and other public areas except as mentioned in SMC 13.60.080, disturbed or altered in the course of any side sewer or drainage work, shall be restored by the licensed sewer contractor to the original surface condition as approved by the city engineer; and in the event of the failure of the contractor to so restore the area the city engineer may make such restoration and charge the cost thereof to the side sewer contractor who shall, upon receiving written notice of the

amount thereof or upon posting of such notice at the area, make immediate payment thereof to the city treasurer. (Ord. 270 § 27, 1973)

13.60.090 Manholes required.

In any property served by a side sewer carrying industrial waste, the owner or the occupant shall install a manhole in the side sewer to facilitate observation, sampling and measurement of the wastes, when required by the city engineer. Such manhole shall be accessible, safely located and shall be constructed and installed in accordance with the plans approved by the city engineer. The manhole shall be installed and maintained by the owner or occupant at his sole expense. (Ord. 270 § 31, 1973)

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Chapter 13.64
STORM DRAINAGE

Sections:

13.64.010 Drainage required.

13.64.010 Drainage required.

Hard-surfaced or graded areas such as parking lots, service station yards and storage yards shall be drained in such a manner as will protect adjacent public and private property from damage and such drainage shall enter the public sewer system or other outlet approved by the city engineer and as required by SMC 13.40.010. Such storm drainage shall not be connected to enter a sanitary sewer. (Ord. 270 § 21, 1973)

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Division III. Rates and Charges for Water and Sewer Service

Chapter 13.68
GENERAL PROVISIONS

Sections:

13.68.010 Purpose.
13.68.020 Interpretation.

13.68.010 Purpose.

It is the purpose of the ordinance codified in this division to set forth the city's schedule of charges pertaining to persons who connect to and use the city water distribution system and the city sewage disposal system. (Ord. 504 § 1, 1986)

13.68.020 Interpretation.

The city council of the city shall have full authority to interpret and apply the provisions of this division and its decision in such cases shall be final. (Ord. 504 § 12, 1986)

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Chapter 13.72
INSTALLATION AND CONNECTION FEES

Sections:

13.72.010 Installation and connection fees.
13.72.020 Sewer general facility charges.
13.72.025 Water general facility charges.
13.72.030 Collection of fees.

13.72.010 Installation and connection fees.

A. From and after the effective date of the ordinance codified in this division no person or firm shall connect to the city water distribution system or sewage disposal system without first paying to the city clerk the sum or sums set forth in this section and without having first obtained a permit from the city therefor.

B. For the purposes of this section, “developer installed services” shall be defined as services installed from the city main to the property line according to the city standards and including the developer’s purchase and placement of all materials, including meter, meter box, locking meter stop, piping, fittings and all related appurtenances, and including roadway replacement and sidewalk removal, if necessary.

C. Water. Service charges for connecting to any city water main shall be as follows:

Meter Size	City Installed Service	Developer Installed Service
3/4 inch	$550.00 plus roadway and sidewalk removal and replacement costs.	$75.00 plus cost of materials and service funded by city.
1 inch	$550.00 plus roadway and sidewalk removal and replacement costs.	$75.00 plus cost of materials and service funded by city.
over 1 inch	Time, material and expenses, including roadway and sidewalk removal and replacement costs.	$75.00 plus cost of materials and service funded by city.

D. Sewer. Service charges for connecting to any city sewer main shall be as follows:

City Installed Service (1)	Developer Installed Service (2)
$550.00 plus roadway and sidewalk removal and replacement costs	$100.00 plus cost of materials and/or service to the city.

(1) Time, material, expenses and costs shall be determined by the city, and shall include an additional 10 percent as overhead.

	City Installed Service (1)	Developer Installed Service (2)

(2) Utility location and inspection fee.

(Ord. 93-012 § 2)

13.72.020 Sewer general facility charges.

From and after the effective date of the amending ordinance codified in this section, there shall be collected from each person, firm or corporation connecting to the sanitary sewer system of the city for property located within the city or within the urban growth area (UGA) the following charges (which shall be in addition to and supplemental to any other connection charges established in this chapter or in any other ordinances of the city). The GFC collected will be the charge in effect when a complete building permit application is filed. GFCs are not payable in advance.

A. For connection to the city sewage disposal system:

	Type of Connection	General Facilities Charge (per unit)
1.	Residential living unit	As established by resolution [one equivalent residential unit, ERU] (includes condominium units, mobile home park units and multifamily units up to five-plex)
2.	Multifamily units (over five units)	[0.7 ERU per unit]
3.	Temporary residential units:	
a.	Motel and hotel rooms, seasonal overnight travel trailer parks and RV parks	[0.3 ERU per unit]
b.	Rest homes, nursing homes, assisted care facilities	[0.6 ERU per unit]
4.	Commercial and industrial units and other units: Based on the following meter size as determined by approved engineering recommendation according to current ANSI/AWWA standard C700. Increases due to fire sprinkler installation may be disregarded in the below calculations; provided, that the increased capacity cannot be used for other than fire sprinklers.	

Meter Size (inches)	ERU
5/8	1
3/4	1.5
1	2.5

1-1/2	5
2	8

Meters sized greater than two inches or any use requiring an industrial pretreatment plan requires an approved engineering analysis of equivalent ERUs.

B. The decision of the city's director of public works as to anticipated sewer usage may be appealed to the board of adjustment upon written notice filed with the city clerk within 21 days of the director's decision. This amendatory section and amended rates shall not affect rates contracted to be collected pursuant to any latecomer agreement.

C. If a project for which a GFC has been paid does not connect to the city sewer system before the building permit expires, a new GFC will be charged based on the difference between the GFC paid and the new GFC in effect on the date when a new complete building permit application is filed. No refund shall be issued if the new GC is lower than the paid GFC.

D. Extensions of service in Sequim's corporate city limits and the urban growth area shall have a priority over extensions outside of Sequim's urban growth area except in the case of risks to public health so certified by the Clallam County health director.

E. Connection to the City Sewage Disposal System for Service of Properties Lying Outside the Corporate Limits but Within the Sequim Urban Growth Area. The city council may, at its sole discretion, extend the city's sewage disposal system to serve property lying outside the corporate city limits but within the UGA. Such UGA extensions shall be made upon such terms and conditions as the council deems appropriate. Such terms and conditions shall, at a minimum, include the following:

1. Owners of the property to be served shall sign and return to the city for recording purposes a declaration of covenant and an irrevocable power of attorney to the city and a commitment to annex and a waiver of all objections to annexation at such time as the extension of the corporate boundaries to include the subject property becomes desirable by the city. Such agreement shall constitute a covenant running with the land to be served.

2. Owners shall pay a monthly collection fee of not less than two times the fee charged to city residents. The council, at its discretion, may increase this amount in situations where the costs of providing service are extraordinary. Such monthly collection fees shall be adjusted at such time as the property is actually annexed into the city.

3. The city shall reserve the right to disconnect service in the event the continued service would subject the city sewage disposal system to unreasonable damage, or unreasonable increased maintenance costs. The city shall reconnect after the risk of unreasonable damage and unreasonable increased maintenance costs no longer exists.

4. The city may require installation of or bonding or no-protest LIDs for streets, curbs, gutters and sidewalks and other terms as part of a preannexation agreement or other agreement with the city, which agreement shall be recorded as a covenant affecting all of the parcels of the owner receiving city services.

5. Owners shall also be bound by the applicable terms of any interlocal agreement between the city and Clallam County concerning land use and utilities in the Sequim urban growth area.

F. Latecomer Applicability. Owners of property connecting laterally to developer- established sewer trunk lines shall be subject to payment of latecomer fees as established by a recorded agreement between the city and the developer/installer.

G. General Facilities Charges for Extensions of City Sewage Service Outside City Limits. General facilities charges for connection to the city sewage disposal system to serve property located outside

the corporate city limits for use for regionally significant residential units, commercial or industrial uses shall be established by the city council at the time of application for service. Where existing contracts, executed prior to the adoption of the Growth Management Act (Chapter 36.70A RCW), provided for sewage service to areas outside of Sequim's city limits, the general facility charges shall be at least two times the general facility charge provided for inside the city limits or as specifically provided by contract. Former SMC code section 13.72.020(F) (as referenced in some contracts and as existing in 1989) is intended to be modified and replaced by this subsection G.

H. Transfer of General Facilities Fees.

1. Persons or entities owning property for which sewer general facilities charges have previously been paid by the owner to the city may transfer the sewer development rights obtained by the general facilities payment to a different location under the following conditions:

a. The buildings which were served by the utilities provided pursuant to the general facilities payments are to be demolished or removed;

b. The general facility charge transfer shall be recorded in favor of the city in the county property records at the property owner's expense.

2. In the event structures are destroyed or demolished on any site, an additional general facilities charge for a replacement structure erected upon the same site, and for which the same number of general facilities charges would be levied as had been previously paid, shall not be required.

3. The amount of general facilities charges which may be transferred shall be calculated based upon the amount actually paid by the owner of the premises at the time of the initial payment of general facilities charges. The funds paid may be transferred and applied to the new location at their face value. If, from the time of the initial payment to the time of the requested transfer, general facilities charges have increased, the transferor shall pay the difference between the general facilities charges paid and general facilities charges which would be levied under the new rate structure.

4. The terms of this section relating to transfer of general facilities charges shall apply to sewer general facilities charges. (Ord. 2013-005 § 1; Ord. 2008-003 § 2; Ord. 2007-001; Ord. 2005-029 § 2; Ord. 2004-002 Exh. A; Ord. 2002-015; Ord. 97-007 § 2)

13.72.025 Water general facility charges.

From and after the effective date of the amending ordinance codified in this section there shall be collected from each person, firm or corporation connecting to the water system of the city for property located within the city or within the urban growth area (UGA) the following charges (which shall be in addition to and supplemental to any other connection charges established in this chapter or in any other ordinances of the city). The GFC collected will be the charge in effect when a complete building permit application is filed. GFCs are payable only upon filing a complete building permit application. GFCs are not payable in advance.

A. For connection to the city water distribution system:

	Type of Connection	General Facilities Charge (per unit)
1.	Residential living unit	As established by resolution [one equivalent residential unit, ERU]

		(includes condominium units, mobile home park units and multifamily units up to five-plex)
2.	Multifamily units (over five units)	[0.7 ERU per unit]
3.	Temporary residential units:	
a.	Motel and hotel rooms, seasonal overnight travel trailer parks, and RV parks	[0.3 ERU per unit]
b.	Rest homes, nursing homes, assisted care facilities	[0.6 ERU per unit]

4. Commercial and industrial units and other units:

Based on the following meter size as determined by approved engineering recommendation according to current ANSI/AWWA standard C700. Increases due to fire sprinkler installation may be disregarded in the below calculations; provided, that the increased capacity cannot be used for other than fire sprinklers.

Meter Size (inches)	ERU
5/8	1
3/4	1.5
1	2.5
1-1/2	5
2	8

Meters sized greater than two inches or any use requiring an industrial pretreatment plan requires a city-approved engineering analysis of equivalent ERUs.

B. The decision of the city's director of public works as to anticipated water usage may be appealed to the board of adjustment upon written notice filed with the city clerk within 21 days of the director's decision.

C. If a project for which a GFC has been paid does not connect to the city water system before the building permit expires, a new GFC will be charged based on the difference between the GFC paid and the new GFC in effect on the date when a new complete building permit application is filed. No refund shall be issued if the new GFC is lower than the paid GFC.

D. Extensions of service in Sequim's corporate city limits and the urban growth area shall have a priority over extensions outside of Sequim's urban growth area except in the case of risks to public health so certified by the Clallam County health director.

E. Connection to the City Water System for Service of Properties Lying Outside the Corporate Limits but Within the Sequim Urban Growth Area. The city council may, at its sole discretion, extend the city's water system to serve property lying outside the corporate city limits but within the UGA. Such UGA extensions shall be made upon such terms and conditions as the council deems appropriate. Such

terms and conditions shall, at a minimum, include the following:

1. Owners of the property to be served shall sign and return to the city for recording purposes a declaration of covenant and an irrevocable power of attorney to the city and a commitment to annex and a waiver of all objections to annexation at such time as the extension of the corporate boundaries to include the subject property becomes desirable by the city. Such agreement shall constitute a covenant running with the land to be served.

2. Owners shall pay a monthly collection fee of not less than one and one-half times the fee charged to city residents. The council, at its discretion, may increase this amount in situations where the costs of providing service are extraordinary. Such monthly collection fees shall be adjusted at such time as the property is actually annexed into the city.

3. The city shall reserve the right to disconnect service in the event the continued service would subject the city water system to unreasonable damage, or unreasonable increased maintenance costs. The city shall reconnect after the risk of unreasonable damage and unreasonable increased maintenance costs no longer exists.

4. The city may require installation of or bonding or no-protest LIDs for streets, curbs, gutters and sidewalks and other terms as part of a preannexation agreement or other agreement with the city, which agreement shall be recorded as a covenant affecting all of the parcels of the owner receiving city services.

5. Owners shall also be bound by the applicable terms of any interlocal agreement between the city and Clallam County concerning land use and utilities in the Sequim urban growth area.

F. Latecomer Applicability. Owners of property connecting laterally to developer-established water trunk lines shall be subject to payment of latecomer fees as established by a recorded agreement between the city and the developer/installer.

G. General facilities charges for extensions of city water service outside city limits and outside the Sequim urban growth area for use for regionally significant residential units, commercial or industrial uses shall be established by the city council at the time of application for service.

H. Transfer of Water General Facilities Fees.

1. Persons or entities owning property for which water general facilities charges have previously been paid by the owner to the city may transfer the water development rights obtained by the general facilities payment to a different location under the following conditions:

a. The buildings which were served by the utilities provided pursuant to the general facilities payments are to be demolished or removed;

b. The general facility charge transfer shall be recorded in favor of the city in the county property records at the property owner’s expense.

2. In the event structures are destroyed or demolished on any site, an additional general facilities charge for a replacement structure erected upon the same site, and for which the same number of general facilities charges would be levied as had been previously paid, shall not be required.

3. The amount of general facilities charges which may be transferred shall be calculated based upon the amount actually paid by the owner of the premises at the time of the initial payment of general facilities charges. The funds paid may be transferred and applied to the new location at their face value. If, from the time of the initial payment to the time of the requested transfer, general facilities charges have increased, the transferor shall pay the difference between the general facilities charges paid and general facilities charges which would be levied under the new rate structure.

4. The terms of this section relating to transfer of general facilities charges shall apply to water general facilities charges. (Ord. 2013-005 § 1; Ord. 2007-001; Ord. 2005-029 § 2; Ord. 2004-002 Exh. A; Ord. 2002-015; Ord. 97-008 § 2)

13.72.030 Collection of fees.

The connection charges established in this chapter shall be collected at the time the request for connection is made or if a building permit is to be issued at the time the building permit is issued. (Ord. 299 § 2, 1974)

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.
Disclaimer: The City Clerk's Office has the official version of the Sequim Municipal Code. Users should contact the City Clerk's Office for ordinances passed subsequent to the ordinance cited above.

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Chapter 13.76
FEES FOR CONNECTION TO MAINS

Sections:

13.76.010 Connection to city constructed mains.

13.76.010 Connection to city constructed mains.

In addition to the connection charges set forth in other chapters of this division, persons or firms connecting to water or sewer mains constructed at the sole cost of the city and not pursuant to local improvement district bonds or through developer funding, shall pay the actual cost of the construction of the main serving the applicant's property, plus 10 percent as overhead for city administration unless such charges have been paid under other provisions of the code. (Ord. 2011-004 § 1 (Exh. A); Ord. 504 § 4, 1986)

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.
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Chapter 13.80
SEWER RATES AND CHARGES

Sections:

13.80.010 Sewer charges established – Effective date.
13.80.020 Sewer billing classifications.
13.80.030 Sewer rates and charges by classification (city rates).
13.80.040 Sewer rate sufficiency increases.
13.80.041 Single-family residential rates.
13.80.050 Sewer rural rates.
13.80.060 Administration authority.
13.80.070 Normal billing period.
13.80.080 Dedicated source of sewer rate reduction funds.
13.80.085 Single-family residential reduced sewer rates.
13.80.090 Reserved – Multifamily reduced sewer rates.

13.80.010 Sewer charges established – Effective date.

There are hereby established and shall be collected from each user of sewer service provided by the city of Sequim revised charges as hereinafter provided. The charges hereby established shall apply to sewer service provided on and after July 1, 1999, and shall supersede all existing schedules of charges as of said date but shall not negate those charges in place for services received prior to July 1, 1999. Future rates may be provided for in a rate and fee ordinance which shall be codified. (Ord. 2010-023 Exh. A; Ord. 2000-015; Ord. 99-009 § 1)

13.80.020 Sewer billing classifications.

A. Classifications.

1. “Single-family residential” shall apply to detached and attached single-family dwelling units with individual water meters.

2. Duplex residential shall be billed at single-family residential rate per unit.

3. “Multifamily” shall mean any residential facility containing three or more dwelling units on the same meter, including but not limited to triplexes, apartment buildings, condominiums and mobile or manufactured home parks, but shall not include hotels, motels, or overnight RV facilities.

4. Mobile home parks or condominiums on individual meters shall be billed at the single-family rate.

5. “Commercial” shall also include all nonresidential land uses which are not specifically itemized or defined as being included within another classification.

6. “Public authority” includes all public agencies and shall be billed at commercial rate.

7. Hotel/motel.

8. Overnight RV facilities with sewer hookups shall be billed at hotel/motel rate.

9. Industrial.

B. Other Definitions.

1. “City rates” are those which shall be charged to all properties connected to the sewer system which are located within the city limits of Sequim. “City rates” may include more than one rate if

based on different classes of users.

2. “Cubic foot” equals approximately 7.48 gallons.

3. “Customer” shall mean the party contracting for sewer service.

4. “Rural rates” are those which shall be charged to all properties connected to the sewer system which are located outside the city limits of Sequim.

5. “Sewer base rate” is defined as the monthly minimum bill per unit. Charges for the other Sequim utilities will be listed separately on the utility bill.

6. “Summer rates” are defined as usage occurring during the months of May through October.

7. “Winter rates” are defined as usage occurring during the months of November through April of each year. (Ord. 2010-023 Exh. A; Ord. 2000-015; Ord. 99-009 § 1)

13.80.030 Sewer rates and charges by classification (city rates).
Sewer rates and charges shall be adopted as outlined below or as hereinafter adopted by resolution.

A. Single-Family Residential and Duplex.

1. *Repealed by Ord. 2007-021.*

2. *Repealed by Ord. 2007-021.*

3. The single-family residential or duplex standby rate shall be the same as for that single-family residential or duplex base city water charge specified in Chapter 13.84 SMC. Where a residential property is connected to sewer service but not to city-provided water service, the two-tier lower rate is not available. Standby rates are not available for sewer-only service.

B. Multifamily Residential.

1. *Repealed by Ord. 2007-021.*

2. The multifamily residential basic sewer charge for the purpose of the standby rate shall be the same as that multifamily residential base water charge in Chapter 13.84 SMC. Standby rates are not available for sewer-only service.

C. Commercial and Public Authority.

1. *Repealed by Ord. 2007-021.*

2. Persons, firms or corporations may, at their own expense, arrange to separate water which will be discharged into the sewer system from water which will not be so discharged and a separate meter shall be installed to measure the amount of water discharged for irrigation or landscaping purposes, etc. Any said irrigation meter shall conform to city standards and shall not be installed until a city permit has been issued for such installation. The installed meter shall be inspected by a representative of the Sequim public works director. The public works representative will then notify the treasurer’s office of the date, meter number, type, size, number of meter digits, location and customer name of the newly installed irrigation meter. The separate irrigation meter charge will then be addressed within the water rate schedule only.

3. Where a commercial property is connected to sewer service but not to water service, the director of public works shall determine the sewer volume to be charged on a case-by-case basis, using an estimated figure for water consumption to be charged in addition to the established base rate.

D. Hotel/Motel.

1. *Repealed by Ord. 2007-021.*

2. The overage rate will only apply to the balance of excess consumption after 800 cubic feet has been subtracted.

E. RV Sites with Sewer Hookups. Each permitted transient RV site located within the city limits will be charged at the hotel/motel sewer rate.

F. Industrial. Industrial users impacting the sewer system beyond personnel restroom facilities will be addressed separately by contract.

G. Other. Rates for swimming pools which empty to the Sequim wastewater treatment plant will be addressed on an individual basis by the city manager, public works director and treasurer with council confirmation of their recommendation. (Ord. 2011-007 § 2 (Exh. B); Ord. 2010-023 Exh. A; Ord. 2007-021 § 1; Ord. 2003-014 § 1; Ord. 2001-024 § 2; Ord. 2000-020; Ord. 2000-015; Ord. 2000-001 § 1; Ord. 99-020 § 1; Ord. 99-009 § 1)

13.80.040 Sewer rate sufficiency increases.

To meet the revenue requirements of the sewer utility fund for normal operating and maintenance expense, reserves for debt service and coverage ratios (as required by bond and loan covenants) and reserves for renewal and replacement of infrastructure and for other lawful purposes, the rates will be increased periodically. See additional general facility charges for new connections to the sewer system. General facility fees are used for expansion purposes and help defray costs to the long-time customer of the utility system. These rates may be further modified by a rate and fee ordinance. See Chapter 3.68 SMC.

Monthly In-City Sewer Rates*	January 1, 2010
Single-Family Residential (base per unit) where connected to city-provided water utility	$51.82 (winter water avg. < 801) $59.92 (winter avg. > 800)
Single-Family Residential Sewer Only	$54.52 effective January 1, 2011**
Multifamily Residential (per unit)	$55.98
Commercial and Public Authority	$54.45 (> 800 cu. ft. = $0.045/cu. ft.)
Hotel/Motel and RV Sites	$54.45 (> 800 cu. ft. = $0.045/cu. ft.)
Rates outside city limits = 2 times base rate or as determined by contract	

*The below rates are amended by resolutions or ordinances adopted subsequent to Ord. 2007-021.

**Single-family residential sewer only rates shall be identical to single-family residential sewer rates for units connected to city-provided water until January 1, 2011.

(Ord. 2010-023 Exh. A; Ord. 2007-021 § 1; Ord. 2006-006 § 1; Ord. 2005-029 § 2; Ord. 2001-024; Ord. 2000-015; Ord. 99-009 § 1)

13.80.041 Single-family residential rates.
After January 1, 2011, the in-city single-family residential sewer rate shall be as set by a rate and fee resolution or ordinance. Where a residential property is connected to sewer service but not to city-provided water service, the two-tier lower rate is not available. (Ord. 2010-023 Exh. A; Ord. 2010-023 Exh. A)

13.80.050 Sewer rural rates.
Minimum rates for sewer service to customers located outside the current city limits shall be two times higher than the specified class base rate and usage fee charged inside the corporate limits of the city unless addressed under separate contract. Where a residential property is connected to sewer service but not to city-provided water service, the two-tier lower rate is not available. (Ord. 2010-023 Exh. A; Ord. 2000-015; Ord. 99-009 § 1)

13.80.060 Administration authority.
A. The finance director or his/her representative shall have authority under this chapter to adopt procedures necessary for the efficient and equitable administration of the residential volume-based sewer rate structure.

B. The public works director or his/her representative shall determine volume for equivalent residential units.

C. The planning director and the public works director shall determine the billing classification for any new sewer hookup application. (Ord. 2010-023 Exh. A; Ord. 2000-015; Ord. 99-009 § 1)

13.80.070 Normal billing period.
The normal billing period for customers shall be a one-month cycle. During change of ownership, utility charges for periods of less than two months shall be prorated. (Ord. 2010-023 Exh. A; Ord. 2007-021 § 1; Ord. 2000-015; Ord. 99-009 § 1)

13.80.080 Dedicated source of sewer rate reduction funds.
A. The city council authorizes the finance officer or designee to utilize an amount up to one percent of the annual residential sewer revenue to fund a reduced sewer rates program set out herein, at the finance officer's or designee's discretion as designated herein. From these dedicated funds, the finance officer or designee may determine the sewer rate reduction percentage that may be applied to qualified applicants for the program year, based upon the estimated number of qualified applicants and the available funds.

B. The finance officer or designee may reserve a portion of the funds, referenced in subsection A of this section, to be used for qualified applicants who may become eligible for the program after the application deadline.

C. The city may contract with other governmental agencies or nonprofit agencies to implement the provisions of this section and SMC 13.80.085, and the reserved section SMC 13.80.090.

D. For the first year of the program's existence, program implementation may be performed administratively if conducted uniformly and in compliance with the general intent of this section.

E. Once the dedicated source of funds has been exhausted or fully allocated, no new applications shall be approved, but the number of such applications shall be tabulated. (Ord. 2010-020 § 1 (Exh. A))

13.80.085 Single-family residential reduced sewer rates.
A. The city council may establish reduced sewer rates for specific customer classes as authorized by state law. The base rate for single-family residential sewer service supplied inside the city may be reduced by an amount not to exceed 50 percent for those customers who qualify under the following criteria:

1. Currently receives benefits from assistance programs as identified on the application for reduced utility rates and whose household has income and assets less than or equal to the minimum levels set by the city finance officer; or

2. Resides as a single occupant, head of household, or the spouse of the head of household in a single-family residential unit directly served by the sewer; and

3. Applicant is named on the bill or is the spouse of the person named on the bill.

4. Applicants whose water and sewer service charges are included in their housing payments shall not be eligible for reduced rates.

B. All applications must be renewed annually. Applications must be received by no later than November 30th of each year to apply for rate reductions for January usage of the following year. The credit shall not be retroactive and shall only be allowed from and after the date of approval for the program year. The city shall not be responsible for the failure of any qualified citizen to apply for reduced rates, and qualification without a completed and approved application shall not entitle any person to receive reduced rates.

C. Only one credit per utility shall be allowed for each billing period. Only one qualified person shall be allowed to accept and receive credits for each utility account. A qualified person shall not accept or receive credits for any residence that is not the qualified person's primary residence.

D. Credits shall be applied to the utility bill as part of the utility billing process. No credit shall be redeemed for cash or otherwise be reimbursed to the qualified person in any manner except as specifically authorized in this section.

E. The finance officer or designee may make administrative adjustments for program eligibility and/or rate reduction percentages. Adjustments are typically made annually, prior to the renewal period. Administrative adjustments shall be applied uniformly to each recipient under this program.

F. The initial year of the program's implementation may include revised application dates and other adjustments, which may be made administratively if conducted uniformly and within the general intent of this section.

G. The following acts are unlawful and subject to criminal punishment pursuant to Chapter 1.12 SMC:

1. Accepting or receiving any utility credit during or after any time in which the recipient is ineligible;

2. Providing any false information, including omitted information, on any application, form, or other document associated with determining eligibility to receive utility credit;

3. Failing to promptly, and no later than 14 days of a change, notify the city of any change that may affect continuing eligibility;

4. Failing to provide, within 14 days of a city request, proof of continuing eligibility for reduced rates;

5. If the city discovers any violation of these acts, the city will immediately terminate all future rate reduction credits and may seek reimbursement for loss to the city. Any applicant who has had their rate reduction credit terminated under this subsection shall be ineligible to re-apply. (Ord. 2010-020 § 1 (Exh. A))

13.80.090 Reserved – Multifamily reduced sewer rates.
Reserved. (Ord. 2010-020 § 1 (Exh. A))

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.

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Chapter 13.96
ENFORCEMENT

Sections:

13.96.010 Violation – Penalty.
13.96.020 Enforcement of existing requirements.

13.96.010 Violation – Penalty.

Any person, firm or corporation violating any provision of the ordinance codified in this division shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine in any sum not exceeding $1,000 or by imprisonment for up to 180 days or by both such fine and imprisonment. (Ord. 504 § 9, 1986)

13.96.020 Enforcement of existing requirements.

All rights of action under existing ordinances which the ordinance codified in this division in any way supersedes or repeals, whether action has been commenced thereon or not, shall proceed without being in any manner affected by the passage of the ordinance codified in this division. (Ord. 504 § 11, 1986)

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.
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Division IV. Utility Extensions

Chapter 13.98
DEVELOPER REIMBURSEMENT COLLECTION AGREEMENTS

Sections:

13.98.010 Purpose and authorization.
13.98.020 Definitions.
13.98.030 Applicability.
13.98.040 Application for developer reimbursement collection agreement.
13.98.050 Preliminary determinations.
13.98.060 Preliminary determination notice.
13.98.065 Future services.
13.98.070 Developer reimbursement collection agreement.
13.98.080 Recording – Effective date – Payment of charge – Lien for nonpayment.
13.98.085 Final determination notice.
13.98.090 Segregation.
13.98.095 Relief from charges.
13.98.100 Term of developer reimbursement collection agreements.
13.98.110 Removal of unauthorized connections or taps.
13.98.120 Defective work.
13.98.130 City administrative fees.
13.98.140 Payment of developer reimbursement charge.
13.98.150 Appeal.
13.98.160 Enforcement of developer reimbursement obligations.
13.98.170 City creation of or participation in developer reimbursement collection agreement.
13.98.180 Severability.

13.98.010 Purpose and authorization.

A. The city council may contract with private developers who use private funds to construct public utility and/or street system improvements pursuant to Chapters 35.72 and 35.91 RCW.

1. The purpose of this chapter is to establish a uniform methodology and process for the administration of reimbursement contracts applied for after June 1, 2010, for developers in circumstances where a developer uses private funds to construct a public utility and/or street system improvement(s) and desires to be compensated by property owners benefited by the improvements.

2. If Chapters 35.72 and/or 35.91 RCW are amended in any manner as to make this chapter inconsistent or to create a conflict, the appropriate statute shall control.

B. The city council is authorized, but not required, to accept, review, and/or approve proposed developer reimbursement collection agreements. This process is voluntary, both on the part of the developer and the city.

C. The city manager is authorized to sign a developer reimbursement collection agreement on behalf of the city, after the agreement has been reviewed by the city attorney and approved by the city council.

D. The provisions of this chapter are in addition to and intended to supplement any other requirements contained elsewhere in the Sequim Municipal Code. (Ord. 2010-009 § 2)

13.98.020 Definitions.

A. “Adjacent” means abutting or having frontage upon the sides or margins of any public roads, streets, rights-of-way or easements in which street system improvements are installed or directly connecting to street and/or utility system improvements.

B. “Benefit” means:

1. Street improvements that would be required for subsequent developers within the reimbursement area, but who do not need to install those improvements because the improvements already exist;

2. Actual and/or physical use of utility system improvements.

C. “Charge” or “charges” means an equitable pro rata charge to be paid by an owner of property within the reimbursement area for the cost of private construction of public street and/or utility system improvements made pursuant to a developer reimbursement collection agreement.

D. “Reimbursement area” means that area that includes all parcels of real property that will benefit, as determined by the public works director, from the installation of public utility and/or street system improvements. For streets, the reimbursement area includes those parcels that are adjacent to street system improvements and that would require similar improvements upon development. For utilities, the reimbursement area includes parcels that are likely to require direct connection to or service by utility system improvements constructed by a developer.

E. “Cost of construction” is the sum of the direct construction costs incurred to construct the street and/or utility system improvements plus indirect costs, which are limited to the city latecomer administrative fee (SMC 13.98.130) and developer administrative costs (subsection G of this section). “Direct construction costs” include but are not limited to all related design services, engineering, surveying, legal services, bonding costs, environment mitigation, relocation and/or new construction of private utilities as required by the city (i.e., power, telephone, and cable), relocation and/or installation of street lights, relocation and/or installation of signage, acquisition of right-of-way and/or easements, government agency fees, testing services, inspection, plan review and approval, labor, materials, equipment rental, and contractor and/or subcontractor fees or charges.

F. “Developer” means the individual or entity that contracts with the city for the construction of street and/or utility system improvements, where such improvements are a requirement for development of real property owned by the entity or individual.

G. “Developer administrative costs” means all indirect costs incurred by the developer in the creation and execution of a developer reimbursement collection agreement and managing the project, such as office supplies, mailings, clerical services, telephone expenses, accounting expenses, project oversight, and the like. Administrative costs shall not exceed three percent of all direct construction costs.

H. “Developer extension agreement” means an agreement between the developer and the city prior to the construction of required city improvements.

I. “Developer reimbursement collection agreement (latecomer’s contract)” means a written contract between the city and one or more developers in which the contract provides partial reimbursement for cost of construction of street system improvements and/or utility system improvements to the developer by owners of property who are likely to utilize the improvements and who did not contribute to the original cost of construction. References to “agreement” in this chapter means a developer reimbursement collection agreement.

J. “Direct connection” means a service connection, owned and maintained by the property owner and not the city, from existing or new utility improvements to the property owner’s system as may be required by SMC Titles 13 and 15 as enacted or as amended.

K. “Segregation” means a large parcel, upon which is levied a reimbursement charge, is divided into smaller parcels. The associated charge is divided among the smaller parcels in accordance with the provisions of the original means of allocating the reimbursement charge.

L. “Street system improvements” means public street and alley improvements made in existing or subsequently dedicated or granted rights-of-way or easements and any associated improvements, including but not limited to acquisition of right-of-way and/or easements, design, engineering, surveying, inspection, grading, paving, installation of curbs, gutters, pedestrian facilities, street lighting, bike lanes, and traffic control devices, relocation and/or construction of private utilities as required by the city (such as power, telephone, and cable), relocation and/or construction of street lights, traffic control devices, signage, and other similar improvements.

M. “Utility system improvements” means public water, sewer and storm drainage system improvements, including but not limited to the acquisition of rights-of-way and/or easements, design, engineering, surveying, inspection, testing, connection fees, and installation of improvements, which may include increased pipe size, as required by the city and includes all appurtenances. (Ord. 2010-009 § 2)

13.98.030 Applicability.

A. This chapter is intended to apply to all street system improvements and all utility system improvements where the construction of such improvements are the result of a city of Sequim ordinance or ordinances that require such improvements as a prerequisite to property development. A valid developer extension agreement must be in place. Street system improvements shall be limited to those improvements set forth in the developer extension agreement as required by Chapter 35.72 RCW.

B. Developer reimbursement collection agreements are allowed only for those improvements constructed within city limits. For the purposes of this chapter, improvements constructed or properties benefited within the city’s urban growth area may be eligible for or subject to a reimbursement agreement if there is a valid interlocal agreement between the city and Clallam County in place at the time of contracting that allows improvement construction and reimbursement.

C. Only projects in which the amount exceeds $50,000, as determined by the public works director, shall be eligible for a developer reimbursement collection agreement.

D. The improvement costs associated with the developer’s abutting right-of-way and transitions shall not be included in or eligible for a developer reimbursement collection agreement. An exception to this provision may be granted by the public works director when vertical grade and alignment changes are required to promote traffic safety and the public works director recommends inclusion in or application for a developer reimbursement collection agreement.

E. If the applicant takes advantage of impact fee credits or general facilities charge credits or other similar credits or offsets that the city has in place to assist in community development, those credits shall reduce the costs sought for reimbursement.

F. The developer(s) may be reimbursed only for that portion of the allowed costs that did not benefit the developer(s). (Ord. 2010-009 § 2)

13.98.040 Application for developer reimbursement collection agreement.

A. Any developer using private funds to construct street system improvements and/or utility system improvements in the city or within the city’s utility service area may apply for a developer reimbursement collection agreement in order to recover a fair pro rata share of the costs of construction from other property owners that will later derive a benefit from the street and/or utility system improvements made by developer.

B. If there is more than one developer for a single project, all developers seeking reimbursement must

join in the application for that project. Any developer not joined shall have that developer's contribution excluded from the calculation of the reimbursement charge and shall not be entitled to reimbursement. Developer(s), at the time of application, must include a signed, written statement from any developer that does not intend to seek reimbursement.

C. The application for a developer reimbursement collection agreement shall be made within 30 days after the date street and/or utility system improvements have been accepted by the city. The developer shall test all portions and elements of the improvements as specified by the city to demonstrate the satisfactory construction of the improvements prior to acceptance. "Acceptance by the city" shall mean, for purposes of this section, the date the improvements are conveyed to the city by a deed of conveyance or other equivalent written document. Application shall be made on forms prepared by the planning and public works department and shall be accompanied by the city base fee set forth in SMC 13.98.130. The application shall contain the following information, which shall be approved by a state of Washington licensed engineer:

1. A legal description of the developer's property.

2. A legal description of the properties within the developer's proposed developer reimbursement area together with the name and address of the owners of each property as shown in the records of the auditor's office of Clallam County.

3. Vicinity maps of developer's property.

4. The developer's proposed reimbursement area and general location of the street and/or utility system improvements.

5. Itemized costs, dated and approved by a state of Washington licensed engineer for the final cost of construction evidenced by actual invoices and receipts.

6. The developer's proposed allocation of the final cost of construction to the individual properties within the proposed reimbursement area and the method used for such allocation.

D. Within 30 days of the planning and public works department receiving the application for a developer reimbursement collection agreement, the public works director or designee will provide the applicant written notice of whether the application is complete and, if incomplete, what must be done for the application to be considered complete. The applicant will have no more than 30 days from the date of the written notice to respond and provide the information required to complete the application or, if the applicant cannot submit the required information within the 30-day period, the applicant shall provide the city a written explanation of why they cannot provide the information within the designated time period and a date that the requested information will be submitted. In his/her discretion, the public works director or designee may grant the applicant one extension of not more than 60 days to submit the required information if the decision is supported by written evidence. If the applicant fails to meet the foregoing time frame, the application shall be rejected as untimely.

E. The public works director or designee shall establish procedures and/or checklists for processing applications and complying with the requirements of this chapter. (Ord. 2010-009 § 2)

13.98.050 Preliminary determinations.

The public works department shall review the developer's proposed preliminary reimbursement area and the preliminary charge for real property benefited by the street and/or utility system improvements. The public works director may revise or modify the developer's proposed reimbursement area and charge, or formulate another reimbursement area and charge. The public works director shall provide the developer with the preliminary reimbursement area and the preliminary charge upon completion. Formulation, review, and modification shall be based on the criteria specified in subsections A through F of this section.

A. Whether the properties directly benefit from the improvements.

B. The likelihood that benefited property will be developed within 15 years or the maximum time allowed by statute (Chapter 35.72 RCW for streets, Chapter 35.91 RCW for utilities) from the date of recording of the developer reimbursement collection agreement.

C. The likelihood that at the time of development of the benefited property, the property will not be required to install similar street and/or utility system improvements because these improvements were already installed by the developer.

D. For street system improvements, benefited parcels that are adjacent to the street system improvements. Parcels not adjacent to the street system improvements shall not be included in the reimbursement area.

E. For utility system improvements, the likelihood (1) that the improvements will be tapped into or used by direct connections or connections to laterals or branches by properties within the reimbursement area, and that the improvements do not constitute mainline extensions to be owned and maintained by the city, or (2) that the properties will receive a special benefit from the utility system improvements including but not limited to pump stations, sewer lift stations, and additional utility pipe depth to accommodate future utility expansion.

F. An equitable allocation of the final cost of construction among the properties within the reimbursement area, so that each pays for benefits attributable to those improvements. The method or combination of methods used to calculate the allocation of the charge may be front footage, number of units, square footage, the zone and termini method, or other recognized methods of assessment authorized by Chapter 35.44 RCW for local improvement districts. The public works director is not required to use the same method that the applicant proposes for the allocation of costs. (Ord. 2010-009 § 2)

13.98.060 Preliminary determination notice.

A. The preliminary reimbursement area and the preliminary charge provided by the public works department shall be sent by certified mail to the property owners of record within the preliminary reimbursement area in accordance with Chapter 35.72 RCW, as from time to time amended.

1. If the city is participating in the project as a developer, the city shall send out notices.

2. If the project is funded solely by the applicant, the applicant shall send out notices on forms provided by the city. The applicant shall provide the city with a notarized affidavit providing proof of mailing within five days of mailing.

B. The city council has the authority to determine whether to enter into a developer reimbursement collection agreement pursuant to SMC 13.98.010(B), which includes the right to adopt, reject, or modify the reimbursement area and charge.

C. The applicant or any property owner within the preliminary reimbursement area may, in writing within 20 days of mailing the notice, request a hearing to be held before the city council to contest the preliminary reimbursement area and preliminary charge.

1. The city council, by ordinance or voice vote, may delegate a hearings officer to hold the requisite public hearing and establish a record, together with a recommendation for the city council.

2. Notice of the hearing shall be given to all property owners within the preliminary reimbursement area, and the hearing shall be conducted as soon as is reasonably practical.

3. The city council may adopt or reject the recommendations from the public works director, or the hearings officer, if applicable, in whole or in part or it may render its own findings and conclusions.

4. The city council's determination of the reimbursement area and the charge for each parcel shall be final.

D. If the preliminary determination of reimbursement area boundaries and charges is amended, which raises any charge or includes previously omitted property, a new notice of reimbursement area boundaries and charges shall be given as in the case of an original notice. In any renotification, property owners who received the original notice and whose charges were not raised, but did not request a hearing, shall be deemed to have waived any right to a hearing. Requests for a hearing on any amendments to the reimbursement area boundaries or any increased charge shall be processed in the same manner as in the case of an original hearing.

E. In the event no written request for a hearing is timely received as required, the public works director's recommendation of the reimbursement area and charge shall be presented to the city council. The council's determination of the reimbursement area and charge shall be final. (Ord. 2010-009 § 2)

13.98.065 Future services.

A. Preliminary or final approval of a developer reimbursement collection agreement shall not be construed to vest or grant the right to the extension or allocation of utility service to properties affected by the developer reimbursement collection agreement.

B. Payment of infrastructure improvements and/or payment of reimbursement charges, without actual connection from the property to be served to the system, shall not be construed to vest or grant the right to the extension or allocation of utility service to properties affected by the developer reimbursement collection agreement. (Ord. 2010-009 § 2)

13.98.070 Developer reimbursement collection agreement.

A. If approved by the city council and based upon the city council's determination of the reimbursement area and charge, the city council shall direct the city manager to enter into and execute a developer reimbursement collection agreement. The planning and public works department shall prepare and give to the applicant a developer reimbursement collection agreement for execution. The agreement must be signed by both parties within 60 days of receiving council direction.

B. Upon completion and acceptance of construction, the system(s) shall become the property of the city. The city may charge and receive rates and fees, in accordance with the city's established rates, for each utility system used.

C. Improvements shall be accepted only in accordance with the terms of the associated developer extension agreement. Nothing in this chapter shall be construed to relieve a developer from the duties associated with the developer extension agreement.

D. Any modification to the developer reimbursement collection agreement, including amendment, rescission, or assignment in any manner, shall be in writing and signed by an authorized person for the party to be charged. The agreement shall be binding to and for the benefit of all successors and/or assigns to this agreement.

E. Developer reimbursement collection agreements are controlled by the version of this chapter attached to the agreement entitled "Developer Reimbursement Collection Agreement Ordinance – Exhibit C." (Ord. 2010-009 § 2)

13.98.080 Recording – Effective date – Payment of charge – Lien for nonpayment.

A. The developer's right to reimbursement charges shall be effective as of the date of recording. The developer understands that any development within the reimbursement area that occurs prior to the date of recording shall not be subject to reimbursement charges, nor shall the city be liable for any such charges.

B. Any property described in the recorded application summary shall be subject to the charge after it has been approved by the city pursuant to this chapter.

1. Property owners who do not develop their property to the extent necessary to trigger the charges shall not be required to pay reimbursement charges. For streets, if a property owner, upon development, would not have been required to install similar improvements on which the charge is based, no payment shall be due. For utilities, if a property owner does not make a direct connection to the utility system upon which the charge is based, no payment shall be due.

2. If the developer is reimbursed for the cost of the improvements prior to the expiration of the period specified in the agreement, the agreement immediately terminates.

3. There is no guarantee that the developer will be reimbursed for any funds expended.

C. The developer reimbursement collection agreement shall be recorded by the developer with the Clallam County auditor within 30 days of the agreement's final execution. The developer shall provide the city with a copy of the properly recorded agreement within 15 days of recording. No charges shall be collected prior to the city receiving a copy of the recorded agreement. The city shall not be liable for any charges that may be due but not collected during the time between recording and receipt of proof of recording.

D. The city shall not issue or approve a building permit or similar development permit, nor grant permission to use water, stormwater, or sewer service, unless the city has received full payment of the charge applicable to the property connecting to or using the street and/or utility system improvements constructed by developer; if the developer reimbursement collection agreement's validity is being challenged, the city reserves the right to issue a permit, or give approval or permission without liability or prejudice to the city and without prejudicing the developer's rights or remedies under this chapter, at law, or in equity. The city will notify the developer in writing of its decision not to collect a reimbursement charge and the reason(s) for its decision within 30 days of its determination.

E. If improvements are made to a property within the reimbursement area without payment of a charge otherwise due and without challenging the validity of the developer reimbursement collection agreement, the amount of such charge shall be a binding obligation upon the owner of record (and successors) of the affected property. Any city liability resulting from the city's failure to collect a charge not challenged under subsection D of this section shall be limited to the amount of the charge that should have been collected.

F. Failure by a property owner to pay the charge due within 180 days of notice to this effect shall entitle the developer to pursue any remedy available at law or in equity. (Ord. 2010-009 § 2)

13.98.085 Final determination notice.

After the agreement is executed and recorded, final notice must be sent to all property owners within the reimbursement area. The final notice shall be implemented as set forth in SMC 13.98.060(A). There is no right to a public hearing in the final notice. (Ord. 2010-009 § 2)

13.98.090 Segregation.

A. The public works director or designee shall, upon the request of any property owner within the reimbursement area, segregate the reimbursement charge. The segregation shall be based upon the same factors applied when the charges were originally established, pursuant to SMC 13.98.050. The property owner seeking segregation of the charge shall pay an administrative fee to the city of Sequim based upon a segregation fee schedule to be established by the planning and public works department.

B. Properties derived from the parcel that is subject to the reimbursement charge shall be subject to that portion of the charge as determined by the public works director or designee. (Ord. 2010-009 § 2)

13.98.095 Relief from charges.

A. The city, through its designated agency, may relieve a parcel of a reimbursement charge if the property has a benefit from either (but not both) of two similar facilities. Relief shall be based upon sound engineering and policy justifications as to which facility(ies) directly benefit and/or are utilized by the parcel. Absent such justifications, the city shall give the applicant requesting relief the choice of facilities to utilize. The charge due shall be that charge associated with the utilized facility. The city shall provide notice to the developer within 30 days of relieving the parcel of the reimbursement charge.

B. In the event that a parcel is relieved from the reimbursement charge, the city shall not be liable for failure to collect the charge. (Ord. 2010-009 § 2)

13.98.100 Term of developer reimbursement collection agreements.

A. Each developer reimbursement collection agreement shall be valid for a period not to exceed 15 years or the maximum amount of time allowed by statute as enacted at the time of the agreement from the date of its recording.

B. Extension of a developer reimbursement collection agreement shall be allowed only when the city's action, such as a moratorium, phasing ordinance, concurrency designation, or other similar action, prevents making application for or approval of any new development within the reimbursement area for a minimum of six consecutive months. If an extension is granted, the agreement must specify the duration of the extension and must be recorded pursuant to and in accordance with SMC 13.98.080(C) prior to the city collecting any charges. (Ord. 2010-009 § 2)

13.98.110 Removal of unauthorized connections or taps.

A. Whenever any tap or connection is made into any utility improvement without payment of the charge being made as required by this chapter, the public works department is authorized to remove and disconnect, or cause to be removed and disconnected, such unauthorized tap or connection including all connecting tile or pipe located in the right-of-way and to dispose of such unauthorized material without liability.

B. The owner of the property where the unauthorized connection is located shall be liable for all costs and expenses of any type incurred to remove, disconnect, and dispose of the unauthorized tap or connection. The city reserves the right to collect for the costs and expenses related to an unauthorized connection, and assertion of this right is a separate and distinct matter from any right that the developer may assert in another proceeding. (Ord. 2010-009 § 2)

13.98.120 Defective work.

The developer shall be responsible for all defective work pursuant to the terms of the developer extension agreement. The city retains all rights and remedies available under the developer extension agreement. (Ord. 2010-009 § 2)

13.98.130 City administrative fees.

A. The city shall charge for processing developer reimbursement collection agreements a base fee as set by resolution. To the base fee shall be added one percent of the cost of construction. The base fee shall be paid at the time of application.

B. Further, for every separate parcel of property within the reimbursement area as approved by the city council, a parcel fee shall be added to the base fee. This fee and the one percent cost of construction fee shall be paid prior to execution of the agreement.

C. The base fee and the parcel fee shall be adjusted annually and shall be set by resolution. The base fee and parcel fee(s) are nonrefundable.

D. The base fee, parcel fee(s), and one percent cost of construction fee shall be included in construction and administration costs for the purposes of developing the reimbursement charge. (Ord.

2010-009 § 2)

13.98.140 Payment of developer reimbursement charge.

A. Each charge shall be due in its entirety upon connection to or use of a street and/or utility system improvement by a property subject to a charge, and shall be paid to the city in one lump sum as set out in the agreement until date of payment. The city will pay over to developer any reimbursement charges within 60 days of receipt.

B. The developer, successors, and/or assigns shall provide the public works director and the finance director with current contact and mailing information in writing at least every two years from the agreement execution date for the duration of the agreement. Failure to provide current contact and mailing information within 60 days of the specified time may result in forfeiture of any funds presently due or due in the future.

C. In the event funds are forfeited, the city may collect any funds due and must deposit those funds in the appropriate capital fund. The city has no obligation to seek out, identify, or otherwise determine the appropriate recipient of any collected funds.

D. When the charge for any property has been paid in full, the public works director or designee shall prepare a certification of payment and release that will release that property from charges associated with the developer reimbursement collection agreement. Recording of the certification of payment and release at the Clallam County auditor's office is the responsibility of the property owner to be released. The property owner must provide the city with a copy of the properly recorded release within 15 days of recording.

E. If payment of the reimbursement charge is made to someone other than the city prior to recording the agreement, the city will require proof of payment in the form of a written and signed release from the beneficiary and proof of the recorded release before allowing connection to or use of any system.

F. The city shall not be involved in enforcing private payment arrangements or mediating payment dispute between parties. (Ord. 2010-009 § 2)

13.98.150 Appeal.

With the exception of determination of the preliminary reimbursement area and preliminary charge as provided by SMC 13.98.060(B), a developer may appeal the interpretation and/or decisions of the public works department concerning any aspect of this chapter pursuant to Chapter 7.16 RCW. (Ord. 2010-009 § 2)

13.98.160 Enforcement of developer reimbursement obligations.

A. In processing and imposing obligations in this chapter for developer reimbursement, the city in no way guarantees payment, or enforceability of charges, or enforceability of the developer reimbursement collection agreement, or the amount(s) charged against persons or property within the reimbursement area, nor will the city offices or finances be used for enforcement or collection of any obligations beyond those duties specifically undertaken by the city as set out in the agreement. It shall be the developer's obligation to take whatever authorized means are available to enforce payment of reimbursement charges; and developers are authorized to take such actions. The city shall not be responsible for locating any beneficiary or survivor entitled to any benefits by or through a developer reimbursement collection agreement.

B. Any funds collected under this chapter that are undeliverable to the developer after 60 days from the expiration of the developer reimbursement collection agreement may be forfeited and deposited into the city's capital fund pursuant to SMC 13.98.140(C). (Ord. 2010-009 § 2)

13.98.170 City creation of or participation in developer reimbursement collection agreement.

A. Streets. The city may create or participate in a street improvement reimbursement agreement as a developer where the city has fully or partially funded the financing of the street improvements pursuant

to Chapter 35.72 RCW.

B. Utilities. The city may participate in a utility improvement reimbursement agreement as a developer where the city has contributed to the financing of utility improvements pursuant to Chapter 35.91 RCW. (Ord. 2010-009 § 2)

13.98.180 Severability.

If any clause, sentence, paragraph, section or part of this chapter or its application to any person or circumstance is held to be invalid or unconstitutional by a court of competent jurisdiction, such order or judgment shall not affect the validity or constitutionality of the remainder of any part of this title. To this end, the provisions of each clause, sentence, paragraph, section or part of this law are declared severable. (Ord. 2010-009 § 2)

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.
Disclaimer: The City Clerk's Office has the official version of the Sequim Municipal Code. Users should contact the City Clerk's Office for ordinances passed subsequent to the ordinance cited above.

City Website: http://www.sequimwa.gov/ (http://www.sequimwa.gov/)
City Telephone: (360) 683-4139
Code Publishing Company (http://www.codepublishing.com/)
eLibrary (http://www.codepublishing.com/elibrary.html)

Chapter 13.100
UTILITY EXTENSIONS

Sections:

13.100.010 Extensions – Where to be constructed.
13.100.020 Approval of plans.
13.100.030 Cost to be borne by applicant.
13.100.040 Costs – Inspection deposit.
13.100.050 Connection – Testing.
13.100.060 Proof of securing of easements required.
13.100.070 Developer to obtain all permits.
13.100.080 Developer to provide insurance.
13.100.090 Performance bond.
13.100.100 Transfer of title to city.
13.100.110 Extension to be completed within one year.
13.100.120 City costs to be borne by developer.
13.100.130 Conformance with other ordinances.
13.100.140 Violation – Penalty.

13.100.010 Extensions – Where to be constructed.
All extensions to the existing sanitary sewers, storm sewers and water mains of the city shall be constructed only upon public streets or alleys of the city or upon public streets over which the city has recorded easements for such utility lines. (Ord. 278 § 1, 1973)

13.100.020 Approval of plans.
Proposed extensions of utility lines shall be constructed and installed in accordance with plans prepared by a licensed civil or sanitary engineer and such plans must be approved by the city's engineer. All such extensions must be installed across the property being served in accordance with the requirements of the city engineer; provided, however, the city council may waive this requirement where the utility involved can never, under any circumstances, be extended beyond the property being served.

Construction and all other matters shall be approved by the city prior to construction. (Ord. 278 § 2, 1973)

13.100.030 Cost to be borne by applicant.
The actual cost of construction of extensions and appurtenances, including fire hydrants, manholes and valves shall be borne by the persons requesting the extensions. (Ord. 278 § 3, 1973)

13.100.040 Costs – Inspection deposit.
A. Persons obtaining extensions of the city sanitary sewers, storm sewers or water mains shall pay the city's engineering costs incurred in reviewing the plans, consultations concerning the city's requirements, inspection of the work and administration of the extension of the utility system. An inspection and engineering fee deposit shall be paid to the city at the time application for the extension is made. The deposit shall be in an amount equal to $0.10 per lineal foot of each utility under consideration as shown in the construction plans with a minimum deposit of $50.00 for each application.

B. Before the city will accept the completed extension, the applicant shall pay all of the city's engineering costs that exceed the engineering and inspection fee deposit and if the city's actual engineering and inspection expenses are less than the deposit the difference shall be refunded to the applicant. (Ord. 278 § 4, 1973)

13.100.050 Connection – Testing.
All connections to the existing system and all testing of the lines shall be made in the presence of the city's engineer and/or his authorized representative. (Ord. 278 § 5, 1973)

13.100.060 Proof of securing of easements required.
Proof that the applicant has secured any required easements shall be delivered to the city prior to commencing construction. (Ord. 278 § 6, 1973)

13.100.070 Developer to obtain all permits.
The developer shall obtain all necessary permits and approvals from any governmental agencies concerned and provide the city with a copy of all permits. (Ord. 278 § 7, 1973)

13.100.080 Developer to provide insurance.
The developer agrees to provide liability and property damage insurance in the amounts determined by the city and to provide the city with written evidence of the insurance and its continuation and naming the city as an insured. (Ord. 278 § 8, 1973)

13.100.090 Performance bond.
A. The applicant shall furnish to the city a performance bond on that portion of the extension constructed on streets, alleys or dedicated easements in an amount equal to the city engineer's estimated cost prior to construction. The performance bond shall be for the purpose of:

1. Guaranteeing satisfactory construction of the extension on public rights-of-way;

2. Benefiting all persons furnishing labor and materials claiming under the Public Work Lien Statutes or the Mechanic's and Materialman's Lien Statutes of the state.

B. The applicant shall also furnish a warranty maintenance bond in an amount to be determined by the city engineer prior to acceptance of the extension, guaranteeing all materials, equipment and labor for a period of one year from acceptance of the work by the city. (Ord. 278 § 9, 1973)

13.100.100 Transfer of title to city.
Upon completion of the construction and upon its approval, prior to the acceptance thereof by the city council, title to the system shall be transferred to the city in a form approved or furnished by the city, together with a certified statement as to the total construction cost, unit prices, and a list of all materials and manufacturers thereof as installed in the construction, as-built drawings and thereafter such extension shall be subject to the sole control, use and operation of the city. The system shall not be used for any purpose until accepted by the city. (Ord. 278 § 10, 1973)

13.100.110 Extension to be completed within one year.
The extension shall be complete and accepted within one year of the date of application. If the extension is not completed and accepted within one year from the date of application, then the applicant's rights shall cease and he shall make new or amended application and pay the additional administrative, legal, engineering and inspection costs involved, all as determined by the city council. (Ord. 278 § 11, 1973)

13.100.120 City costs to be borne by developer.
Any costs reasonably incurred by the city for legal services, accounting services and other services incident to the receipt, study and approval or rejection of this application shall be borne by the developer, and the developer agrees to pay such costs within 30 days of billing by the city. If legal proceedings are instituted to enforce any provision of this agreement, the applicant will pay a reasonable attorney's fee to the city. (Ord. 278 § 12, 1973)

13.100.130 Conformance with other ordinances.
All extensions of utilities shall be in compliance with all ordinances of the city including ordinances hereafter adopted relating to utility rates, assessments and connection charges. (Ord. 278 § 13, 1973)

13.100.140 Violation – Penalty.

Violations of this chapter shall be misdemeanors and upon conviction of a violation the person shall be subject to a maximum fine of $300.00. (Ord. 278 § 15, 1973)

The Sequim Municipal Code is current through Ordinance 2013-013, passed August 12, 2013.

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Chapter 13.102
SERVICE EXTENSION REVIEW PROCESS (SERP)

Sections:

13.102.010 Purpose.
13.102.020 Applicability and process.
13.102.030 Definitions.
13.102.040 Development exempt from municipal connection.
13.102.050 Land divisions (new lots).
13.102.060 Individual lot development (pre-existing lot).
13.102.070 Individual lot development (new lot).
13.102.080 STEP systems.
13.102.090 Nonmunicipal utilities.
13.102.100 Connection and design standards.
13.102.110 Waivers.
13.102.120 Administration.
13.102.130 Utility connection and user fees.

13.102.010 Purpose.
The purpose of the service extension review process (SERP) is to ensure that adequate public facilities for potable water and wastewater treatment are provided in an efficient and coordinated manner within the city of Sequim. (Ord. 98-021 § 1)

13.102.020 Applicability and process.
The SERP contains the requirements for the provision of municipal and nonmunicipal sewer and water utilities within the city. All development which requires a city land use permit or Clallam County approval of sewage disposal and/or city review of water supply utilities shall comply with the provisions of this SERP. The city of Sequim shall provide the public reference information (e.g., flowcharts) and amend development application procedures as necessary to facilitate the SERP. (Ord. 98-021 § 1)

13.102.030 Definitions.
“Accessory dwelling unit” means a separate dwelling unit within a single family dwelling or a separate structure associated with a single family dwelling which is incidental and subordinate to the primary use of the property.

“Administrator” means the director of the city of Sequim public works department or his/her designee.

“Available municipal utility,” “sewer utility,” “water utility” means an existing municipal sewer and/or water utility main located within 200 feet of a property line or approved dryline utility, as measured along the public right-of-way or any public easement granted to municipal utilities, at the time of receipt by the city of Sequim of a complete application. Privately-owned utility connections to a municipal sewer and/or water public utility main are not considered available municipal utilities.

“Community on-site sewage disposal system” means an on-site sewage disposal system as defined under Chapter 246-272 WAC, that serves two or more dwelling units.

“Connection” means the physical linking or “hook-up” of municipal sewer and/or water services to a subject use or property. Connection includes all buildings, habitable structures, plumbing outlets, and domestic water lines requiring municipal sewer and/or water services.

“Development,” for the purposes of the SERP, means any activity located within the city of Sequim which requires a permit or approval of existing or new sewage disposal and/or water supply utilities from the city including, but not limited to, land divisions, building permits, and on-site sewage permits.

“Dryline utilities” include any of a number of methods of installing utilities at the time of development for connection to a municipal distribution system at a later time.

“Duplex” means two dwelling units having a common roof.

“Dwelling unit” means any building or any portion thereof which is intended or designed to be used, rented, leased, let or hired out to be occupied for living purposes having independent living facilities for one family including permanent provisions for living, sleeping, eating, cooking, sanitation and including accessory structures and improvements.

“Existing municipal utility” means an installed municipal water or sewer main located in the public right-of-way or public utility easement that is available for connection.

“Final plat” means as set forth under SMC Title 17.

“Group home” means a facility licensed by the state which is located in a single building utilized for the full-time shelter and care of a group of unrelated people.

“Land divisions” means any applications for division of land which is subject to the SMC Title 17 and/or Title 18, including a subdivision, planned unit development, binding site plan, minor subdivision, or major subdivision.

“Lot,” “parcel,” or “tract” shall be an ownership of land in which the boundary is defined by a deed recorded in the county auditor’s office and assigned a tax parcel number by the county assessor; or a lot which has been defined by a survey recorded pursuant to Washington State surveying or platting laws and is assigned a tax parcel number by the county assessor;

“Municipal services or utilities” means sewer and water services provided by the city of Sequim. For the purposes of the SERP, municipal water services may also include the Evergreen Public Utility District water system or other public water systems that have entered into an urban growth area service agreement with the city of Sequim.

“Multiple-family dwelling” means a building containing two or more dwelling units. For the purposes of this SERP, a group home is considered to be a multiple-family dwelling when it is occupied by 13 or more residents, including resident staff.

“Nonmunicipal utilities” means sewer and water services not defined as municipal services or utilities. Nonmunicipal utilities include on-site sewage systems, community on-site sewage systems, individual water supply wells, and public water systems.

“Planned municipal utilities” are those future municipal sewer and water utilities identified and mapped in the current version of the city of Sequim wastewater and water service plans.

“Pre-existing lot” means any lot, parcel or tract established prior to the effective date of the SERP, April 13, 1998.

“Public water system” means as defined and referenced under WAC 246-290-020.

“Residential use,” for the purposes of the SERP, shall mean single-family, multifamily, and accessory dwelling units.

“SERP” means the Service Extension Review Process (SERP) jointly adopted by the city of Sequim and Clallam County for the provision of sewage disposal and water within the unincorporated Sequim urban growth area and within the city of Sequim.

“Single-family dwelling” means a dwelling unit detached from any other dwelling unit and intended for occupation by one family and including accessory improvements and uses. This definition includes

manufactured homes such as mobile homes, modular homes and other homes manufactured in components or as one complete dwelling unit. For the purposes of this SERP, a group home is considered to be a single-family dwelling when it is occupied by 12 or fewer residents, including resident staff.

“STEP system” means a septic tank effluent pump (STEP) system consisting of a tank or tanks for settling and digesting wastewater solids and a pressure piping system for conveying the supernatant liquid into the municipal sewer system. STEP systems permit only sanitary wastewater to be discharged into the tank. Roof drains and other stormwater sources shall be strictly excluded.

“Utilities,” for the purpose of the SERP, means private and municipal water and sewage disposal systems located within the city. (Ord. 98-021 § 1)

13.102.040 Development exempt from municipal connection.
Connection to municipal water and/or sewer utilities shall not be required for the types of development listed below; provided, that such development is otherwise consistent with the provisions of the SERP and all other applicable city and state regulations. Development exempt from municipal service connection may request municipal services to comply with city and state requirements for sewage disposal and potable water. The city shall consider connection to municipal services to comply with public health and sanitation requirements.

A. Development not requiring approval of water supply and sewage disposal systems.

B. One individual, detached single-family or duplex residential dwelling on a lot that is one acre or greater.

C. Any development that was connected to and served by a nonmunicipal utility prior to the effective date.

D. Nonmunicipal water utilities that are used solely for agricultural or nonhuman consumption.

E. Any development issued an applicable and valid building permit prior to the effective date; provided, that the permit remains applicable and valid pursuant to the Sequim Municipal Code; provided further, that this exemption does not apply to any lot required to be served by a municipal utility as a condition of preliminary or final plat or plan approval pursuant to the SMC Title 17 or Title 18.

F. Any development on a pre-existing lot that will be served by a public water system where such service was approved for such development as a condition of final plat approval shall not be required to connect to municipal water services.

G. Any development on a pre-existing lot that will be served by a community on-site sewage system where such service was approved for such development as a condition of final plat approval shall not be required to connect to municipal sewer services.

H. Accessory dwelling units on lots one acre or larger, except where the primary residential use on the lot is connected or required to connect to municipal utilities under the SERP.

I. Home enterprises and home based businesses permitted under the Sequim Municipal Code that do not require potable water and sewage disposal beyond what could be normally expected of a single-family residence, except where the primary residential use on the property is connected or required to connect to municipal utilities under the SERP.

J. Any expansion, remodeling, or reconstruction activity of an existing structure or use that does not involve drilling of a new well or cause wastewater flows to exceed the treatment or disposal capability of the existing on-site sewage system.

K. Development on pre-existing lots of record approved for connection to nonmunicipal utilities for a

period of five years from the date of final plat approval. (Ord. 98-021 § 1)

13.102.050 Land divisions (new lots).

The city of Sequim agrees to process and condition applications for land divisions that are accepted as complete on or after the effective date as follows:

A. Nonresidential Lot. Any lot where the planned use of the lot is for a commercial, industrial, or other nonresidential use shall be connected to municipal sewer and water utilities prior to final plat approval. A note shall be placed on the face of the plat that indicates what municipal services are provided and that all future development requiring such services shall be required to connect to such services prior to development approval.

B. Multifamily Residential Lot. Any lot where the planned use of the lot is for a multifamily dwelling shall be connected to municipal sewer and water utilities prior to final plat approval. A note shall be placed on the face of the plat that indicates what municipal services are provided and that all future development requiring such services shall be required to connect to such services prior to development approval.

C. Single-Family Residential Lot Less than One-Half Acre. Any lot less than one-half acre where the planned use of the lot is for a single-family dwelling shall be connected to municipal sewer and water utilities prior to final plat approval. A note shall be placed on the face of the plat that indicates what municipal services are provided and that all future development requiring such services shall be required to connect to such services prior to development approval.

D. Single-Family Residential Lot Between One-Half and One Acre. Any lot between one-half acre and one acre where the planned use of the lot is for a single-family dwelling shall be connected to municipal sewer and water utilities prior to final plat approval. Land divisions that are not located within 200 feet of an available municipal utility, may be approved without connection to municipal utilities provided that all of the following criteria are met prior to final plat approval:

1. The county health official determines that the use of non-municipal utilities complies with all county and state requirements pertaining to sewage disposal and potable water.

2. Nonmunicipal utilities are otherwise provided consistent with the SERP.

3. A dry sanitary sewer main and water main is installed within the land division and side line sewer and water mains are provided to any lot between one-half acre and one acre. Common utility facilities associated with a public water system or community on-site sewage system shall be allowed in lieu of dryline utilities where such facilities meet the same design requirements for municipal utilities.

4. Any lot less than one acre shall connect to municipal utilities within one year of notification by the city of Sequim that an existing municipal sewer and/or water utility is determined to be available as defined in subsection (D)(3) of this section. A note shall be placed on the face of the plat that cites which lots are subject to connection and which states the requirements for future connection when municipal services become available. Connection shall not be required where water services are provided by a public water system that is otherwise consistent with the SERP.

E. Single-Family Residential Lot One Acre or Greater. Any lot that is one acre or greater where the planned use of the lot is for a single-family dwelling must obtain approval from the county health officer that the lot has met all state and county requirements pertaining to sewage disposal and potable water. Connection to municipal utilities is not required. Lots connected to municipal services shall be considered to comply with all state and county requirements pertaining to sewage disposal and potable water.

1. Any lot not connected to municipal utilities shall demonstrate that adequate accommodations

have been provided for the future provision of municipal utilities. Accommodations for the future provision of municipal utilities may be demonstrated by one or more of the following methods:

a. Extension of municipal services to the property line;

b. Provision of dryline utilities; and/or

c. Provision of municipal utility easements and rights-of-way.

2. Notice shall be recorded on the face of the plat as follows:

All lots [or specify individual lot numbers] shown on this [specify land division type (e.g., short plat)] have not been required to connect to [specify applicable municipal utilities]. Future development or subdivision of this property may require the provision of municipal sanitary sewer and/or domestic water services. For information on municipal utility connection standards, contact the City of Sequim for lots located within the city limits.

(Ord. 98-021 § 1)

13.102.060 Individual lot development (pre-existing lot).

A. Unless exempted under SMC 13.102.040, connection to municipal services consistent with this section is required for the following types of development on a pre-existing lot of record:

1. Nonresidential development;

2. Multifamily residential development consisting of a total of three or more dwelling units; and

3. Single-family and associated accessory dwelling unit (if applicable) and duplex residential development on lots less than one acre.

B. Available Municipal Utility. Where the municipal utility is an available municipal utility, connection to such utility shall be required prior to final approval of the development by the city of Sequim.

C. Municipal Utility Not Available. Where the municipal utility is not available, the provision for connection shall be met by either:

1. Extension of and connection to municipal utilities prior to final approval of the development by the city of Sequim; or

2. Installation of nonmunicipal utilities that are otherwise consistent with the provisions of the SERP; provided, that connection shall be required within one year of notification by the city of Sequim that an existing municipal sewer and/or water utility is determined to be available as defined in SMC 13.102.030. (Ord. 98-021 § 1)

13.102.070 Individual lot development (new lot).

Development on any lot created after the effective date shall provide for connection to available municipal utilities as conditioned at the time the lot was legally established, or as otherwise required under the SERP. (Ord. 98-021 § 1)

13.102.080 STEP systems.

Existing or new development required to connect to a municipal sewer utility, may be permitted to establish a septic tank effluent pump (STEP) wastewater system in lieu of conventional connection where consistent with the other provisions of the SERP and the below standards:

A. The STEP system shall consist of a tank or tanks for settling and digesting wastewater solids, and a pressure piping system for conveying the supernatant liquid into the city of Sequim sewer system.

B. The STEP system shall only allow sanitary wastewater to be discharged into the tank. Roof drains and other stormwater sources shall be prohibited.

C. Property owners will be responsible for the maintenance of all laterals and side (or building) sewer lines associated with STEP systems. (Ord. 98-021 § 1)

13.102.090 Nonmunicipal utilities.
Nonmunicipal utilities shall comply with all applicable state and local regulations. In addition, nonmunicipal utilities shall meet the following requirements:

A. Existing public water systems and/or community on-site sewage disposal systems shall not be allowed to expand their services to lots less than one acre unless such connection was approved prior to the effective date of the SERP by Clallam County and/or through an urban growth area service area agreement between the service provider and the city of Sequim, and such connection is otherwise consistent with the SERP.

B. Extension of services by existent public water systems and/or community on-site sewage disposal systems will be reviewed to ensure that all applicable state and local regulations have been met, and that no extension of a nonmunicipal service by an existing non-municipal utility creates an “unservable” condition within the city or within the Sequim urban growth area.

C. Nonmunicipal sewage utilities allowed to serve development not otherwise exempted from connection under the SERP agreement shall be designed and installed to be able to connect in the future to municipal sewer utflities. This may include drylining utilities for future connection or the provision of a STEP system.

D. New, nonmunicipal utilities shall not be located within 200 feet of the property boundary of a designated municipal wellfield area as identified on the current wellfield area map of the municipal provider.

E. Nonmunicipal utilities that provide service to more than 15 connections that propose to extend services shall enter into an service agreement with the city of Sequim. The service agreement shall be consistent with the guidelines and policies for such agreements under the Clallam County county-wide planning policies, dated June 30, 1992, as amended.

F. Accessory dwelling units must be connected to the same sewer and water utility as the primary residential unit on lots that are less than one acre in size.

G. Single-family and duplex residential development established after the effective date of the SERP on lots which are one acre or greater shall provide for connection to municipal utilities consistent with this SERP when such lots are redivided pursuant to SMC Title 17 or Title 18 to less than one acre.

H. Development served by a failing non-municipal sewage system shall connect to an existing municipal sewer utility in accordance with the Clallam County Health Rules, C.C.H.R. 4.040 and WAC 246-272-07001, as amended. The determination of whether an on-site sewage system is failing shall be made by the county based on the definition of failure, as amended, under the State On-Site Sewage System Rules, Chapter 246-272 WAC. (Ord. 98-021 § 1)

13.102.100 Connection and design standards.
All facilities intended to be connected to a municipal utility, including dryline utilities and STEP systems, shall be designed, installed, connected, and inspected as required by the municipal service provider. (Ord. 98-021 § 1)

13.102.110 Waivers.
The administrator reserves the right to waive connection requirements to municipal services for lots created prior to the effective date of the SERP which are encumbered by topographic, environmental, and/or significant technical limitations associated with the provision of services which would require the construction of facilities which are disproportionate in size and capacity to the proposed scale of development. Waivers shall not be granted in cases where failure to provide municipal utilities would

have a probable adverse environmental impact.

The administrator shall only grant waivers based on adoption of appropriate findings and conclusions. Examples of circumstances supporting the granting of a waiver may include, but shall not be limited to, the unavoidable crossing of environmentally sensitive areas such as a wetland, or the provision of services in an area containing significant topographic variations which would require major improvements such as a municipal lift station with an ultimate service area of less than 10 connections, and/or connections which would require extensive revisions to existing infrastructure. (Ord. 98-021 § 1)

13.102.120 Administration.
The public works director, as part of the development review process, shall determine whether extension of municipal services is required subject to the SERP. Where connection to municipal sewer and water services is required, the written determination shall include a statement for service commitment from the city of Sequim. (Ord. 98-021 § 1)

13.102.130 Utility connection and user fees.
Utility connection and user fees shall be established by the appropriate municipal provider. (Ord. 98-021 § 1)

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Division VI. Reclaimed Water

Chapter 13.112
RECLAIMED WATER

Sections:

13.112.010 Reuse policy.
13.112.020 Definitions.
13.112.030 Cross-connection control and use area requirements.
13.112.040 Allowable uses.
13.112.050 Connection policy.
13.112.060 Rates.
13.112.070 Unauthorized work on reclaimed water system.
13.112.080 Inspection.
13.112.090 Administration authority.
13.112.100 Penalty.
13.112.110 Ownership.

13.112.010 Reuse policy.
It is the policy of the city that reclaimed water shall be used within its jurisdiction wherever feasible, and consistent with legal requirements, preservation of the public health, safety, and welfare, and the environment. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.020 Definitions.
“Beneficial use” means the use of reclaimed water, which has been transported from the point of production to the point of use without an intervening discharge to waters of the state, for a beneficial purpose.

“Landscape impoundment” means a body of reclaimed water which is used for aesthetic enjoyment or which otherwise serves a function not intended to include public contact. Examples may include, but are not limited to, golf course water ponds/hazards, landscape ponds and vegetative landscape ponds, e.g., “lily ponds.”

“Potable water” means water which conforms to the federal, state, and local standards for human consumption.

“Reclaimed water,” for the purposes of this chapter, means reclaimed water that, at a minimum, is at all times an oxidized, coagulated, filtered, disinfected wastewater. The wastewater shall be considered adequately disinfected if the median number of total coliform organisms in the wastewater after disinfection does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last seven days for which analyses have been completed, and the number of total coliform organisms does not exceed 23 per 100 milliliters in any sample. Reclaimed water meeting or exceeding these criteria is classified by the state of Washington as Class A reclaimed water.

“Reclamation plant” means an arrangement of devices, structures, equipment, processes, and controls which produce reclaimed water suitable for the intended reuse.

“Reuse” means the use of reclaimed water, in compliance with the Washington Departments of Health and Ecology regulations and the Water Reclamation and Reuse Standards, for a direct beneficial use.

“Sewage” means water-carried human wastes from residences, buildings, industrial and commercial establishments, or other places, together with such ground water infiltration, surface waters, or industrial wastewater as may be present.

“Streamflow augmentation” means the discharge of reclaimed water to rivers and streams of the state or other surface water bodies, but not wetlands.

“Use area” means any facility, building, or area approved for reuse and permitted by the Washington Departments of Health and Ecology. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.030 Cross-connection control and use area requirements.

A. Prior to connecting a use to the reclaimed water system, the public potable water supply shall be protected by installation of an approved cross-connection control assembly in accordance with the Water Reclamation and Reuse Standards published jointly by the Washington State Departments of Health and Ecology (1997), or subsequent revisions.

B. The reclaimed water distribution system shall include special considerations to avoid cross-connections with the potable water system, in accordance with the Water Reclamation and Reuse Standards published jointly by the Washington State Departments of Health and Ecology (1997), or subsequent revisions. The following features shall be included in reclaimed water systems to protect the public health:

1. Reclaimed water distribution systems shall be constructed with purple pipe (Pantone 522 or other shades of purple acceptable to review agencies) and embossed or integrally stamped or marked “CAUTION: RECLAIMED WATER – DO NOT DRINK” or be installed with a purple (Pantone 512 or other shades of purple acceptable to review agencies) identification tape or polyethylene vinyl wrap. The warning shall be stamped on opposite sides of the pipe and repeated every three feet or less.

2. Square valve box covers painted purple (Pantone 522 or other shades of purple acceptable to review agencies) to distinguish from potable water system valve boxes.

3. Purple strip on street curb to identify reclaimed water customer.

4. Reclaimed water meters color-coded with tape to distinguish from potable water meters (where applicable). Meters, covers and meter box covers should be cast to indicate reclaimed water. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.040 Allowable uses.

The city shall encourage and allow uses of its reclaimed water for applications that produce benefit to the city and further its adopted goals for the system. As such, all allowable uses identified in accordance with the Water Reclamation and Reuse Standards published jointly by the Washington State Departments of Health and Ecology (1997), or subsequent revisions shall be considered for application of the city’s reclamation water. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.050 Connection policy.

A. Within all new development areas, a reclaimed water system shall be encouraged to satisfy current planning and use of reclaimed water as established by the reclaimed water master plan, or subsequent revisions. Costs for the installation of a nonpotable water distribution system shall be borne by the owner/developer.

B. Within areas already developed, owners/ developers who wish to utilize reclaimed water may request to be allowed to install distribution lines to their property. All costs for the installation of such nonpotable water distribution system shall be borne by the owner/developer. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.060 Rates.

A. Reuse Water Rates and Charges (No Free Service). The city will not furnish any service of the system to any customer whatsoever free of charge.

B. All Classifications.

1. All classifications shall be set by meter size.

2. The water service base charge for each service, business or public authority shall be monthly as follows:

Meter Size	
3/4"	$4.25
1"	$5.69
1-1/2"	$9.17
2"	$13.38
3"	$24.60

3. The reuse water service consumption charge for each service per month shall be as follows:

From	To	Rate/c.f.
Zero	5,000	$.004
5,001	20,000	$.003
20,001	50,000	$.002
50,001 and above		$.001

C. Reuse Water Rural Rates. Minimum rates for reuse water service to customers located outside the current city limits shall be two times higher than the specified class base rate and the usage fee charged per unit inside the corporate limits of the city or two times the total bill as computed by the in-city rate.

D. Normal Billing Period. The normal billing period for customers shall be a two-month cycle and shall be that period falling between two consecutive water meter read dates; provided, however, the city may elect to change to a monthly utility billing cycle for accounts when feasible. During change of ownership, utility charges for periods of less than two months shall be prorated.

E. Effective Date. The ordinance codified in this chapter shall be effective after its approval, passage and publication as required by law for services rendered on or after the first day of November, 2002. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.070 Unauthorized work on reclaimed water system.

A. No person, unless expressly authorized by the city manager or his/her designee, shall tamper with, work on, or in any way alter or damage any city reclaimed water facility. “Tampering with” or “working on” shall include, but not be limited to, opening or closing of valves, or causing any reclaimed water to flow from the system. No unauthorized person shall cut into or make any connection with the system. The offending person shall be liable for the cost of all charges attributable to the correction of such tampering, including legal expenses, but payment of or correcting such damage shall not relieve the offending person from civil or criminal penalties the city or a court of law may impose for a violation of a city ordinance.

B. The service valve located between the customer’s reclaimed water system and the city’s distribution system may be operated by the customer when his private cut-off valve, required on the customer’s premises, requires repair. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.080 Inspection.

A. To ensure that the provisions of city ordinances, regulations, and procedures are being observed, the city reserves the right and privilege of inspecting, removing, and/or securing any or all devices installed by the customer which connect to or control the reclaimed water.

1. Inspections without cause to believe that an ordinance or regulation is being violated shall be at reasonable times and shall not exceed a reasonable frequency.

2. Inspections where there is reasonable cause to believe that an ordinance or regulation is being violated shall be at such times and shall occur with such frequency as is necessary to establish that an ordinance is or is not being violated.

B. Each customer of reclaimed water shall give prior written consent to entry upon his premises for the purposes of inspecting the reclaimed water system, and thereby waives any other written notice for such inspection. Failure of the city to obtain such a written waiver shall not affect the right of the city to proceed pursuant to this chapter.

C. Refusing to permit an authorized city agent or employee to enter onto the premises for the purposes of inspecting the customer's reclaimed water system pursuant to this section shall constitute a violation of this section and shall be grounds for immediate discontinuance of reclaimed water service by the city to the subject premises. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.090 Administration authority.
The city exercising authority through the city manager or his/her designee shall have authority under this chapter to adopt procedures and make interpretations necessary for the efficient and equitable administration of this chapter. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.100 Penalty.
Violation of any provision of this chapter shall be subject to prosecution in the same manner as misdemeanors are prosecuted, and, upon conviction, such person shall be punished by a fine not to exceed $500.00. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

13.112.110 Ownership.
All constructed reclaimed water facilities and appurtenances, other than indoor plumbing and irrigation systems, shall be approved by the city, and shall become and remain the property of the city. No person shall by payment of any charges provided herein, or by causing any construction of the facilities accepted by the city, acquire any interest or right in any of these facilities, or any portion thereof, other than the privilege of having their property connected thereto for reclaimed water services in accordance with this chapter. (Ord. 2002-021 § 1; Ord. 2000-017; Ord. 99-019)

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APPENDIX J

DEVELOPER STANDARDS

SECTION III

SANITARY SEWER SYSTEMS

General Standards

SANITARY SEWER SYSTEMS

TABLE OF CONTENTS

		Page
1.	Objective	1
2.	General	1
3.	General Requirements	3
4.	Materials	5
5.	Side Sewer Lateral	11
6.	Testing Gravity Sewers for Acceptance	12
7.	Televised Inspection	14
8.	Adjustment of New and Existing Utility Structures to Grade	15
9.	Final Acceptance	16
10.	Private Side Sewers	17

III. SANITARY SEWER SYSTEMS - GENERAL STANDARDS

1. OBJECTIVE:

Section III is intended to present information and provide an outline of the minimum general standards required by City of Sequim for Developer constructed sanitary sewer facilities and improvements which are to be acquired and operated by the City.

2. GENERAL:

Detailed plans shall be submitted for the City's review, which provide the location, size, type and direction of flow of the proposed sewers and the connection with existing sewers. These plans shall be separate from Water Plans and shall conform to City Drafting Standards.

Project plans should have a horizontal scale of 1-inch = 50 feet and a vertical scale of 1-inch = 5 feet. Plan and profile views for any give section of gravity sewer or force main shall be drawn on the same sheet. Plans and profiles shall show:

- Locations of streets, right-of-ways, existing utilities, and sewers.

- Ground surface, pipe type, class and size, manhole stationing, invert and surface elevation at each manhole, and grade of sewer between adjacent manholes. Elevations shall be based on the NAVD 88 datum, with a conversion factor to the NGVD 29 datum noted on the plans, as further described in the General Drafting Standards. All manholes shall be numbered on the plans and correspondingly numbered on the profile. Where there is any question of the sewer being sufficiently deep to serve any residence, the elevation and location of the basement floor, if basements are served, shall be plotted on the profile of the sewer that is to serve the house in question. The Developer shall state that all sewers are sufficiently deep to serve adjacent basements, except where otherwise noted on the plans.

- All known existing structures, both above and below ground, which might interfere with the proposed construction, particularly water mains, gas mains, storm drains, overhead and underground power lines, telephones lines, and television cables.

- All utility easements.

- City Approval Block

- Details in scale drawings, which clearly show special sewer joints and cross-sections, and sewer appurtenances such as manholes and related items.

Construction of new sewer systems or extensions of existing systems will be allowed only if the existing receiving system is capable of supporting the added hydraulic load.

Collection and interceptor sewers shall be designed for the ultimate development of the tributary areas.

Sewer systems shall be designed and constructed to achieve total containment of sanitary wastes and maximum exclusion of infiltration and inflow.

Computations and other data used for design of the sewer system shall be submitted to the City for approval.

The sewage facilities shall be constructed in conformance with the current WSDOT *Standard Specifications for Road, Bridge, & Municipal Construction*, and current amendments thereto, revised as to form to make reference to Local Governments, and as modified by the City's requirements and standards.

Material and installation specifications shall contain appropriate requirements that have been established by the industry in its technical publications, such as ASTM, AWWA, WEF, and APWA standards. Requirements shall be set forth in the specifications for the pipe and methods of bedding and backfilling so as not to damage the pipe or its joints, impede cleaning operations and future tapping, nor create excessive side fill pressure or deformation of the pipe, nor seriously impair flow capacity.

All sewers shall be designed to prevent damage from superimposed loads. Proper allowance for loads on the sewer because of the width and depth of trench should be made. When standard-strength sewer pipe is not sufficient, extra-strength pipe shall be used.

After all other work is completed and before final acceptance, the entire roadway, including the roadbed, planting, sidewalk areas, shoulders, driveways, alley and side street approaches, slopes, ditches, utility trenches, and construction areas shall be neatly finished to the lines, grades and cross sections for a new roadway consistent with the original section.

3. GENERAL REQUIREMENTS:

1. Prior to construction, the sewer plans shall be reviewed and approved by the Department of Ecology with an affidavit stating such on file at the City's office, unless the review and approval is waived by Ecology.

2. Work shall be performed only by contractors experienced in laying public sewer mains.

3. Prior to any work being performed, the Developer shall contact the City's Public Works Department to set forth his proposed schedule.

4. All materials shall be new and undamaged.

5. Developer shall obtain approval of materials to be used from the City prior to ordering of materials.

6. Sewer mains shall be laid only in dedicated streets or in easements that have been granted to the City. A street is normally not considered until the plat, which created it, has been filed with the County Auditor.

7. All service connections to the City sewer system shall be a gravity connection. If service lines to structures or lots to be served are over 200 feet (not including panhandle), the Developer shall install an 8-inch sewer main within 100 feet of the farthest lot with a manhole at the end in an easement granted to the City. Parallel side sewers shall be separated by a minimum of 5 feet horizontally from each service and 10 feet from parallel water services.

8. All medical, health care, assisted living, retirement, or similar type lodging facility shall have wastewater grinders with sufficient capacity to handle the facility's peak hour flows inline with the side sewer and prior to connection to the City's sewer main.

9. The sewer mains shall run parallel to and 5 feet southerly or westerly of street centerline where possible. The sewer main shall maintain a minimum 10 foot horizontal separation from proposed or existing water mains.

10. The minimum slope for 8-inch gravity mains shall be 0.5 percent (except the minimum slope for dead end runs shall be 1.0 percent for 8-inch gravity mains). The minimum slope for 6-inch side sewer laterals shall be 2.0 percent and the maximum shall be 100 percent (45°).

11. The maximum distance between manholes shall be 400 feet.

12. Manholes shall be a minimum of 8 feet deep unless approved by the City.

13. Manholes greater than 20 feet deep shall be a minimum of 54 inches inside diameter.

14. Manholes greater than 25 feet deep should not be submitted for review without prior approval of deep design concept by the City. Deep designs will not be approved if alternative service can be provided with shallower gravity service, even if the property developing will have to delay development.

15. Manholes shall be provided with a 0.10 foot drop across the channel.

16. Terminating manholes, where sewer extension may occur, shall be provided with knock-outs and channeled accordingly.

17. Locking lids shall be provided for all manholes and all manhole lids shall have the word "sewer" cast integrally onto its surface.

18. All manholes shall be accessible to maintenance vehicles.

19. Manholes in easements shall be provided with a green fiberglass locator marker post with the footage to the manhole stenciled on with 2 inch letters.

20. All side sewer laterals shall be of the same material as the main line.

21. Front lot corners and a property line stake shall be staked prior to construction for side sewer tee location.

22. All side sewers shall be extended to the lowest property corner and located a minimum of 10 feet from the side lot line and extend a minimum of 15 feet past the street right-of-way line (or property line).

23. Side sewer connections allowed directly into manholes shall be constructed to match the sewer main crown and the manhole channeled accordingly.

24. All commercial, industrial or school food establishments shall be equipped with an approved grease interceptor located outside the building, as required by the City, prior to discharging to the sewer main.

Sizing to be confirmed by a Professional Engineer licensed in the State of Washington.

25. Provide the City a copy of the cut sheets prior to construction.

26. Pipe trenches shall not be backfilled until pipe and bedding installation has been inspected by the City.

27. Final air testing shall not be accepted until all underground utilities have been installed, compaction is completed, and the lines have been flushed, cleaned, deflection tested and television inspected.

28. Road restoration shall be per Clallam County, City and/or WSDOT design standards. The Developer shall become familiar with all County, City and State conditions of required permits, and shall adhere to all conditions and requirements.

29. Manhole rim and invert elevations shall be field verified after construction by the Developer's engineer(s) and the "as constructed" drawings individually stamped by a Professional Engineer licensed in the State of Washington which shall attest to the fact that the information is correct.

30. A minimum horizontal separation of 10 feet between sanitary sewers, reclaimed waterlines, and any existing potable waterlines, and a minimum vertical separation of 18 inches between the bottom of the drinking waterline and the crown of the sewer shall be maintained. The distance shall be measured edge to edge (i.e., from the outer diameter of the pipes).

31. When local conditions prevent the separations described above, a sewer may be laid closer than 10 feet horizontally or 18 inches vertically to a water line or reclaimed water line, provided that (1) it is laid in a separate trench from the water line; (2) when this vertical separation cannot be obtained, the sewer shall be constructed of materials and joints that are equivalent to water main standards of construction and shall be pressure tested to ensure water tightness prior to backfilling; (3) if sewers must be located in the same trench as a potable water line, both water lines and sewer lines shall be constructed with a casing pipe of pressure-rated pipe material designed to withstand a minimum static pressure of 150 psi; (4) and the water line shall be placed on a bench of undisturbed earth with the bottom of the water pipe at least 18 inches above the crown of

the sewer, and shall have at least 5 feet of horizontal separation at all times. Additional mitigation efforts may be required by the City.

32. Sewer lines crossing water lines at angles including perpendicular shall be laid below the waterlines to provide a separation of at least 18 inches between the invert of the waterline and the crown of the sewer.

33. For gravity sewers passing under water lines, the gravity sewers shall be (1) constructed of ductile iron or PVC; (2) aligned using the longest standard length from the manufacturer so that the crossing segment places joints equidistant from the crossing waterline; (3) encased in concrete or in a 1/4-inch-thick continuous steel, ductile iron, or pressure rated PVC pipe with a dimension ratio of 18 or less, with all voids pressure-grouted with sand-cement grout or bentonite.

34. For gravity sewers passing over water lines, these water lines shall be protected by providing (1) a vertical separation of at least 18 inches between the invert of the sewer and the crown of the waterline; (2) adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking of the waterlines; (3) the maximum distance possible between the water line and the joints of the sewer pipe; (4) the longest standard sewer pipe length available from the manufacturer; and (5) a waterline casing.

35. For pressure sewers under water lines, these pressure sewers shall be constructed only under water lines with ductile iron pipe or standard sewer pipe in a casing for a distance of at least 10 feet on each side of the crossing.

4. MATERIALS:

SEWER MAINS, LATERALS AND FORCE MAINS

Sewer mains to be installed shall be of material noted below:

Purpose	Material	Cover	Max. Slope
Gravity Sewer & Laterals	PVC	5'-18'	18%
	Ductile Iron	3'-5'	--
	Ductile Iron	≥ 18'	--
	PVC AWWA C900 Class 200	≥18'	18%
Force Mains	Ductile Iron	≥4'	--

PVC pipe shall be a minimum SDR 26 and be manufactured in accordance with ASTM D3034. The pipe and fittings shall be furnished with bells and spigots, which are integral with the pipe wall. Pipe joints shall use flexible elastomeric gaskets conforming to ASTM D3212. Nominal laying lengths shall be 20 feet and 13 feet. PVC C900 pipe shall conform to AWWA C900 and will be allowed in deep trench construction at the discretion of the City.

The ductile iron pipe shall conform to AWWA C151 and shall be thickness Class 52. Grade of iron shall be a minimum of 60-42-10. The pipe shall be polyethylene or epoxy lined to a nominal thickness of 40 mils. Minimum lining thickness shall be 30 mils. Products meeting the standard are US Pipe "Polylined," "Protecto 401," and American Pipe "Polyband," or approved equal. The exterior shall be coated with an asphaltic coating.

Each length shall be plainly marked with the manufacturer's identification, year cast, thickness, class of pipe and weight. The pipe shall be furnished with mechanical joint or push-on type joint, except where plans call for flanged ends. Joints shall conform to AWWA C111.

Restrained joint pipe shall be push-on joint pipe with FIELD LOK® or TR FLEX® gaskets as furnished by U.S. Pipe.

All pipe shall be jointed by the manufacturer's standard coupling, be all of one manufacturer, be carefully installed in complete compliance with the manufacturer's recommendations.

All fittings shall be short-bodied, ductile iron complying with AWWA C110 or C153 for 350 psi pressure rated mechanical joint fittings and 250 psi pressure rated flanged fittings. All fittings shall be polyethylene or epoxy lined per the ductile iron pipe specifications and either mechanical joint or flanged, as indicated on the Plans.

Fittings in areas requiring restrained joints shall be mechanical joint fittings with a mechanical joint restraint device. The mechanical joint restraint device shall have a working pressure of at least 250 psi with a minimum safety factor of 2:1 and shall be EBAA Iron, Inc., MEGALUG, Star Pipe Products, or approved equal.

All couplings shall be ductile iron mechanical joint sleeves.

The sewer pipe, unless otherwise approved by the City shall be laid upgrade from point of connection on the existing sewer or from a designated starting point. The sewer pipe shall be installed with the bell end forward or upgrade. When pipe laying is not in progress, the forward end of the pipe shall be kept tightly closed with an approved temporary plug. Wherever movable shoring

(steel box) is used in the ditch, pipe shall be restrained by use of a winch mounted in the downstream manhole and a line of sufficient strength threaded through the pipe and set tight before each move. Any indication that joints are not being held shall be sufficient reason for the City to require restraints, whether or not movable shoring is being used.

All gravity pipe shall be laid in straight lines and at uniform rate of grade between manholes. Variance from established line and grade shall not be greater than 1/2-inch, provided that such variation does not result in a level or reverse sloping invert; provided, also, that variation in the invert elevation between adjoining ends of pipe, due to non-concentricity of joining surface and pipe interior surfaces, does not exceed 1/64 of an inch per inch of pipe diameter, or 1/2-inch maximum. Any corrections required in line and grade shall be reviewed with the City and shall be made at the expense of the Developer.

All extensions, additions and revisions to the sewer system, unless otherwise indicated, shall be made with sewer pipe jointed by means of a flexible gasket, which shall be fabricated and installed in accordance with the manufacturer's specifications.

All joints shall be made up in strict compliance with the manufacturer's recommendations and all sewer pipe manufacture and handling shall meet or exceed the ASTM recommended specifications.

Pipe handling after the gasket has been affixed shall be carefully controlled to avoid disturbing the gasket and knocking it out of position, or loading it with dirt or other foreign material. Any gaskets so disturbed shall be removed, cleaned, relubricated if required, and replaced before the rejoining is attempted.

Care shall be taken to properly align the pipe before joints are entirely forced home. During insertion of the tongue or spigot, the pipe shall be partially supported by hand, sling or crane to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned. Since most flexible gasketed joints tend to creep apart when the end pipe is deflected and straightened, such movement shall be held to a minimum once the joint is home.

Sufficient pressure shall be applied in making the joint to assure that it is home, as described in the installation instructions provided by the pipe manufacturer. Sufficient restraint shall be applied to the line to assure that joints once home are held so, until fill material under and alongside the pipe has been sufficiently compacted. At the end of the work day, the last pipe laid shall be blocked in an effective way to prevent creep during "down time."

For the joining of dissimilar pipes suitable adapter couplings shall be used which have been approved by the City.

All gravity sewer pipe shall be bedded with 3/4-minus crushed gravel. The PVC pipe shall be bedded from a depth of 4-inches below the pipe to 12-inches above the pipe and ductile iron gravity sewer pipe shall be bedded from a depth of 4-inches below the pipe to the springline of the pipe. The bedding material shall extend across the full width of the trench and shall be compacted under the haunches of the pipe.

Special concrete bedding shall consist of a pipe cradle constructed of Portland cement concrete containing not less than four sacks of cement per cubic yard. Sand, gravel and water proportions are subject to approval by the City. Maximum aggregate size shall be 1-1/2 inches. Maximum slump shall be 4 inches. The bottom of the trench shall be fully compacted before the placement of pipe cradle. The Developer shall protect pipe against flotation and disturbing the horizontal alignment of the pipe during the pouring of the concrete.

Clay or Bentonite dams shall be installed across the trench and to the full depth of the granular material in all areas of steep slopes, stream crossings and wetland to prevent migration of water along the pipeline.

All backfill in roadway sections shall be placed and compacted in accordance with Clallam County, City and/or State requirements and copies of the compaction results shall be provided to the City. All backfill in easements shall be placed and compacted to a minimum of 90 percent of the Modified Proctor dry maximum density per ASTM D1557. Copies of compaction results for all sewer system trenches shall be provided to the City.

MANHOLES:

Manholes shall be of the offset type and shall be precast concrete sections with either a cast in place base, or a precast base made from a 3,000 psi structural concrete. Joints between precast wall sections shall be confined O-ring or as otherwise specified.

The minimum diameter for manholes shall be 48 inches to a depth of 20 feet, and 54-inches for depths of 20 feet and greater. The City may require the diameter to be increased beyond the minimum based on future needs.

For connections to existing systems, a concrete coring machine, suitable for this type of work, shall be utilized in making the connection. The existing manhole shall be rechanneled as required. The new pipe connection shall be plugged

(water tight) until the new pipe system has been installed and approved. The Developer shall be responsible for any existing defects in the existing manhole unless these defects are witnessed by a representative of the City prior to any work being performed to make the connection. The Contractor shall be required to remove any and all deleterious material in the existing manhole and downstream reaches as a result of this work.

Manholes located in easements or outside of paved areas shall have concrete collars with a minimum size of 48 inches diameter by 12-inches thick.

Manhole Sections

Manhole sections shall be placed and aligned so as to provide vertical sides and vertical alignment of the ladder steps. The completed manhole shall be rigid, true to dimension, and be water tight. Rough, uneven surfaces will not be permitted.

Manhole Steps and Ladders

Manhole steps shall be polypropylene, Lane International Corp. No. P13938 or equal.

Ladders shall be polypropylene Lane International Corp. or approved equal, and shall be compatible with steps.

Grade Adjustment

The manhole shall be set to provide not less than 14-inches or more than 26-inches of adjustment between the top of the cone or slab and the top of the manhole frame.

Masonry units (manhole adjusting rings) shall conform to the ASTM C2, Grade MA. The outside and inside of manhole adjusting rings and the joints of precast concrete sections shall be plastered and troweled smooth with 1/2 inch (minimum) of mortar in order to attain a watertight surface. No wood shall be used for adjustment.

Channels

Channels shall be made to conform accurately to the sewer grade and shall be brought together smoothly with well rounded junctions, satisfactory to the City. The channels shall be field poured after the inlet and outlet pipes have been laid and firmly grouted into place at the proper elevation. Allowances shall be made for a 0.1 foot drop in elevation across the manhole in the direction of flow.

Channel sides shall be carried up vertically from the invert to three-quarters of the diameter of the various pipes. The concrete shelf shall be warped evenly and sloped 3/8 inch per foot to drain. Rough, uneven surfaces will not be permitted. Channels shall be constructed to allow the installation and use of a mechanical plug or flow meter of the appropriate size.

Drop Manholes

Drop manholes require City approval and shall be constructed with outside drop(s). Approval will be limited to future extensions from deep sewers. Where extension from deep sewers is concurrent with deep sewer construction, drop manholes will not be allowed. Drop manholes shall, in all respects, be constructed as a standard manhole with the exception of the drop connection.

Lift Holes and Steel Loops

All lift holes shall be completely filled with expanding mortar, smoothed both inside and outside, to insure water tightness. All steel loops shall be removed, flush with the manhole wall. The stubs shall be covered with mortar and smoothed. Rough, uneven surfaces will not be permitted.

Frames and Covers:

Frames and covers shall be ductile iron. Castings shall be free of porosity, shrink cavities, cold shuts or cracks, or any surface defects, which would impair serviceability. Repair of defects by welding, or by the use of "smooth-on" or similar material, will not be permitted. Frames and covers shall be machine finished or ground on seating surfaces so as to assure non-rocking fit in any position and interchangeability of covers. Frames and covers shall be provided with three bolt locking lids. Rings and covers shall be positioned so one of the three locking bolts is located over the manhole steps and shall be adjusted to conform to the final finished surface grade of the street or easement to the satisfaction of the City. Manhole frames and covers shall be as manufactured by GMI Composites, Inc. lids and frames shall meet all minimum AASHTO and other regulatory requirements for the loading anticipated at the manhole location. Manhole hatches shall not be acceptable without prior approval by the City.

Manhole Marker Posts:

A fiberglass manhole marker post shall be located adjacent to all manholes located in easement areas. The marker post shall be green in color, 3.75 inches wide (flat), 60 inches long and furnished with a 3-inch by 3-inch high intensity white reflector (250 Candle Power) and a flexible anchor barb. Each post shall include the following decal: "Caution Sewer Manhole. Before digging, Call

1-800-424-5555, Utility Underground Location Center." Manhole markers shall be Carsonite Utility Marker CUM 375.

The marker posts shall be set so as to leave 36 inches of the post exposed above grade.

Distance from the marker to the manhole shall be stenciled on the marker with 2-inch letters.

Aggregate Materials:

All aggregate materials for pipe laying, pipe bedding, trench filling, or any other application involving sanitary or storm drain utility services shall meet the specifications outlined in the most recent version of the Washington State Department of Transportation (WSDOT) Standard Specifications for Road, Bridge, and Municipal Construction.

5. SIDE SEWER LATERAL:

A side sewer lateral is considered to be that portion of a sewer line that will be constructed between a main sewer line and a property line or easement limit line.

All applicable specifications given herein for sewer construction shall be held to apply to side sewer laterals.

Side sewers shall be for a single connection only and be a minimum 6-inch diameter pipe. Side sewers shall be connected to the tee, provided in the sewer main where such is available, utilizing approved fittings or adapters. The side sewer shall rise at a maximum of 45 degrees and a minimum of 2 percent, from the sewer main.

Where there are no basements, the minimum side sewer depth shall be 6 feet below existing curb line and 5 feet below ground at the property line, except where existing improvements, proposed improvements or topography may dictate additional depth. The elevations of the side sewer connections shall be of sufficient depth to serve all existing and potential future basements.

Each 6 inch side sewer service shall be provided with a 12 foot long 2 x 4 wooden post, which extends from the invert of the end of the 6 inch pipe to above the existing ground. The exposed area of this post shall be painted white and shall have stenciled thereon in 2 inch letters (black paint) "SEWER" and shall also indicate the total length of the 2 x 4. A 12 gauge (minimum) wire shall be wrapped around and stapled the full length of the 2 x 4.

Where no tee or wye is provided or available, connection shall be made by machine-made tap and saddle. Inserta Tee, Fowler Manufacturing Company or approved equal may be utilized on concrete pipe only. Romac Style "CB" Sewer Saddle shall be utilized on PVC pipe.

The maximum bend permissible at any one fitting shall not exceed 45 degrees. The maximum bend of any combination of two adjacent fittings shall not exceed 45 degrees (one-eighth bend) unless straight pipe of not less than 3 feet in length is installed between such adjacent fittings, or unless one of the fittings is a wye branch with a cleanout provided on the straight leg.

Standing side sewers shall be constructed only with pre-approval of the City. Standing side sewers may be required, or allowed, at the sole discretion of the City.

6. TESTING GRAVITY SEWERS FOR ACCEPTANCE:

The Developer shall furnish all facilities and personnel for conducting tests. Methods other than Low Pressure Air Test shall be subject to the approval of the City.

Preparation for Testing for Leakage

The Developer shall be required, prior to testing, to clean and flush all gravity sewer lines with an approved cleaning ball and clean water. The completed gravity sewer, including side sewer stubs, after completion of backfill and cleaning shall be televised. This will be permitted prior to paving. The sewer shall then be tested by the low pressure air test method and/or an infiltration test but only after all utilities are installed and the project paved. Except, however, that in certain conditions an exfiltration test may be required by the City.

The first section of pipe not less than 300 feet in length installed by each crew shall be tested, in order to qualify the crew and/or the material. A successful installation of this first section shall be a prerequisite to further pipe installation by the crew. At the Developer's option, crew and/or material qualification testing may be performed at any time during the construction process after at least 2-feet of backfill has been placed over the pipe.

Low Pressure Air Test

The sewer pipe shall be tested for leaks through the use of air (unless exfiltration test is approved) in the following manner:

Following the pipe cleaning, utility installation, and paving, the pipe installation shall be tested with low pressure air. Air shall be slowly supplied to the plugged pipe installation until the internal air pressure reaches 4.0 pounds per square inch (psi) greater than the average back pressure of any ground water that may submerge the pipe. At least two minutes shall be allowed for temperature stabilization before proceeding further.

The rate of air loss shall then be determined by measuring the time interval required for the internal pressure to decrease from 3.5 to 2.5 pounds per square inch (psi) while maintaining the stipulated pressure greater than the pipe section's average adjacent groundwater back pressure.

The pipeline shall be considered acceptable if the total rate of air loss from any section tested in its entirety between manholes, cleanouts or pipe ends does not exceed the following table:

Length of 6" Pipe (ft)

Length of 8" Pipe (ft)	0	50	100	150	200	250	300	350	400
0	0	0:40	1:20	1:58	2:38	3:18	3:58	4:38	5:16
50	1:10	1:50	2:30	3:10	3:48	4:28	5:08	5:48	5:56
100	2:20	3:00	3:40	4:20	5:00	5:38	6:14	6:12	6:08
150	3:32	4:10	4:50	5:30	6:10	6:30	6:26	6:22	6:18
200	4:42	5:22	6:00	6:40	6:44	6:38	6:34	6:30	6:26
250	5:52	6:32	6:48	6:58	6:50	6:44	6:40	6:36	6:32
300	7:02	7:20	7:10	7:02	6:56	6:50	6:44	6:40	6:36
350	7:34	7:22	7:14	7:06	7:00	6:54	6:50	6:44	6:42
400	7:34	7:24	7:16	7:08	7:02	6:58	6:52	6:48	6:44

Test time in minutes and seconds

Test times will be provided by the Engineer for combinations other than 8-inch mains and 6-inch laterals.

If the pipe installation fails to meet these requirements, the Developer shall determine at his own expense the source or sources of leakage, and shall repair (if the extent and type of repairs proposed by the Developer appear reasonable to the City) or replace all defective materials or workmanship. The completed pipe installation shall meet the requirements of this low pressure air test or the alternative water exfiltration test before being considered for acceptance.

Plugs used to close the sewer pipe for the air test shall be securely braced to prevent the unintentional release of a plug. Gauges, air piping manifolds and valves shall be located at the top of the ground. No one shall be permitted to enter a manhole where a plugged pipe is under pressure. Air testing apparatus

shall be equipped with a pressure release device such as a rupture disk or a pressure relief valve designed to relieve pressure on the pipe under test at 6 psi.

Deflection Test

Deflection tests shall be performed on all ASTM D3034 PVC gravity sewer mains by pulling a mandrel through the pipe. The allowable deflection test limit shall be 5.0 percent of the base inside diameter in accordance with APWA test procedures and the nominal mandrel size shown in the following table.

Nominal Pipe Size (in.)	Base Inside Diameter (in.)	Mandrel Size, Diameter (in.)
6	5.74	5.45
8	7.67	7.28
10	9.56	9.08
12	11.36	10.79

Deflection testing is not required for C-900 PVC or ductile iron pipe or pipe diameters 15-inch and greater.

The sewer lines shall be thoroughly cleaned prior to the deflection test.

7. TELEVISED INSPECTION:

After the gravity sewer lines have been cleaned, flushed and manhole channeled, the Developer shall provide a complete televised inspection.

The Developer shall perform a complete televised inspection of the sewer pipe and appurtenances and shall provide to the City, a DVD color audio-visual recording of the inspections together with a written log of the television inspection. The camera shall be a pan and tilt type equipped with adequate light and focusing to allow inspection of sewer main, side sewers and full circumference inspection of main line joints and fittings. The City shall determine if the quality of the televising is acceptable.

Immediately prior to the televised inspection, the Developer shall run water through each sewer line for 5 to 10 minutes to provide water for detection of any adverse grade sections visible by the presence of ponded water. The camera shall be stopped periodically at the ponded areas and the depth of water shall be measured with a ball of known diameter on the pull line. During the inspection, all tees and other fittings shall be logged as to exact location within 1 percent maximum error in measurement, wherein accuracy is checked with various fittings and the terminating manhole.

The City shall be notified 48 hours prior to any television inspection and this work shall be performed on a schedule to allow the City to witness the inspection.

Any defects in material or installation identified by the television inspection shall be repaired as required by the City at the Developer's expense.

8. ADJUSTMENT OF NEW AND EXISTING UTILITY STRUCTURES TO GRADE

This work consists of constructing and/or adjusting all new and existing utility structures encountered on the project to finished grade.

Asphalt Concrete Paving

On asphalt concrete paving projects, the manholes shall not be adjusted until the pavement is completed, at which time the center of each manhole lid shall be relocated from references previously established by the Developer. The pavement shall be cut as further described and base material removed to permit removal of the cover. The manhole shall then be brought to proper grade.

Prior to commencing adjustment, a plywood and visqueen cover as approved by the City shall be placed over the manhole base and channel to protect them from debris.

The asphalt concrete pavement shall be cut and removed to a neat circle, the diameter of which shall not exceed 48 inches or 14 inches from the outside diameter of the ductile iron frame, whichever is smaller. The ductile iron frame shall be brought up to desired grade, which shall conform to surrounding road surface.

Adjustment to desired grade shall be made with the use of concrete adjustment rings or bricks. No cast or ductile iron adjustment rings will be allowed. An approved class of mortar (one part cement to two parts of plaster sand) shall be placed between adjustment rings or bricks and ductile iron frame to completely fill all voids and to provide a watertight seal. No rough or uneven surfaces will be permitted inside or out. Adjustment rings or brick shall be placed and aligned so as to provide vertical sides and vertical alignment of manhole steps and ladder. Adjustments in excess of 26 inches of depth of the 24 inch manhole neck shall require manhole section rings to raise the eccentric cone to within the adjustment ring tolerances.

Check manhole specifications for minimum and maximum manhole adjustment and step requirements. Special care shall be exercised in all operations in order not to damage the manhole, frames and lids or other existing facilities.

The annular spaces of the manhole frames shall be filled with 5/8-inch minus crushed gravel and compacted with hand tamper to within 2-inches of the top of the frame. Asphalt concrete patching shall not be carried out during wet ground conditions or when air temperature is below 50 degrees F. Asphalt concrete mix shall be at required temperature when placed. Before making the asphalt concrete repair, the edges of the existing asphalt concrete pavement and the outer edge of the casting shall be tack coated with hot asphalt cement. The remaining 2 inches shall then be filled with Class B asphalt concrete and compacted with hand tampers and a patching roller.

The completed patch shall match the existing paved surface for texture, density and uniformity of grade. The joint between the patch and the existing pavement shall then be carefully painted with hot asphalt cement or asphalt emulsion and shall be immediately covered with dry paving sand before asphalt cement solidifies. All debris such as asphalt pavement, cement bags, etc., shall be removed and disposed of by Developer.

Prior to acceptance of a project, manholes shall be cleaned of all debris and foreign material. All manhole steps and ladders shall be cleaned free of grout. Any damage occurring to the existing facilities due to the Developer's operations shall be repaired at his own expense.

Adjustment of Manholes in Easements

Manholes in easement areas shall be adjusted to ensure drainage away from the manhole frame and cover. Pour a 48-inch-diameter by 12-inch-thick concrete collar around the manhole frame and cover.

Adjustment of Monuments

Monuments and monument castings shall be adjusted to grade in the same manner as for manholes.

Adjustment of Valve Box Castings

Adjustment of valve box castings shall be made in the same manner as for manholes.

9. FINAL ACCEPTANCE:

Prior to final inspection, all pipelines shall be flushed and cleaned and all debris removed.

At the City's discretion, gravity sewer lines shall be inspected for line and grade by checking each section between manholes for alignment. A full circle of light shall be seen by looking through the pipe at a light held in the manhole at the opposite end of the section of sewer line being inspected. Any corrections required in line and grade shall be made at the expense of the Developer. Visual confirmation will require confined space entry compliance and will normally be considered where settlement is suspected.

10. PRIVATE SIDE SEWERS:

Private side sewers are the extension of side sewer laterals located outside of the public rights-of-way or easements granted to the City.

1. All sewer service connections to City facilities shall be gravity service.

2. The sewer pipe in the street right-of-way and City easements shall be 6-inch diameter, and shall have a 2 percent minimum grade. Construction in street rights-of-way shall be performed by a licensed side sewer contractor and requires a right-of-way use permit.

3. Private side sewer pipe for residential property shall be 4-inches or larger. Side sewer pipe for duplexes, multi-family, industrial, commercial, etc., shall be 6-inches or larger. Pipe material shall be ductile iron or PVC per ASTM D3034, and shall be installed at 2 percent minimum grade (1/4 inch fall per foot). Construction on private property may be performed by owner, but requires a permit.

4. Pipe shall be bedded with 3/4-minus crushed gravel or clean free draining sand.

5. Side sewer shall be inspected by the City prior to backfilling. Side sewer shall be plugged and tested in the presence of the City Inspector by filling with water. Leakage rate shall not exceed 0.31 gal./hr. for 4 inch pipe and 0.47 gal./hr. for 6 inch pipe, per 100 feet of pipe.

6. On private property, minimum cover shall be 18-inches over top of pipe from a point 30 inches out from house and continuing to the connection with the City sewer system.

7. Parallel water and sewer lines shall be 10 feet apart horizontally wherever possible and have a vertical separation of 18-inches if a vertical crossing is necessary.

8. No more than 100 feet is allowed between cleanouts. Cleanouts are required for bends equal to or greater than 90 degrees. Cleanout shall be a plugged tee or plugged wye lateral.

9. All pipe joints shall be rubber gasket type.

10. When required, "grease interceptor" to be outside the building and be of a size and type certified by a professional engineer licensed in the State of Washington and reviewed by the City.

11. Backwater valves are required on all side sewers where potential occurs for flow to back into the private service. These valves shall be installed in a riser pipe, meter box, vault or manhole as necessary to allow access for maintenance.

12. No secondary connections, such as recreational vehicle dumps, shall be made to the side sewer without approval of the City.

SECTION IV

SEWAGE LIFT STATIONS

General Standards

SEWAGE LIFT STATIONS

TABLE OF CONTENTS

		Page
1.	Objective	1
2.	Design Calculations	1
3.	Location	2
4.	Lift Station	3
5.	Wet Well	6
6.	Controls	8
7.	Electrical Service/Controls & Telemetry System	8
8.	Auxiliary Power System	14
9.	Force Main	17
10.	Testing Force Main	18
11.	Lift Station Test Program	19

IV. SEWAGE LIFT STATIONS - GENERAL STANDARDS

1. OBJECTIVE:

Section IV is intended to present information and provide an outline of the minimum general standards to be accomplished in planning a sewage lift station installation within the City of Sequim service area.

The Developer shall submit to the City for review and approval, complete sewage lift station plans and design which provide for the lift station, electrical service, SCADA controls, and auxiliary generator/transfer switch together with all accessories for a complete, automatically operating installation.

Design material and drawings shall provide all civil, mechanical and electrical details and align with all applicable codes and regulations, and good engineering practice.

2. DESIGN CALCULATIONS:

The Developer shall perform a study and make the determination to assure that the lift station installation is sized to serve the overall sewage flows generated within the potential service area. The flow study shall include the Developer's plat boundary area as well as adjacent and future service areas. The service areas shall be the areas within that which could be served by the installation of the lift station(s).

The station's design flow capacity shall be based on an average daily per capita flow with related peaking factors and inflow/infiltration allowances.

Documentation of present and future service area flow rates for lift station size and capacity determination shall be provided to the City.

The effects of the minimum flow conditions shall be estimated to be sure that retention of the sewage in the wet well will not create a nuisance and that pumping equipment will not operate too infrequently. The wet well shall be sized to limit pump cycles to a maximum of four cycles per hour per pump, with two pumps alternating at pump design capacity.

Lift station capacity shall meet the maximum rate of flow expected. The capacity of the receiving sewer shall exceed the flow expected. At least two pumping units shall be provided at each lift station installation. The pump shall have sufficient capacity and capability to efficiently handle the peak design flow with one pump out of service and to ensure a minimum velocity of 3 feet per second in the force main.

The force main shall be sized for a minimum velocity of 3 feet per second and a maximum of 8 feet per second. The minimum diameter of the force main shall be 6 inches.

Three copies of the Design Calculations shall be submitted to the City for review. As a minimum, the report shall include.

1. Project description
2. Projected flows
3. Connection point with downstream capacity
4. Wet well sizing
5. Run time calculation
6. Run time calculation and cycle time
7. Pump station head calculation
8. Pump selection
9. Force main size, length and material
10. Electrical load study
11. Generator sizing
12. Odor potential calculations
13. Wet well buoyancy calculations
14. Force main surge calculations

3. LOCATION:

The Developer shall furnish a site layout for the lift station installation.

The lift station shall be located as far as practicable from present or proposed built-up residential areas, and an asphalt concrete access road shall be provided. Sites for sewage lift stations shall be of sufficient size for future expansion or addition, if applicable.

The easement for the lift station site shall be submitted to the City for review prior to construction of the lift station. Lift station sites not located within the plat boundary shall be deeded to the City.

The Developer shall coordinate electrical power required to the site with the electrical utility.

As a minimum, the site shall provide for the following:

1. Lift station
2. Auxiliary power, including automatic transfer switch
3. Electrical
4. Telemetry

5. 1-inch water service with reduced pressure backflow preventor and hose bib installed in an above ground hot box enclosure on concrete. Furnish 50 feet of 3/4-inch heavy-duty rubber hose.
6. Odor control, as applicable for location and capacity.
7. Cuts and fills to provide level site for maintenance.
8. Asphalt concrete pavement for access and maintenance areas.
9. Single entry to wet well from recessed entry manhole (rock catcher) per City Standard Drawing.
10. 6-foot-high black powder coated frame and posts together with black vinyl chain link fence with vertical vinyl slats in-laid for screening and three strands of barbed wire on top of the fence, enclosing the site with 3 foot wide access main gate and separate vehicle access gate 12 foot wide minimum opening. Fence to be located in the asphalt, 6 inches from the edge.
11. Safety system mount.

4. LIFT STATION:

GENERAL

The sewage lift station shall be Smith & Loveless, custom series buried, dry-well-type or wet-well mounted as approved by the City. Construction shall be in compliance with OSHA, UL, ASTM, NEC, WAC, and other applicable codes and regulations. The station shall be designed, constructed and anchored to comply with current IBC standards.

The lift station shall have, as a minimum, two sewage pumps. The pumps shall have sufficient capacity and capability to efficiently handle the peak design flow with one pump and to ensure a minimum velocity of 3 feet per second in the force main. Design calculations and pump curves indicating the same shall be provided with the submittal information.

The rotor (motor) assembly shall be dynamically balanced. Add the impeller to the rotor assembly and dynamically rebalance the assembly, all to NEMA specifications for the operating RPM condition and submit documentation to the City.

The sewage lift station supplier shall check the station during installation to determine if the installation is correct. Written confirmation of each visit and recommendations shall be provided to the City.

The sewage lift station supplier shall provide a minimum of 8 hours of training for City personnel at the station site during startup.

The sewage lift station supplier shall provide three complete hard copies and one electronic copy of maintenance and operation material to the City.

A surge valve shall be installed on the force main to discharge into a manhole or the wet well if high head conditions will occur as determined by the City.

CUSTOM SERIES BURIED STATION (WET WELL/DRY WELL)

The station shall be a Smith & Loveless Custom Series station complying with the latest edition of Smith & Loveless standard specifications and with the City Standards.

The station shall be a minimum of 8-feet in diameter and the pump motor assembly and piping shall be City standard dark green in color.

The above-ground entrance hatch shall be 44-inches minimum inside diameter with a steel cover, lockable to City standards. In all areas, lighting and ventilation shall be provided to meet the requirements for a confined space entry.

The station shall be provided with a minimum of four magnesium anodes. The test box for cathodic protection shall be mounted on the electrical rack. See V-LS3.

Each motor starter shall have its own independent phase loss relay wired directly to the starter's "enable" circuit and to the RTU for alarming.

As a minimum, the station shall include the following:

1. Vertical close-coupled, motor driven, non-clog pumps.
2. Resilient seat gate valves.
3. Internal piping.
4. Central control panel with circuit breakers and intrinsically safe circuits.
5. Motor starters.
6. Shelf mounted air compressor (2) bubbler system for automatic pumping level controls.
7. Lighting.
8. Sump pump with dedicated simplex, gray, 20A, non-GFCI receptacle in cast aluminum weatherproof box with full in-service cover.
9. Ventilating blower.
10. Blower timer.
11. Dehumidifier.
12. All internal wiring.
13. Protection against corrosion.
14. Station flooding alarm.
15. Operator in trouble emergency button.

16. Extended warranty – 24 months from start-up or 30 months from time of shipment which ever is first.
17. Document certifying the lift station is in compliance with the NEC.
18. Convenience receptacles, white, duplex, 20A, GFCI, in cast aluminum weatherproof boxes with full in-service covers.
19. Spare parts each pump:
    - Replacement pump shaft seal
    - Filter element for the seal filters
    - Volute gaskets
20. Touch up paint kit.
21. Ductile iron piping between wet well and station.
22. Common reinforced concrete base slab for station and wet well.
23. 316 stainless steel sump pump piping from the sump pump to the wet well with check valve and unions. Piping to go up dry well entry and discharge through the connection opening in the entry tube.
24. Air bubbler line to go up dry well entry, above ground level, back down and discharge through connection openings in entry tube. Air bubbler line shall be 316 stainless steel tubing in the station and 3/4-inch diameter 316 stainless steel pipe from the entry tube to a wet well mounted tee with 3/8-inch stainless steel pipe extended down from the wet well mounted tee to 6 inches above the inlet of the suction pipes.

WET WELL MOUNTED STATION

The station shall be Smith & Loveless wet well mounted vacuum primed station complying with the latest edition of Smith & Loveless standard specifications and with the City Standards.

Each motor starter shall have its own independent phase loss relay wired directly to the starter's "enable" circuit and to the remote terminal unit (RTU) for alarming.

As a minimum, the station shall include the following:

1. Vertical, close-coupled, motor driven, vacuum-primed, non-clog pumps.
2. Resilient seat gate valves.
3. Internal piping.
4. Central control panel with circuit breakers and intrinsically safe circuits.
5. Motor starters.
6. Shelf mounted air compressor (2) bubbler system automatic pump level controls. Shelf to be mounted at the same level or higher as the top of the station side wall.
7. Heater.
8. Ventilating blower.

9. Priming pumps and appurtenances.
10. All internal wiring.
11. Discharge pipe welded to the base plate and to be flanged below.
12. Bubbler piping above the base plate, plastic tubing, and below the base plate to be 3/8-inch-diameter 304 SS pipe extended down to 6 inches above the inlet of the suction pipes.
13. Lid to be 2 piece design with hydraulic hood assist.
14. Paint station with dark green epoxy.
15. Shelf mounted vacuum pumps located at the same level or higher as the top of the station side wall.
16. Extended warranty – 24 months from start-up or 30 months from time of shipment whichever is first.
17. Document certifying the lift station is in compliance with the NEC.
18. Convenience receptacles, white, duplex, 20A, GFCI, in cast aluminum weatherproof boxes with full in-service covers.
19. 3/4-inch conduit connection in electric panel for connection to the telemetry sub panel.
20. Spare parts each pump:
    - Replacement pump shaft seal
    - Volute gaskets
21. Touch up paint kit.
22. C900 PVC suction pipes.
23. Flexible restrained coupling (Romac Adaptor RFCA) to connect station to suction pipes.

MOTORS

The pump and motor shafts shall be the maximum diameter available for these units.

Pump motors shall be 3-phase, 60-cycle, 480-voltage inverter rated, TEFC. Motors 40 hp and larger shall be furnished with soft start or variable frequency drives (VFDs). VFDs shall comply with the latest ANSI, IEEE, and NEC codes. VFD load circuits from starter to motor shall be shielded power cables in RGS conduits.

The motors shall have 1.15 service factor and be non-overloading for the full range of the curve unless otherwise approved by the City.

5. WET WELL:

GENERAL

The wet well shall be precast concrete manhole sections. Joints between precast wall sections shall be confined O-ring or as otherwise approved. The poured in

place slab top shall be designed with the wet well to exceed buoyant forces and shall have a cast in place flush mount safety system sleeve per City Standard Detail.

The wet well shall be provided with polypropylene manhole steps as specified for manholes.

The wet well shall be checked to ensure all joints are watertight to prevent infiltration and exfiltration of the wet well.

The wet well floor, walls and underside of the top shall be coated to comply with the following:

Surface Preparation:

Allow 28 days cure time for concrete. Sweep blast to provide a surface profile. Surface shall be clean, dry and free of contaminants.

Exterior Surfaces:

The exterior surface of the wet well shall be coated with 30 mils minimum of coal tar epoxy.

Interior Surfaces:

- **Filler and Surfacer:** Tnemec Series 218 Filler and Surfacer. Applied as needed. After the application of the prime coat, the bugholes and surface voids shall be filled to ensure that the finish coat is monolithic and pinhole free.

- **Finish:** Tnemec Series 435 Perma-Glaze Applied in two coats at 15 mils dry film thickness each. Color light gray.

- **Total System:** 30 mils dry film thickness.

CUSTOM SERIES BURIED STATION

The wet well shall be a minimum of 8-feet in diameter. The wet well shall provide for the volute of the pumps to be fully submerged.

The wet well shall be of pre-cast concrete construction with flat slab cover and 4 x 6 (2 door) hatch for access. The flat slab concrete cover shall be provided with a 4-inch vent, which is "hooked and screened."

WET WELL MOUNTED STATION

The wet well shall be a minimum of 8-feet in diameter.

6. CONTROLS:

The control panel shall include:

1. Main disconnect.
2. Panel mounted running light for each pump.
3. Panel mounted ammeter for each pump to read percentage of load.
4. Panel mounted running time meter for each pump.
5. Panel mounted Cutler Hammer HOA switches for each pump.
6. Mounting bracket for telemetry sub panel in station (size: 13-1/2" L x 10" W x 6-1/2" Deep).
7. Local/Remote contact for the following alarms:
   a) Low Level
   b) High Level
   c) Power/Phase Failure (single & 3-phase)
   d) Pump Failure
   e) High Water (dry well)
   f) Pump On
   g) Intrusion
8. Panel mounted wet well gauge. Minimum 2.5-inch dial and read for depth of wet well in inches (Model Marsh Bellofram No. G 22 687).
9. Phase monitor to protect the pump motors from single-phase reversal and low voltage.
10. Discharge check valve limit switches (each).
11. Pump alternator, each cycle.
12. High water float pump control.

7. ELECTRICAL SERVICE/CONTROLS & TELEMETRY SYSTEM:

GENERAL

Codes and regulations exist at the federal, state, and local level dictating minimum acceptable requirements for electrical systems. The following standards shall be used as a basis for design and review.

1. National Electric Code (NEC)
2. Occupational Safety & Health Act (OSHA)
3. State & Local Building Codes
4. National Electrical Code (NESC)
5. National Electrical Manufacturers Association (NEMA)
6. Underwriters' Laboratory (UL)

7. Insulated Power Conductor Engineering Association (IPCEA)
8. American National Standards Institute (ANSI)
9. Institute of Electrical & Electronic Engineers (IEEE)

ELECTRICAL SERVICE

The local electric utility will be the primary source of electrical power. The Developer shall ascertain proper coordination between the nominal secondary delivery voltage supplied by Clallam County and the connection to the lift station equipment. The electrical service shall be 480/277V 4-wire, 3-phase, 60 hertz, with a solid neutral terminal at the disconnect or as may otherwise be required by Clallam County. This shall be confirmed with the Clallam County and confirmed by the suppliers.

All installation shall be approved by Clallam County and shall be in conformance with the NEC (current issue) UL, OSHA and County and State electrical codes.

The City shall be furnished with a certificate of final inspection by the inspecting agency.

All wire shall be stranded copper.

All exposed conduit shall be rigid galvanized. All underground conduit shall be PVC.

All underground conduits shall be covered with a strip of yellow polyethylene tape placed 6-inches below finished grade and directly above the conduit.

All conduit shall have a minimum of 24 inches of cover.

Instrumentation conduits, elbows and fittings shall be RGS over their entire length.

All underground RGS conduits, elbows, and fittings shall be coated with 20 mils (minimum) of PVC coating or a half-lapped wrap of Scotchwrap No. 51. See V-LS4.

Heating strips shall be provided for outside electrical enclosures.

A service entrance shall be provided with a pedestal on which shall be mounted, as a minimum, the following equipment:

1. Meter and meter can (as required by the County)

2. Meter C.T.S. (as required by the City)

3. Main disconnect SUSE-rated circuit breaker in a NEMA 3R, enclosure, with padlock to City standards.

4. Service voltage shall be 480/277 volts, 3 phase, 4-wire, except as required by Clallam County.

5. Single phase services shall be 240/120 volt, 3 wire. Panels shall conform with NEMA 3R.

6. A 120-volt duplex in NEMA 3R enclosure with padlock to City standards on the electrical rack.

7. Ground rod and connector wire in conduit to NEC standards.

8. Mount equipment per Standard Detail V-LS3

9. Provide a complete electrical plan set including the following minimum documents:

   a) Electrical plan view showing equipment and interconnecting conduits
   b) A cable and conduit schedule
   c) A one-line diagram
   d) Motor starter control schematics
   e) Panelboard schedule
   f) Main control panel schematics
   g) PLC I/O tables
   h) Associated electrical details

10. The City shall be provided with a complete reproducible set of as-constructed plans and details showing final location of all equipment, conduit and wire.

CONTROLS

Control and instrument system plans shall thoroughly and completely depict system design. The plans, in conjunction with the specifications, shall define the type of control system, the type of components in the system, set points and the interface between the instrumentation and control system and the lift station system. To accomplish this, the control and instrument plan(s) shall include, as a minimum, the following:

1. Control and instrumentation system legend and general notes

2. Control, instrumentation and distribution diagram

3. Plans showing location of all control, instrument, and distribution system equipment and components, both electrical and pneumatic

4. All equipment and installation details

The power, control and instrumentation systems shall be designed with both operational reliability and maintainability. Use standard products wherever possible.

Electrical equipment and devices shall be connected using separate power, control, and instrumentation conduits. Electrical gutters or fabricated raceways shall not be used.

All components within the lift station system, including both internally and face-mounted instruments and devices, shall be clearly identified with phenolic nameplates of black background with white letters reverse engraved from the backside (smooth front surface).

Intrinsically safe electrical circuits shall be installed in the main control panel in compliance with NEC, not in the motor starters.

All wiring between cabinet, equipment and components shall be labeled and color coded where applicable.

All pump motors shall have an independent lockable circuit breaker located within the lift station and the lift station shall have a lockable main circuit breaker located outside the lift station.

Lead and lag pump functionality shall alternate between pumps on each cycle change.

The pump controls shall be air bubbler type with two compressors alternating on timer control, and shall provide for both pumps to operate at high water conditions. The control elevations shall be indicated on the plans, i.e., on-off, first pump on, second pump on, and high water alarm. The air compressors shall not be located in electrical cabinets or enclosures.

The wet well shall be equipped with a high water redundant float to override the bubbler pump control and start the pumps and send high wet well level alarm.

A complete set of spare fuses shall be provided for all fused equipment.

TELEMETRY

The City's telemetry system utilizes Zetron 1716 RTUs for SCADA functions related to the wastewater collection systems. The RTUs report to a master unit at the City's office. The master unit communicates with a personal computer running Wonderware *Intouch* software to allow Supervisory Control and Data Acquisition functions to take place.

The RTUs shall be provided in enclosures with auxiliary equipment to facilitate connection of external signals to the RTU, and to monitor voltage, intrusion, and similar status signals. Communication with the Zetron 1700 MTU shall be via leased telephone lines to the City's office.

For each new lift station, the Developer shall provide a Zetron 1716 RTU (with Modbus option, accumulator/pulse counter access and battery backup) along with an enclosure, power supply, relays, surge protection devices for power and telephone lines, and other auxiliary devices as required for proper operation of the system. Typical discrete inputs for a station include:

1. Utility Power Fail
2. Three Phase Power Fail (phase reversal, phase imbalance, phase loss, undervoltage, and overvoltage)
3. Generator Run
4. Generator Fail
5. ATS in Standby
6. Intrusion Alarm
7. Wet Well High Level
8. Wet Well Low Level
9. Pump No. 1 Run
10. Pump No. 2 Run
11. Pump No. 1 Fail
12. Pump No. 2 Fail
    (Note: Additional pump run and fail signals are required for each pump when the station has more than two pumps.)
13. Station Flood (Buried Station)
14. Ventilation Fail (Buried Station)
15. Operator in Trouble (Buried Station)

Typical discrete outputs include:

1. Start Generator (with an interposing relay driven by the RTU in the telemetry subpanel)

Typical analog inputs include:

1. Pump No. 1 Amperes
2. Pump No. 2 Amperes
3. Wet Well Level

Provisions shall also be made for additional I/O signals by providing terminals from each I/O point on the RTU to terminals within the telemetry panel.

The telemetry panel and all items contained therein shall be provided by Systems Interface, Inc., (425) 481-1225.

The Developer shall also be responsible for correct set-up of the RTU with respect to the existing system configuration. This includes coordinating configuration parameters such as:

1. RTU addressing
2. Master unit configuration
3. RTU configuration,
4. I/O point configuration (enable/disable format)
5. Debounce time
6. NO/NC inputs
7. Percent change reporting
8. High/low alarm limits
9. Accumulator sampling rates
10. Momentary/latched outputs
11. Signal adjustments (receive gain, transmit gain).
12. Rebalancing of the City's dedicated telemetry circuit.

The Developer shall coordinate with the telephone utility and the City for obtaining proper telephone service to the site. The Developer shall be responsible for obtaining, installing, and starting up the RTU for the new lift station. The Developer shall coordinate obtaining, installing and starting up the RTU with the City to ensure that the station is properly configured and functions correctly in conjunction with the existing system.

All major components, including relays, timers, and power supplies shall be identified using phenolic or vilam engraved labels.

Provide a 600 ohm impedance matching transformer for the telephone line, per Zetron's recommendations.

A line (surge) protector unit shall be provided for the telemetry equipment. The unit shall protect the equipment from transient and electrical surges on the telephone line. Protection shall include line fuses and clamps for voltages over

25 volts, gas tubes shall be provided as an integral part of the lighting protection unit.

8. AUXILIARY POWER SYSTEM:

GENERAL

Backup power generation equipment shall be provided at the lift station site, which will operate the lift station in the event of a commercial power outage.

The backup system shall be designed with capacity and rating to safely start and operate the entire connected lift station load, including all pumps and ancillary loads unless otherwise approved by the City. All applicable codes shall be followed, including NEC and UPC.

The generator set shall be complete in every respect and shall include, but not be limited to the following:

1. Generator, control panel & circuit breaker.
2. Engine, radiator & exhaust system.
3. Fuel tank. (Capacity for 24 hours full load plus 25%.)
4. Generator set enclosure providing noise attenuation in compliance with Washington State Administrative Code, Chapter 173-60, and lockable to City Standards.
5. Automatic transfer switch – single electric motor style.
6. Block heater.
7. Battery & rack.
8. Battery charger.
9. Conduit, wire and piping.

The generator set and transfer switch shall be Cummins/Onan complying with the latest edition of Onan Corporation standard specifications and City Standards or a City approved equal generator set and transfer switch.

The generator set shall be spark-ignited, liquid propane; 60 Hertz, 1,800 rpm, 3-phase, 480/277 volt standby power or diesel if approved by the City. Diesel required for generator sets greater than 150 kW.

The generator set shall include the following:

Engine

1. Single phase, 1500 watt block heater (115 VAC)

Generator Set

1. Mainline circuit breaker
2. 5-year basic power warranty

Accessories

1. Batteries
2. Battery Charger, 2 amp, 12 VDC, 120 Vac Input
3. Vibration Isolators, Pad Type

Control Panel

1. Annunciator relays (12)
2. Run relay package (3)
3. Low coolant level shutdown
4. Anti-condensation space heater, 120 Vac
5. Oil temperature gauge
6. Wattmeter
7. Emergency stop switch

Fuel Systems

1. Liquid LPG or diesel if approved by the City. All piping shall be black iron, except for flexible vibration isolation connections at pipe ends with shut off ball valves.

Alternator

1. Anti-condensation heater, 120 Vac

Control Features

1. Run-stop-remote switch
2. Remote starting, 12-volt, 2 wire
3. Coolant temperature gauge
4. Field circuit breaker
5. DC voltmeter
6. Running time meter
7. Lamp test switch
8. Oil pressure gauge
9. Fault reset switch
10. Cycle cranking
11. 12-light engine monitor with individual 1/2 amp relay signals and a common alarm contact for each of the following conditions:
    - Run (Green Light)
    - Pre-Warning For Low Oil Pressure (Yellow Light)
    - Pre-Warning For High Coolant Temp (Yellow Light)
    - Low Oil Pressure Shutdown (Red Light)
    - High Coolant Temperature Shutdown (Red Light)

- Overcrank Shutdown (Red Light)
- Overspeed Shutdown (Red Light)
- Switch Off (Flashing Red Light- Indicates Generator Set Not In Automatic Start Mode)
- Low Coolant Temperature (Yellow Light)
- Low Fuel (Yellow Light)
- Two Customer Selected Faults (Red Light)

AC Meter Package

Order with NFPA 110 monitor to meet code requirements.

1. AC voltmeter (dual range)
2. AC ammeter (dual range)
3. Voltmeter/ammeter phase selector switch with an off position
4. Dual scale frequency meter/tachometer
5. AC Rheostat (panel mounted) for + 5% voltage adjust

The transfer switch shall include the following:

1. Sized for full station and auxiliary equipment load plus 25%.

Pole Configuration

1. Poles - 3 (Solid Neutral)

Frequency

1. 60 Hertz

Application

1. Appl - Utility to Genset

System Options

1. Three phase, 3-wire or 4-wire

Enclosure

1. B002 Type 3R; Intended for outdoor use (dustproof and rainproof)

Listing

1. Listing - UL 1008

Programmed Transition

1. Program Transition, 1-60 sec.

Applications Modules

1. Monitor - Phase Sequence/Balance

Suitable guards shall be provided on all electrical parts to minimize the personal shock hazard.

Generator shall be broken-in sufficiently to permit application of full load immediately upon installation.

Generator supplier shall provide all tools for the generator set as recommended and required by the manufacturer.

Generator installation shall be checked by the supplier after installation to determine that the installation is correct. Written confirmation shall be provided to the City. Generator supplier shall perform a full load test for 2 hours after installation is complete. Provide resistive load bank for this test.

Generator supplier shall provide a minimum of 8 hours of training for City personnel at the station site during start-up.

Generator manufacturer shall provide four copies of the maintenance and operation manual. These manuals shall be complete and shall include all information necessary to allow City personnel to maintain the generator.

Generator mounting pad shall be reinforced concrete to carry the weight of the unit and shall extend a minimum of 3 inches beyond generator housing. All formed edges to be 1/2 round or 3/4 inch chamfer.

Propane tank support pad shall be as above.

Diesel tanks (if diesel generator is approved by the City) shall be Convault AST, or approved equal, equipped with external fuel shutoff valve.

9. FORCE MAIN:

The force main shall be a minimum 6-inch diameter ductile iron Class 52 polyethylene or epoxy lined or high-density polyethylene (HDPE) if approved by the City and provided with a continual positive slope. There shall be no intermediate high point between the pump station and the force main discharge point, unless properly protected with sewage air and vacuum release assembly. Minimum cover over the force main shall be 48 inches. All pipes (gravity and pressure) entering and leaving the wet pit or dry pit shall have flexible couplings within 18-inches of the structure. Install force main location boxes as required, shown on Detail V-S3.

Discharge of the force main to the gravity sewers shall be made at a manhole with the force main penetration core drilled and the force main aligned to discharge towards the downstream pipe. The invert of the force main shall be

0.1-foot above the invert of the downstream pipe. Channel the manhole as required.

A bypass pump connection equipped with a Cam Lock fitting and cap shall be located near the wet well in a location specified by the City.

10. TESTING FORCE MAIN:

Cleaning

All force mains shall be cleaned prior to connection of force main to pumping facilities. Contractor to provide cleaning plan for City review and approval.

Test Specifications

All force mains shall be tested prior to acceptance of work. All pumps, gauges, plugs, saddles, corporation stops, miscellaneous hose and piping, and measuring equipment necessary for performing the test shall be furnished, installed and operated by the Developer. Feed for the pump shall be from a barrel or other container within the actual amount of "makeup" water, so that it can be measured periodically during the test period.

The pipeline shall be backfilled sufficiently to prevent movement of the pipe under pressure. All thrust blocks shall be in place and time allowed for the concrete to cure before testing. Where permanent blocking is not required, the Developer shall furnish and install temporary blocking.

The pipeline shall be subjected to a pressure and leakage test of a minimum of 200 pounds per square inch for a period of not less than 1 hour. The test pressure shall be applied at the low end of the section tested.

Prior to calling for the City to witness the pressure test, the Developer shall first perform a satisfactory pressure test. The allowable leakage rate per thousand feet of each size pipeline is as follows:

	Allowable Leakage
Pipe Size	**Gal. per Hour per 1,000 Ft. @ 200 psi**
6"	0.64
8"	0.85
10"	1.06
12"	1.28

Defective materials or workmanship, discovered as a result of the tests, shall be replaced by the Developer at the Developer's expense. Whenever it is necessary

to replace defective material or correct the workmanship, the tests shall be re-run at the Developer's expense until a satisfactory test is obtained.

Preliminary Tests

Developer shall conduct preliminary tests and assure himself that the section to be tested is in an acceptable condition before requesting the City to witness the test.

Thrust Blocks & Anchor Blocks

Fittings shall be "blocked" with poured-in-place concrete, with a firm minimum bearing against an undisturbed earth wall. Timber blocking will not be permitted. Thrust blocks shall be poured as soon as possible after setting the fittings in place to allow the concrete to "set" before applying the pressure test. The concrete thrust blocks shall be in place before beginning the pressure test. Anchor blocks shall be allowed to set sufficiently to develop the necessary bond strength between the reinforcing rods and the concrete anchor before beginning the pressure test. A visqueen barrier shall be provided to protect glands, bolts and other miscellaneous materials required for this type of connection from the concrete. Fittings that must be blocked against an undisturbed earth wall shall be restrained with restrained joint pipe and fittings.

11. LIFT STATION TEST PROGRAM:

The Developer shall perform, as a minimum, the following tests and provide the City written documentation of the date performed and results obtained. Pump tests shall meet or exceed specified capacity. The City shall be informed of the testing schedule 48 hours prior to the test and shall be present during testing.

1. Pump capacity by drawdown test
2. Bubbler/control panel operation
3. Generator load test
4. Automatic transfer reconciled to auxiliary power and back to utility power
5. Telemetry control to terminal strip
6. Telemetry control to SCADA system
7. Pump vibration analysis

Fill water for testing shall be obtained in accordance with City cross-connection practices.

SECTION V

STANDARD DETAILS

INDEX OF DETAILS

PAGE NO. DESCRIPTION

GENERAL

V-G1 ..... VERTICAL ANCHOR BLOCK
V-G2 ..... THRUST BLOCKS
V-G3 ..... THRUST RESTRAINT FOR DUCTILE IRON PIPE
V-G4 ..... TYPICAL UTILITY CROSSING
V-G5 ..... ENCASEMENT/CARRIER PIPES

WATER SYSTEMS

V-W1 ..... WATER MAIN TRENCH SECTION
V-W2 ..... FIRE HYDRANT ASSEMBLY
V-W3 ..... FIRE HYDRANT LOCATION IN CUT OR FILL
V-W4 ..... RELOCATE FIRE HYDRANT ASSEMBLY
V-W5 ..... WET TAP CONNECTION
V-W6 ..... CUT IN CONNECTION
V-W7 ..... BLOW OFF ASSEMBLY
V-W8 ..... 1" AIR AND VACUUM RELEASE ASSEMBLY
V-W9 ..... 2" AIR AND VACUUM RELEASE ASSEMBLY
V-W10A, V-W10B ..... 3/4" AND 1" WATER SERVICE
V-W11A, V-W11B ..... 1 1/2" AND 2" WATER SERVICE
V-W12A, V-W12B ..... METER VAULT ASSEMBLY, 3" THROUGH 10"
V-W13A, V-W13B ..... DOUBLE CHECK DETECTOR ASSEMBLY, 4" AND LARGER
V-W14 ..... VALVE BOX
V-W15 ..... VALVE BOX ADJUSTMENT
V-W16 ..... VALVE EXTENSION STEM
V-W17 ..... GUARD POST
V-W18A, V-W18B ..... PRESSURE REDUCING VAULT
V-W19 ..... REDUCED PRESSURE DETECTOR ASSEMBLY – 3/4" TO 2"
V-W20 ..... REDUCED PRESSURE BACKFLOW ASSEMBLY – 2-1/2" AND LARGER
V-W21 ..... DOUBLE CHECK VALVE ASSEMBLY, 2" AND SMALLER
V-W22 ..... TESTING CONNECTION DETAIL
V-W23 ..... 1" OR 2" DOMESTIC FIRE SERVICE CONNECTION
V-W24 ..... 1" OR 2" NON-FREEZE YARD HYDRANT
V-W25 ..... REDUCED PRESSURE BACKFLOW ASSEMBLY – 2-1/2" AND LARGER

SANITARY SEWER SYSTEMS

V-S1 ..... SANITARY SEWER TRENCH SECTION (PVC/GRAVITY)
V-S2 ..... SANITARY SEWER TRENCH SECTION (DUCTILE IRON/GRAVITY)
V-S3A ..... PRESSURE LINE/FORCE MAIN TRENCH SECTION
V-S3B ..... FORCE MAIN LOCATION BOX
V-S4A ..... SANITARY SEWER MANHOLE SECTION
V-S4B ..... MANHOLE COVER PAVING PLAN
V-S5 ..... SANITARY SEWER MANHOLE PLAN
V-S6 ..... SANITARY SEWER SADDLE MANHOLE
V-S7 ..... SANITARY SEWER SHALLOW MANHOLE
V-S8 ..... OUTSIDE DROP MANHOLE
V-S9 ..... FORCE MAIN DISCHARGE MANHOLE
V-S10 ..... SANITARY SEWER AIR AND VACUUM RELEASE ASSEMBLY
V-S11 ..... STANDARD SIDE SEWER CONNECTION
V-S12 ..... SIDE SEWER DETAIL (CONNECTION TO EXISTING MAIN)
V-S13 ..... STANDING SIDE SEWER
V-S14 ..... PRIVATE SIDE SEWER INSTALLATION

INDEX OF DETAILS (CONT.)

PAGE NO. DESCRIPTION

SEWAGE LIFT STATIONS

V-S15 ..... PRIVATE GRINDER PUMP INSTALLATION
V-S16 ..... SIDE SEWER CLEANOUT
V-LS1 ..... LIFT STATION ELECTRICAL SCHEMATIC
V-LS2 ..... EMERGENCY PUMP CONNECTION
V-LS3 ..... ROOF STRUCTURE FOR ELECTRICAL ENCLOSURE
V-LS4 ..... BACKFLOW PREVENTER
V-LS5 ..... VENT DETAIL
V-LS6 ..... FLUSH MOUNT SLEEVE
V-LS7 ..... ROCK CATCH MANHOLE

GENERAL SYSTEM

STANDARD DETAILS

TYPE "A" BLOCKING
FOR 11 1/4°–22 1/2°–30° VERTICAL BENDS

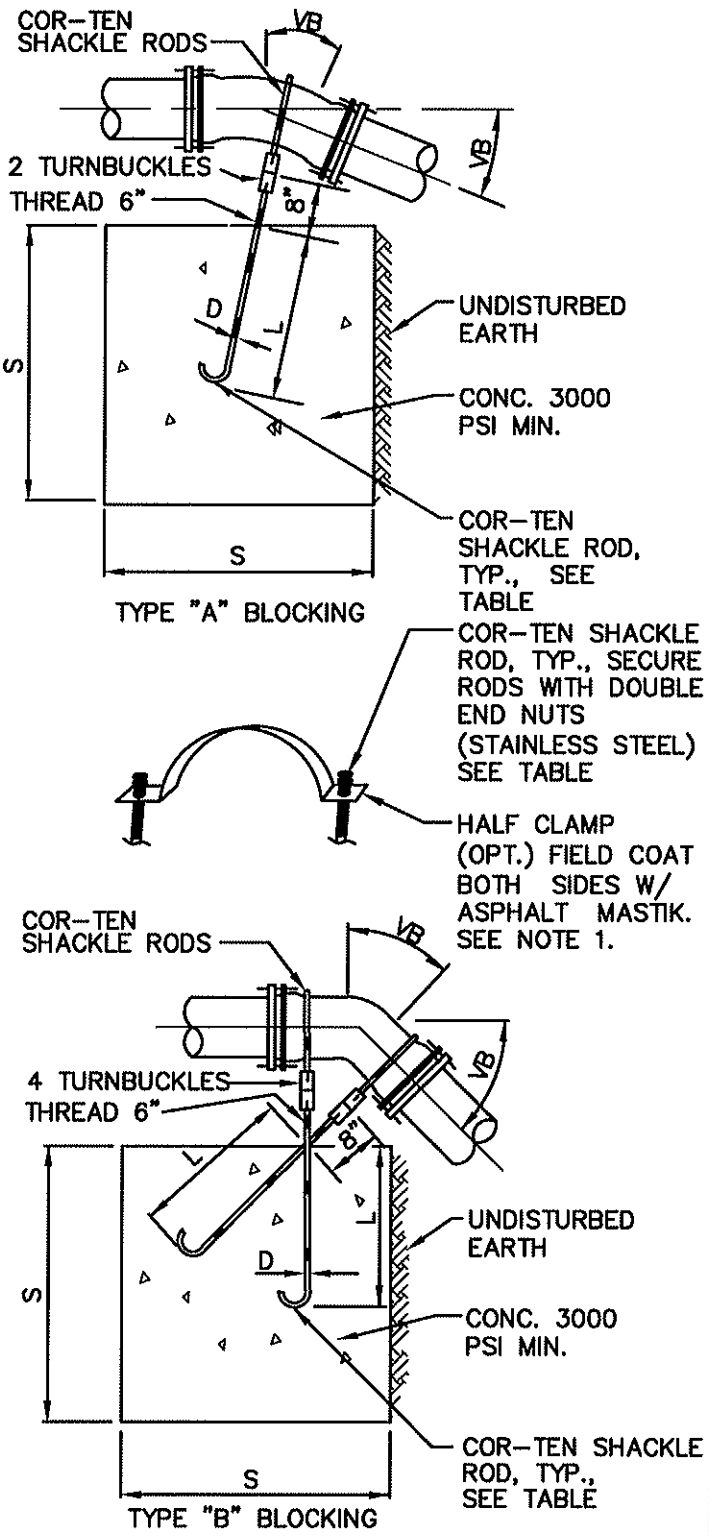
PIPE SIZE NOMINAL DIAMETER– INCHES	TEST PRESSURE PSI	VB VERTICAL BEND DEGREES	No. OF CU. FT. OF CONC. BLOCKING	S SIDE OF CUBE LIN. FT.	D DIAM. OF SHACKLE RODS (2) INCHES	L DEPTH OF RODS IN CONCRETE LIN. FT.
4"	300	11 1/4	8	2	5/8"	1.5
		22 1/2	11	2.2		2.0
		30	17	2.6		
6"	300	11 1/4	11	2.2	5/8"	2.0
		22 1/2	25	2.9		
		30	41	3.5		
8"	300	11 1/4	16	2.5	5/8"	2.0
		22 1/2	47	3.6		
		30	70	4.1	3/4"	2.5
12"	250	11 1/4	32	3.2	5/8"	2.0
		22 1/2	88	4.5	7/8"	3.0
		30	132	5.1		
16"	225	11 1/4	70	4.1	7/8"	3.0
		22 1/2	184	5.7	1 1/8"	4.0
		30	275	6.5	1 1/4"	
20"	200	11 1/4	91	4.5	7/8"	3.0
		22 1/2	225	6.1	1 1/4"	4.0
		30	330	6.9	1 3/8"	4.5
24"	200	11 1/4	128	5.0	1"	3.5
		22 1/2	320	6.8	1 3/8"	4.5
		30	480	7.9	1 7/8"	5.5

TYPE "B" BLOCKING
FOR – 45° VERTICAL BENDS

		VB		S	D	L
4"	300	45	30	3.1	5/8"	2.0
6"			68	4.1		
8"			123	5.0		
12"	250		232	6.1	3/4"	2.5
16"	225		478	7.8	1 1/8"	4.0
20"	200		560	8.2	1 1/4"	
24"			820	9.4	1 3/8"	4.5

NOTES:

1. HALF CLAMP, WASHERS AND NUTS MAY BE SUBSTITUTED FOR TURNBUCKLE ASSEMBLY. ALL OTHER SPECIFICATIONS THE SAME.



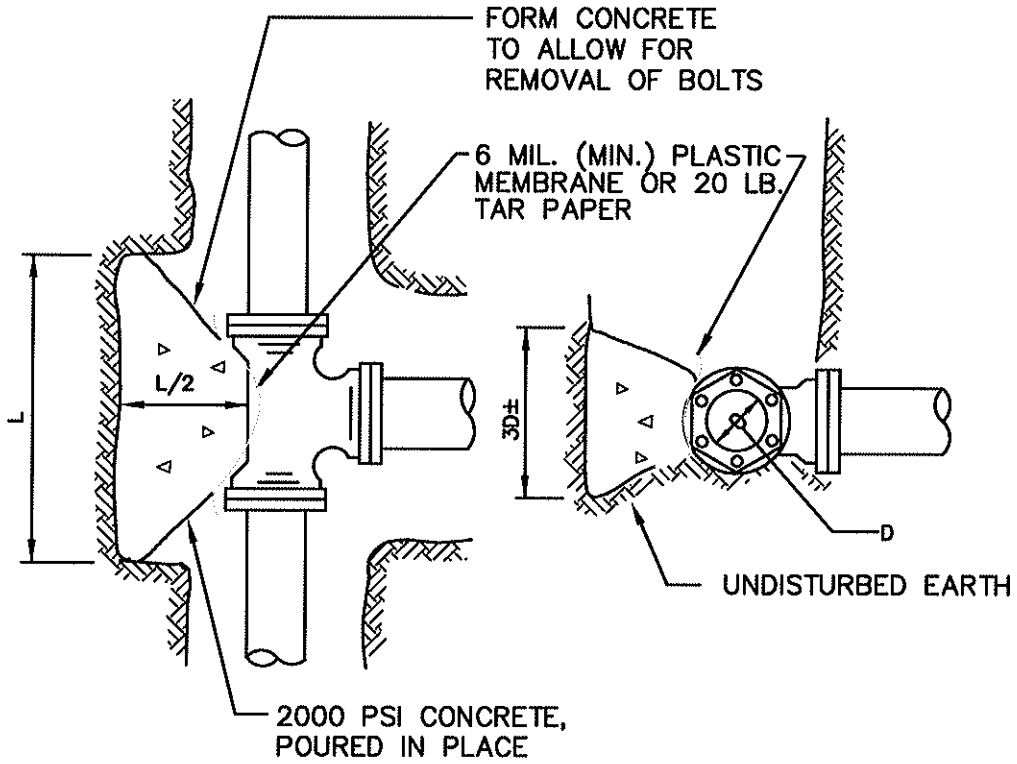
CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V–G1
VERTICAL ANCHOR BLOCK

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MINIMUM BEARING AREA TABLE					
FITTING D	TEE	90°	45°	22 1/2°	11 1/4°
6"	4 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.	2 SQ.FT.
8"	7 SQ.FT.	10 SQ.FT.	6 SQ.FT.	3 SQ.FT.	2 SQ.FT.
10"	10 SQ.FT.	15 SQ.FT.	9 SQ.FT.	5 SQ.FT.	3 SQ.FT.
12"	14 SQ.FT.	22 SQ.FT.	12 SQ.FT.	6 SQ.FT.	4 SQ.FT.
16"	25 SQ.FT.	38 SQ.FT.	21 SQ.FT.	11 SQ.FT.	7 SQ.FT.
18"	32 SQ.FT.	48 SQ.FT.	27 SQ.FT.	14 SQ.FT.	8 SQ.FT.



PLAN **ELEVATION**

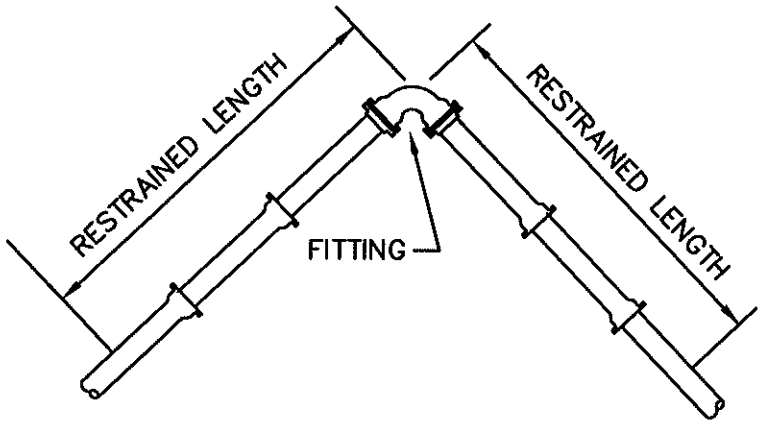
NOTES:

1. BEARING AREA TABLE BASED ON 250 PSI PRESSURE AND 2000 PSF SOIL BEARING. IF PRESSURE IS GREATER OR SOIL BEARING IS LESS, THE THRUST BLOCK SIZE SHALL BE INCREASED.
2. THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE SIZE OF ALL THRUST BLOCKS BASED ON EXISTING AND LOCAL CONDITIONS.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-G2
THRUST BLOCKS

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PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE OR DEAD END CAP
	RESTRAINED LENGTH IN FEET				
4"	40	17	8	4	30
6"	55	23	11	6	39
8"	73	31	15	8	53
10"	88	37	18	9	67
12"	103	43	21	10	82
16"	133	55	27	13	110
18"	145	60	29	15	124

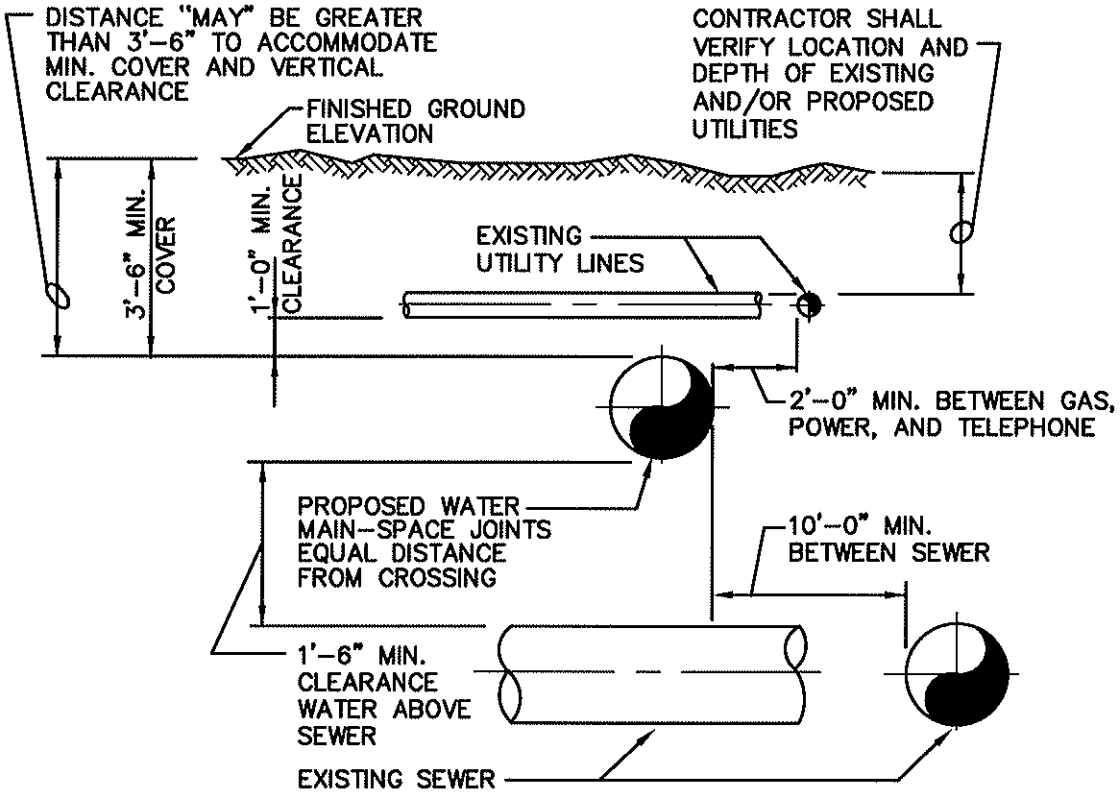
NOTES:

1. RESTRAINED LENGTHS SHOWN ARE MINIMUM AND FOR LINEAL FEET REQUIRED ON EACH SIDE OF FITTING INDICATED.
2. FOOTAGES ARE BASED ON 250 PSI PRESSURE AND 42 INCHES COVER. IF PRESSURE IS GREATER OR COVER IS LESS, THE RESTRAINED LENGTH SHALL BE INCREASED.
3. THIS TABLE REPRESENTS THE "MINIMUM" CONSTRUCTION STANDARDS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE APPROPRIATE RESTRAINED LENGTHS.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-G3
THRUST RESTRAINT FOR DUCTILE IRON PIPE

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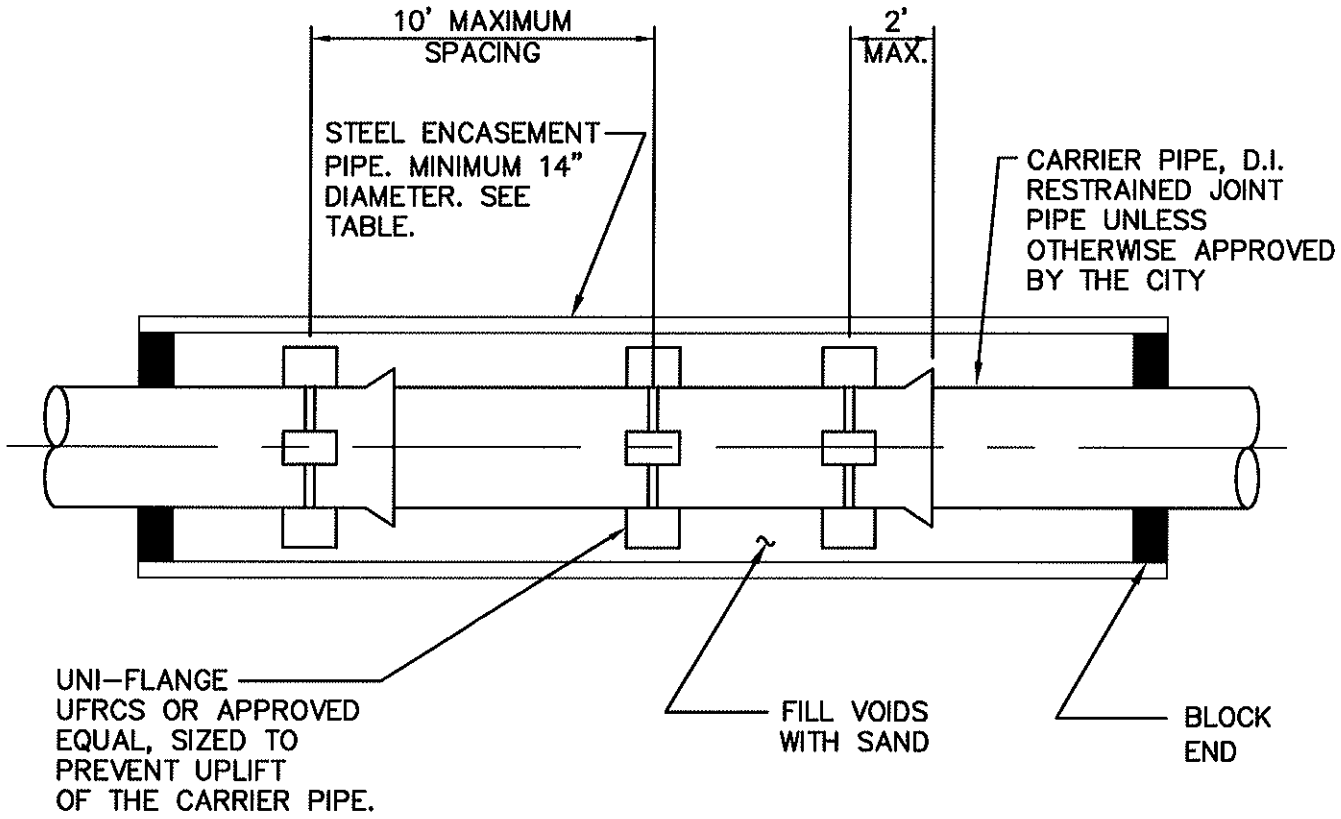
1. REGULATORY AGENCY REQUIREMENTS SHALL SUPERSEDE CITY STANDARDS IF MORE STRINGENT.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V-G4
TYPICAL UTILITY CROSSING

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MINIMUM ENCASEMENT DIAMETER	
CARRIER DIA.(IN.)	ENCASEMENT DIA.(IN.)
6	14
8	18
10	21.5
12	23
16	30

NOTES:

1. CONTRACTOR TO VERIFY LINE AND GRADE PRIOR TO FILLING VOIDS WITH SAND.
2. CARRIER PIPE WITHIN THE LENGTH OF THE ENCASEMENT PIPE SHALL HAVE RESTRAINED JOINTS.
3. REGULATORY AGENCY REQUIREMENTS SHALL SUPERSEDE CITY STANDARDS IF MORE STRINGENT.
4. CASING PIPE SHALL BE SCHEDULE 40 STEEL PIPE, WELDED JOINT, AND MINIMUM YIELD STRENGTH (F_y) OF 35 KSI.

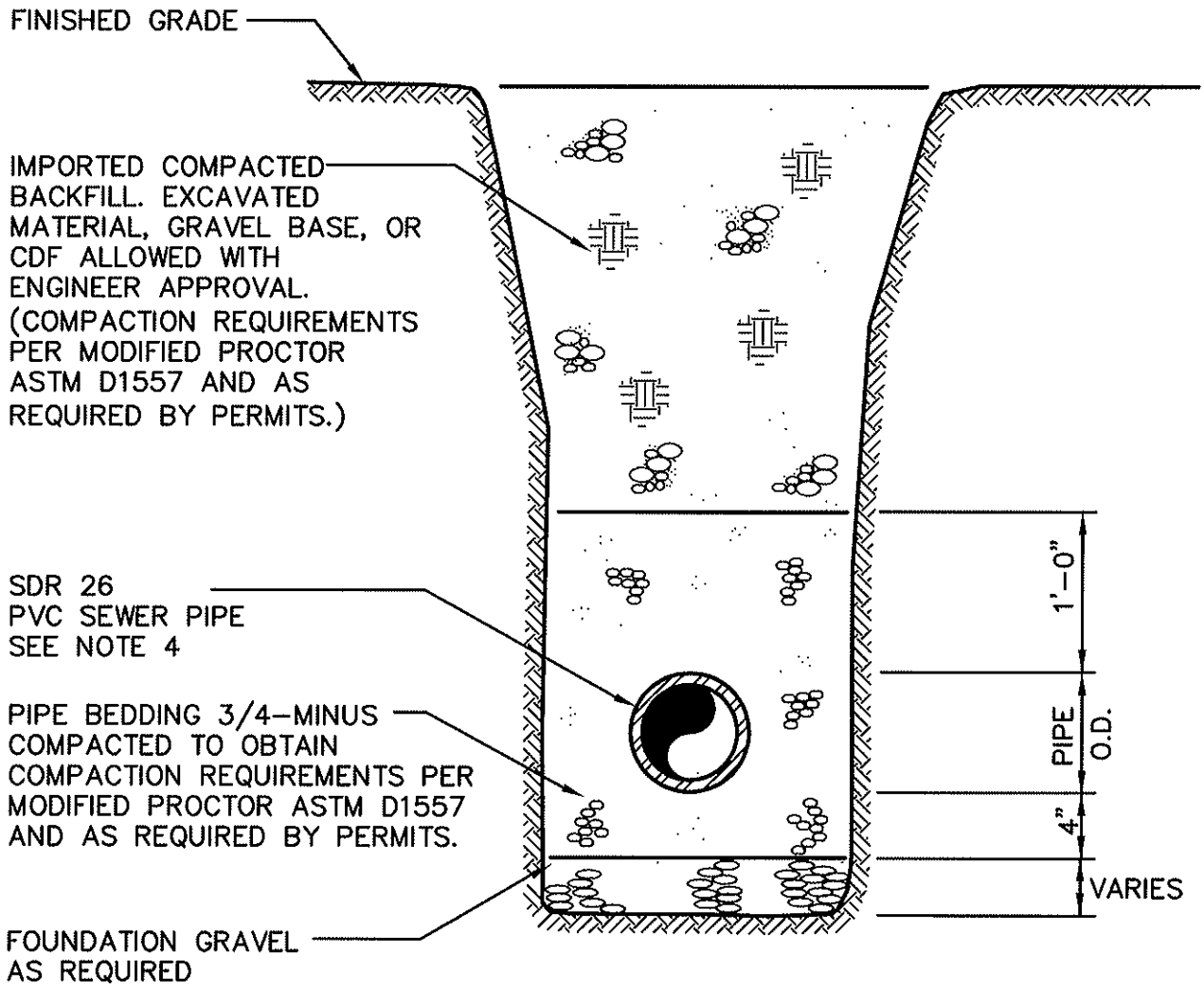
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-G5
ENCASEMENT/CARRIER PIPES

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SANITARY SEWER SYSTEM

STANDARD DETAILS

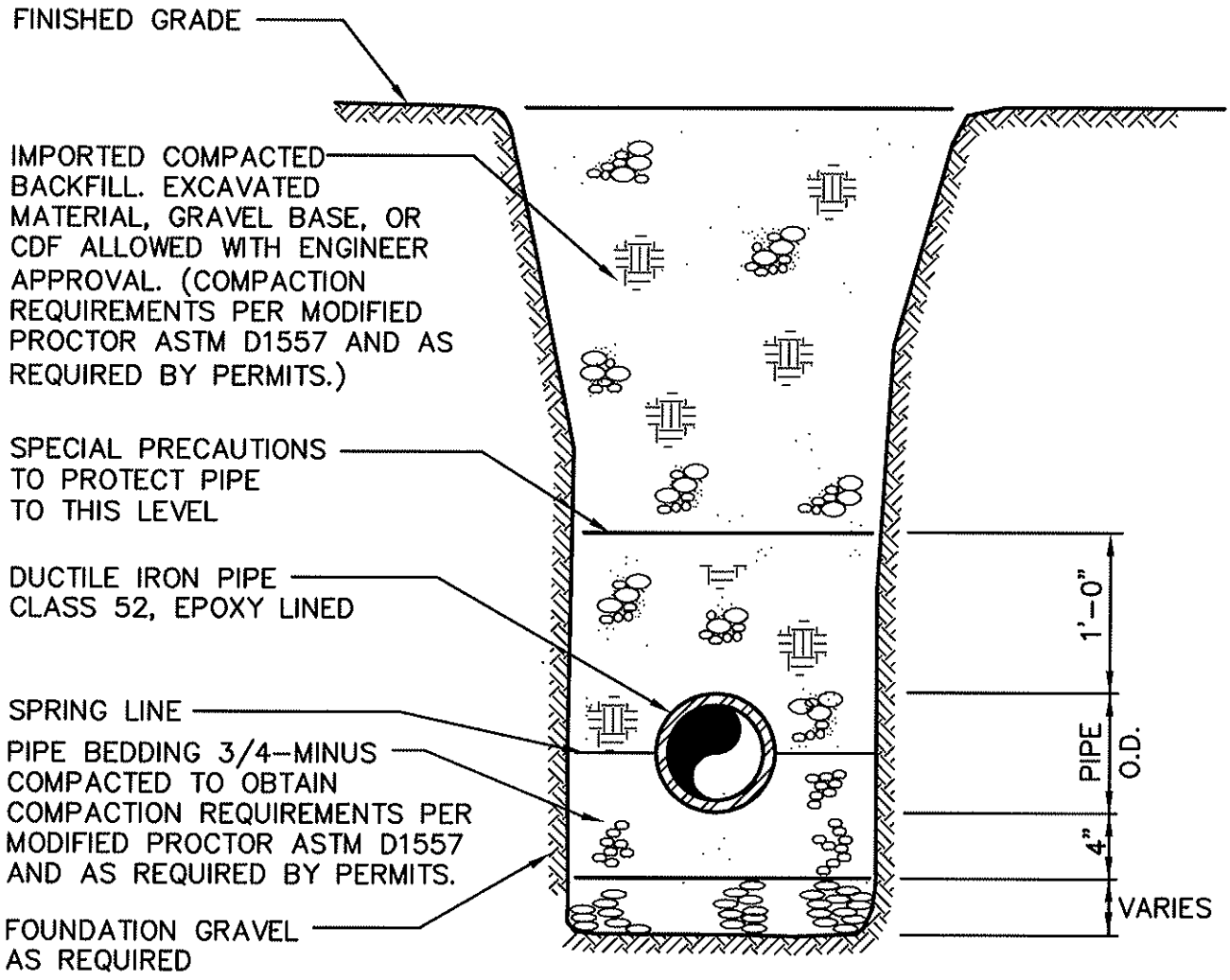


NOTES:

1. BACKFILL MATERIAL AND COMPACTION SHALL BE ON BOTTOM, SIDES AND TOP OF PIPE AND SHALL BE IN CONFORMANCE WITH CITY OF SEQUIM STANDARDS AND/OR COUNTY, CITY, STATE PERMIT REQUIREMENTS.
2. PIPES SHALL BE RESTRAINED IN FILL OR PREVIOUSLY DISTURBED MATERIAL.
3. CLAY OR BENTONITE DAMS SHALL BE INSTALLED ACROSS THE TRENCH AND TO THE FULL DEPTH OF THE GRANULAR MATERIAL IN ALL AREAS OF STEEP SLOPES, STREAM CROSSINGS AND WETLAND TO PREVENT MIGRATION OF WATER ALONG THE PIPELINE.
4. PIPE SHALL BE C900 FOR BURIAL DEPTHS OF 16 FEET AND DEEPER.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S1
SANITARY SEWER TRENCH SECTION
(PLASTIC/GRAVITY)

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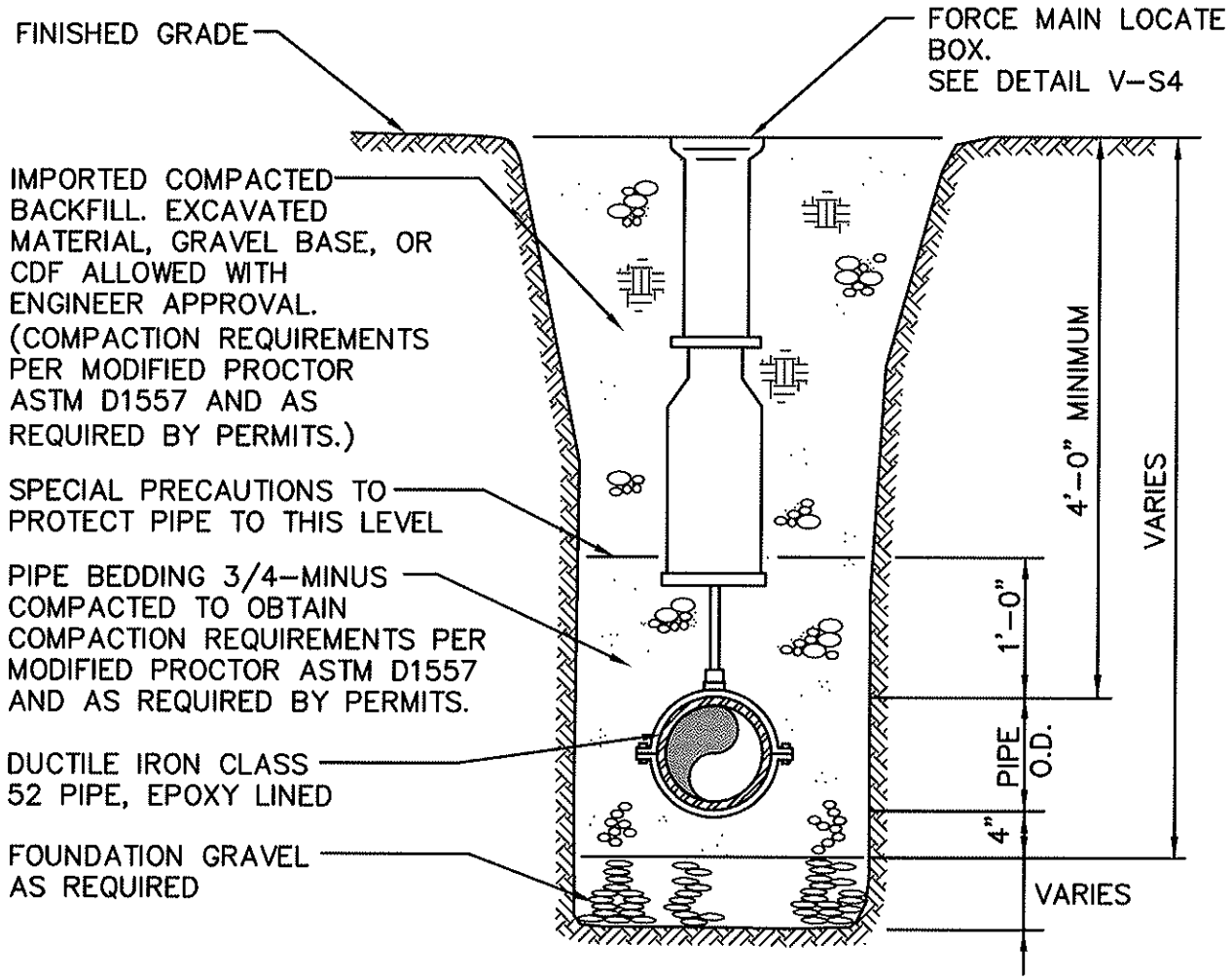
NOTES:

1. BACKFILL MATERIAL AND COMPACTION SHALL BE ON BOTTOM, SIDES AND TOP OF PIPE AND SHALL BE IN CONFORMANCE WITH CITY OF SEQUIM STANDARDS AND/OR COUNTY, CITY, STATE PERMIT REQUIREMENTS.
2. PIPES SHALL BE RESTRAINED IN FILL OR PREVIOUSLY DISTURBED MATERIAL.
3. CLAY OR BENTONITE DAMS SHALL BE INSTALLED ACROSS THE TRENCH AND TO THE FULL DEPTH OF THE GRANULAR MATERIAL IN ALL AREAS OF STEEP SLOPES, STREAM CROSSINGS AND WETLAND TO PREVENT MIGRATION OF WATER ALONG THE PIPELINE.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S2
SANITARY SEWER TRENCH SECTION
(D.I./GRAVITY)

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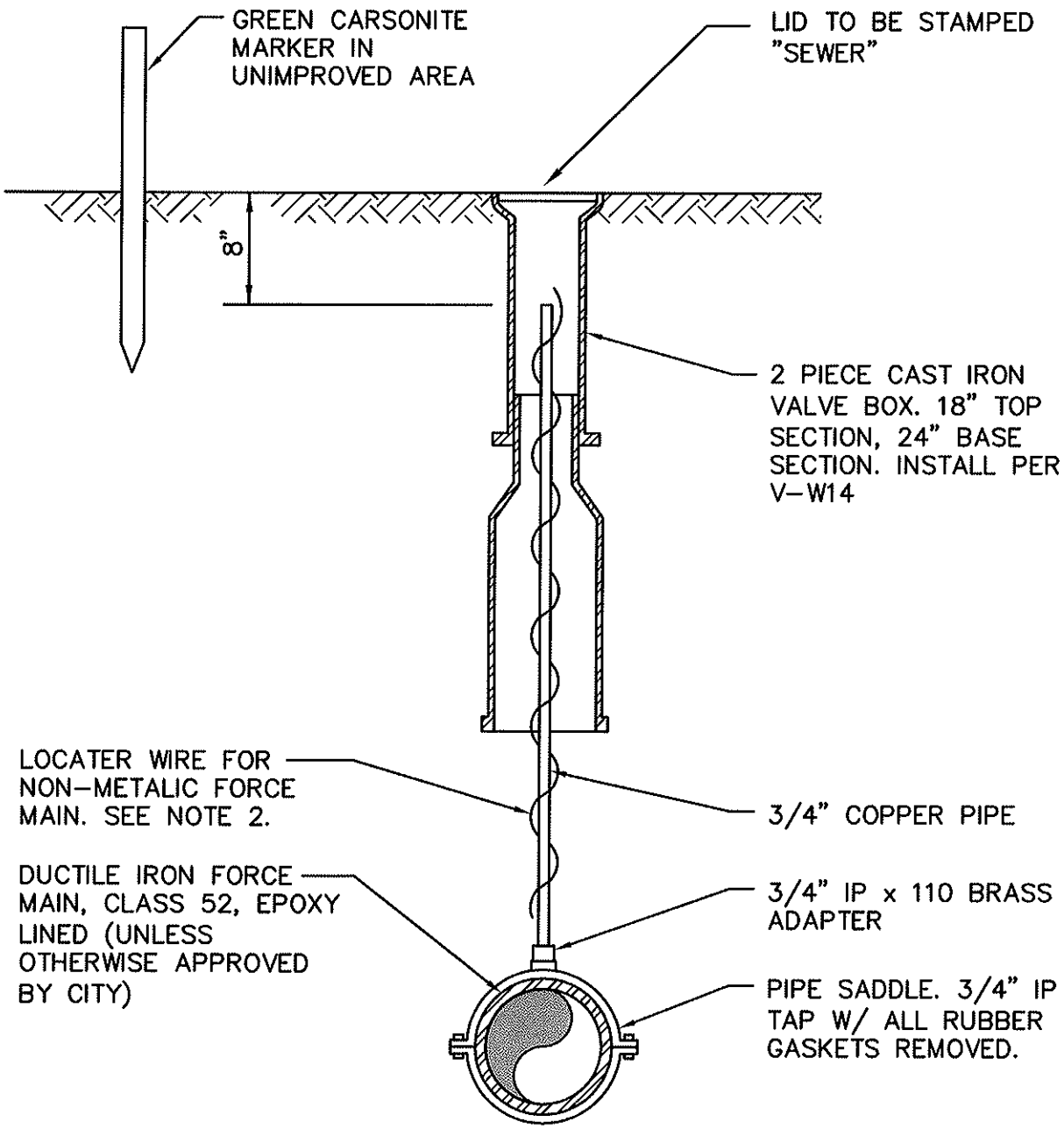
1. BACKFILL MATERIAL AND COMPACTION SHALL BE ON BOTTOM, SIDES AND TOP OF PIPE AND SHALL BE IN CONFORMANCE WITH CITY OF SEQUIM STANDARDS AND/OR THE CLALLAM COUNTY, CITY AND/OR STATE PERMIT REQUIREMENTS.

2. ONLY DUCTILE IRON PIPE SHALL BE USED UNLESS APPROVED BY THE CITY.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S3A
SANITARY SEWER TRENCH SECTION
(FORCE MAIN)

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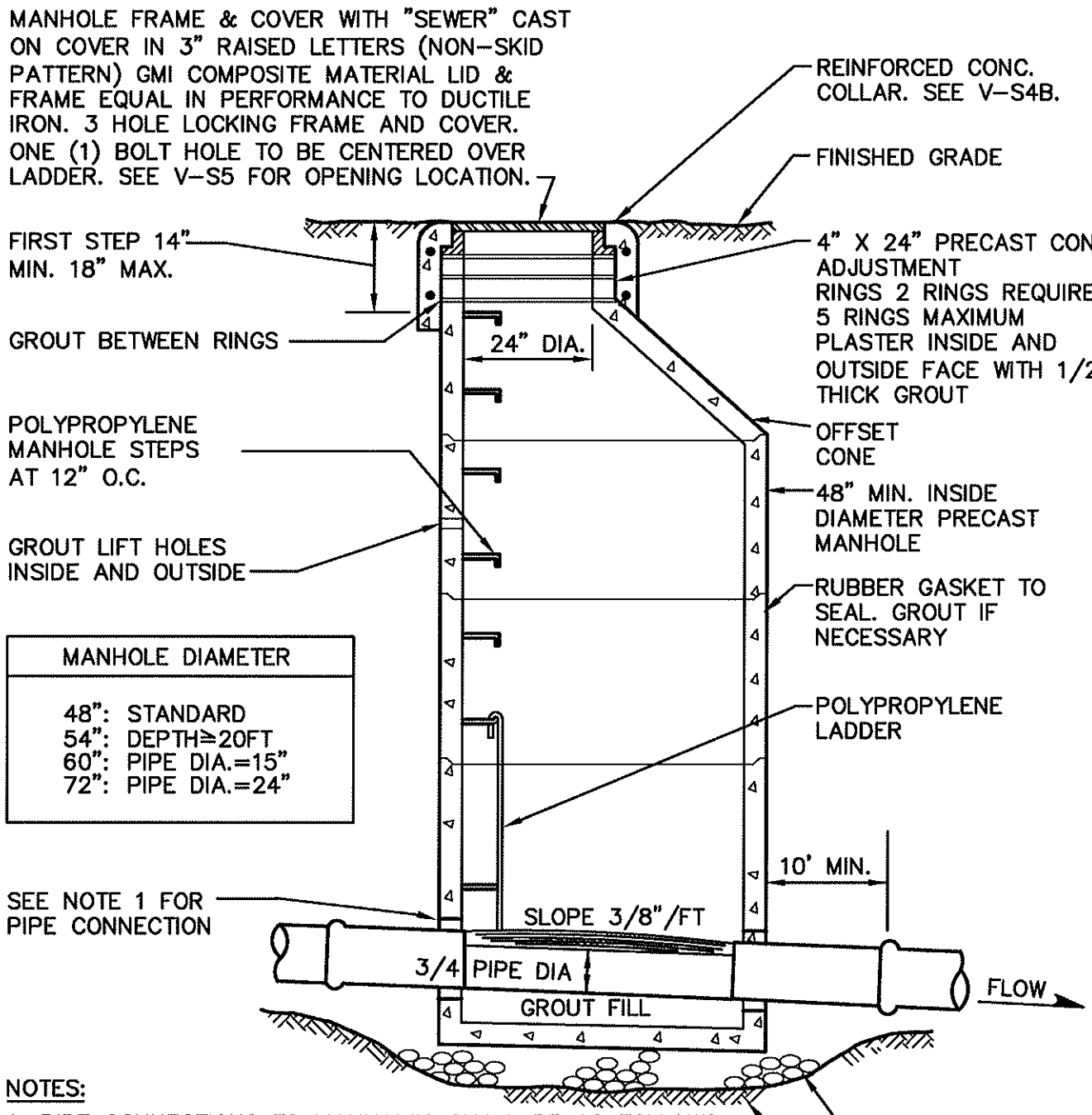
1. LOCATE AT ENDS OF FORCE MAINS, ALL HORIZONTAL BENDS AND AT 300 FT. MAX SPACING, OR AS REQUIRED BY CITY

2. ON NON-METALIC FORCE MAINS, PROVIDE 12 GAUGE COATED COPPER WIRE BETWEEN LOCATION BOXES. WRAP ALONG FORCE MAIN PIPE AND UP COPPER PIPE AT EACH END.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S3B
FORCE MAIN LOCATION BOX

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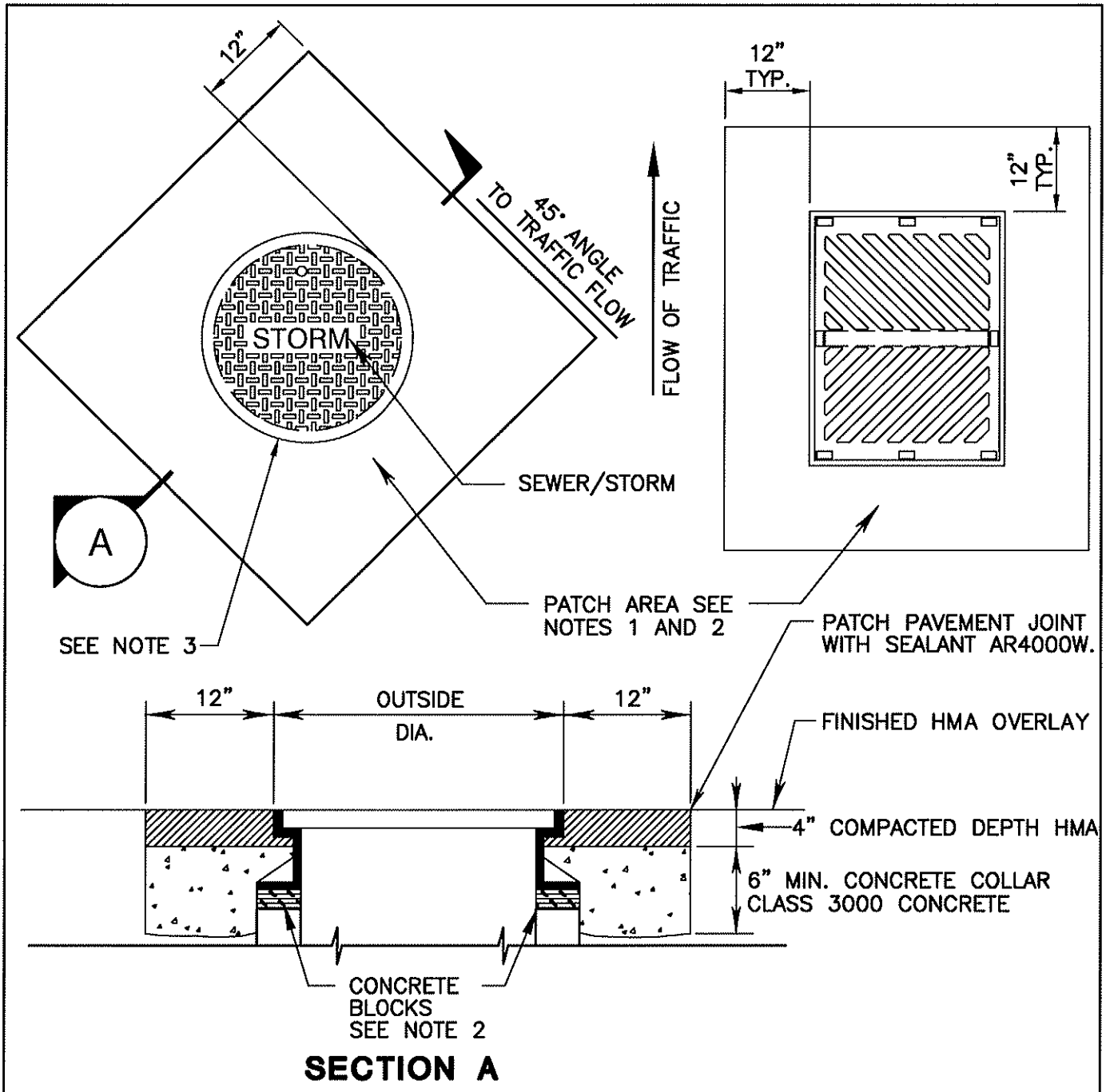
1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS: PVC PIPE: CAST OR GROUT A SAND COLLAR INTO WALL. D.I. OR PVC PIPE: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH EPDM MODEL "C" OR "L" LINK SEAL.
2. DROP OF GRADE THRU MANHOLE SHALL BE 0.10', UNLESS OTHERWISE NOTED.
3. MINIMUM DEPTH OF MANHOLE SHALL BE 8' UNLESS APPROVED BY THE CITY.
4. INSTALL GREEN CARSONITE FIBERGLASS MANHOLE MARKERS IN EASEMENTS.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V-S4A
SANITARY SEWER MANHOLE SECTION

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SECTION A

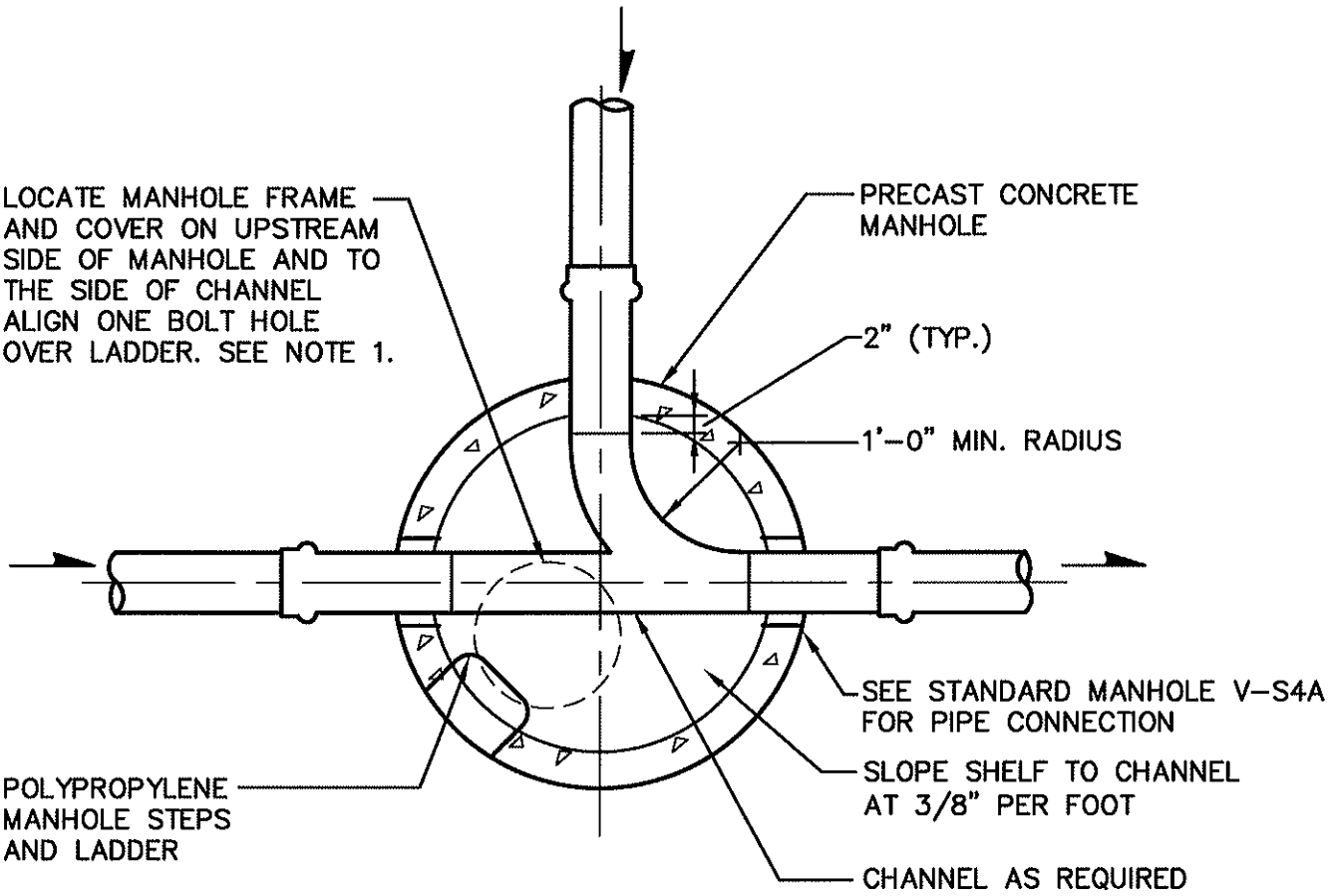
NOTES:

1. REMOVE PAVEMENT AND BASE MATERIALS WITHIN THE PATCH AREA AS DETAILED. ADJUST CASTING FRAME TO NEW PAVEMENT SURFACE USING CONCRETE BLOCKS & CONCRETE GROUT.
2. 2"x4"x8" SOLID BRICK USED FOR FINAL ADJUSTMENT TO GRADE. 6" HIGH MAX.
3. CONTRACTOR SHALL FURNISH AND INSTALL COMPOSITE MANHOLE COVERS (GMI COMPOSITE OR CONTRACTING AGENCY APPROVED EQUAL) ON ALL EXISTING SEWER/STORM MANHOLES. BOLT TO EXISTING COLLAR. PROVIDE EXISTING LID TO CONTRACTING AGENCY.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S4B
MANHOLE PAVING DETAIL

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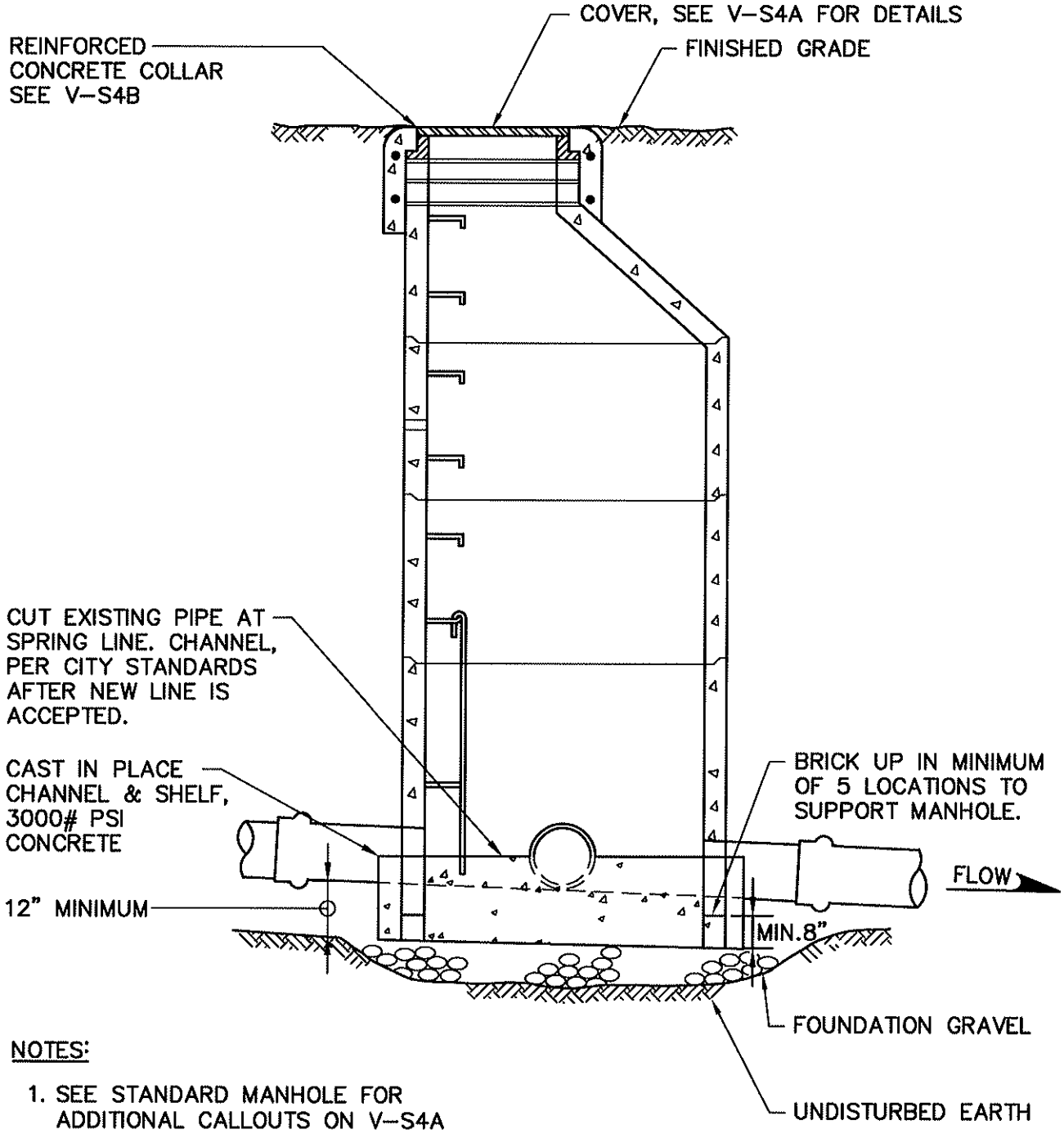
1. CONFIRM FRAME AND COVER LOCATION WITH CITY.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V-S5
SANITARY SEWER MANHOLE PLAN

Gray & Osborne, Inc.
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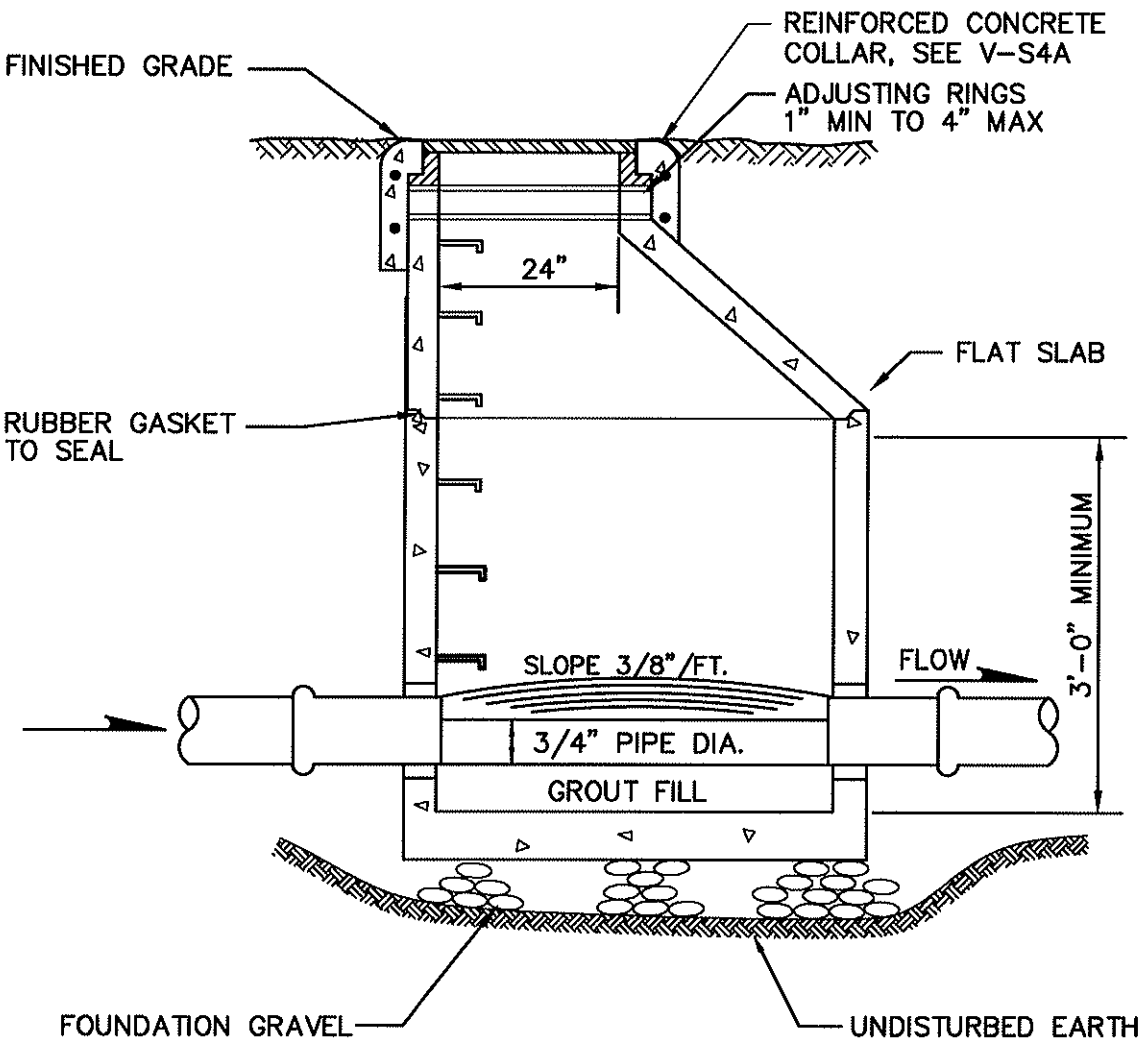
1. SEE STANDARD MANHOLE FOR ADDITIONAL CALLOUTS ON V-S4A

CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V-S6
SANITARY SEWER SADDLE MANHOLE

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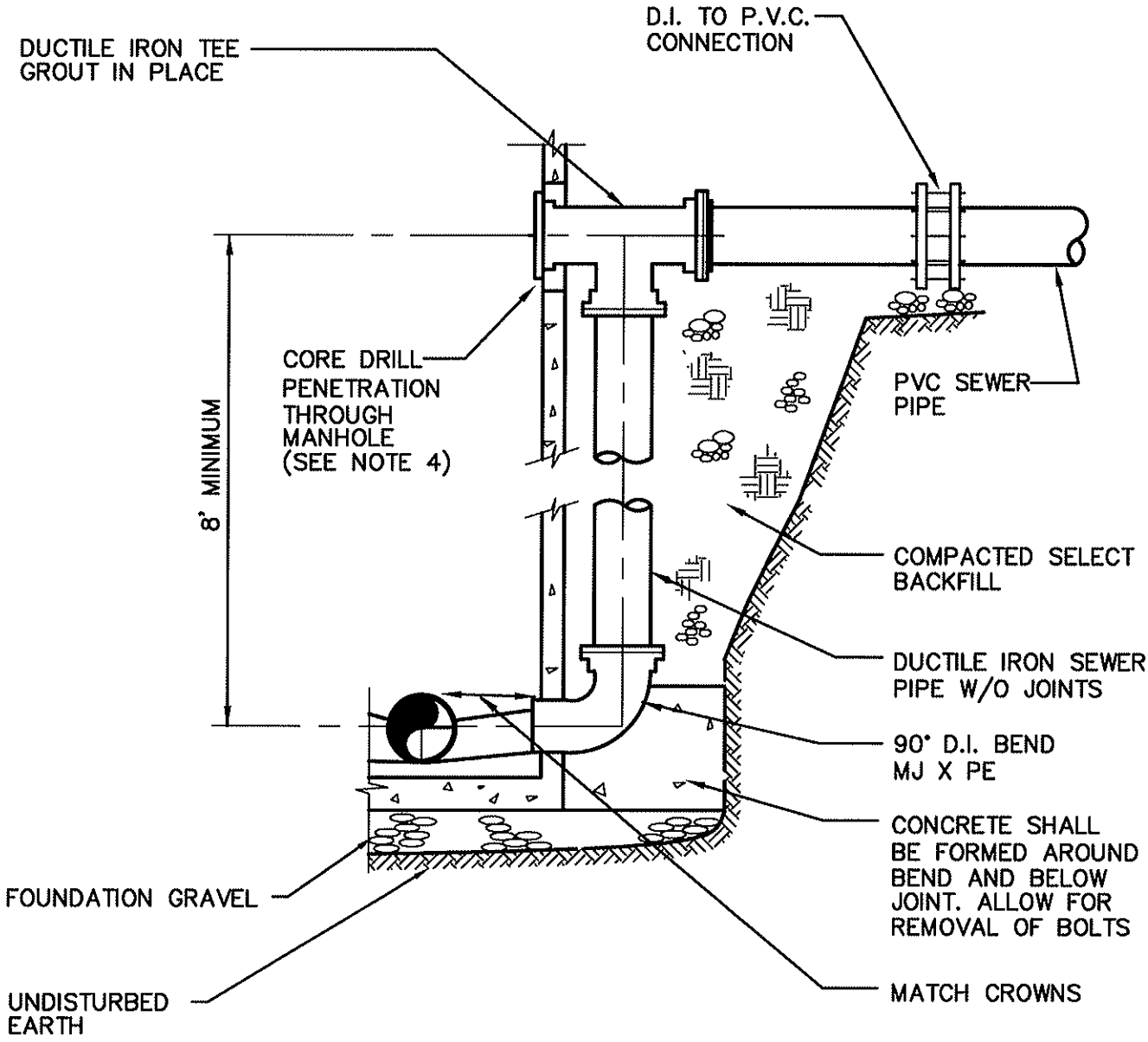
NOTES:

1. SEE STANDARD MANHOLE CALLOUTS ON V-S4A AND V-S5.
2. FRAME AND COVER SHALL MEET REQUIREMENTS FOR 24" MANHOLE.
3. USE OF SHALLOW MANHOLE REQUIRES CITY APPROVAL PRIOR TO INSTALLATION.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S7
SANITARY SEWER SHALLOW MANHOLE

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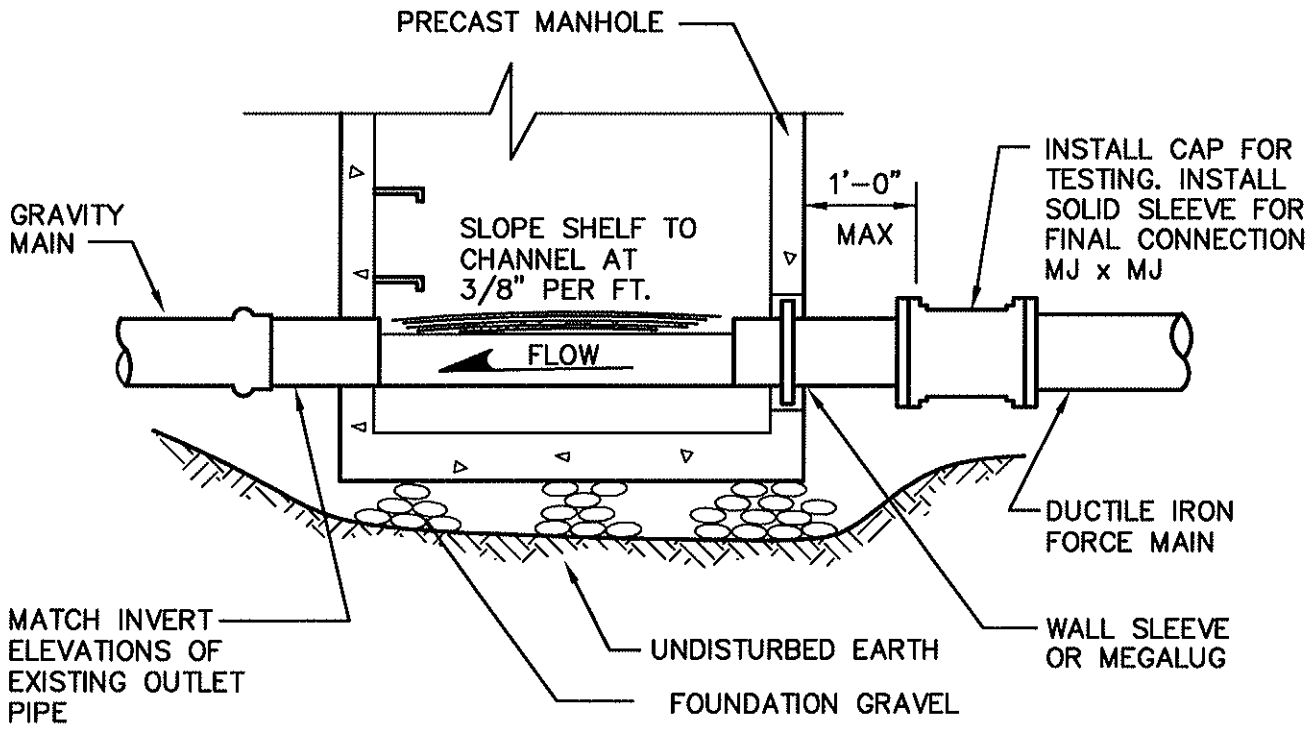
NOTES:

1. USE OF DROP MANHOLE REQUIRES CITY APPROVAL PRIOR TO INSTALLATION.
2. DROP HEIGHT MUST BE GREATER THAN 8 FEET FOR CONSIDERATION.
3. DROP CONNECTIONS WILL ONLY BE CONSIDERED AT JUNCTIONS WITH AN EXISTING DEEP MAIN FOR LATERAL SEWERS TO BE BUILT IN THE FUTURE.
4. EPDM MODEL "C" OR "L" LINK SEAL.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S8
OUTSIDE DROP MANHOLE

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NOTES:

1. PIPE CONNECTIONS TO MANHOLES SHALL BE AS FOLLOWS: PVC PIPE: CAST OR GROUT A SAND COLLAR INTO WALL. D.I. OR PVC PIPE: CORE THE MANHOLE AND CONNECT SEWER PIPE WITH EPDM MODEL "C" OR "L" LINK SEAL EXCEPT FOR FORCE MAIN CONNECTION.

2. DROP OF GRADE THROUGH MANHOLE SHALL BE 0.10', UNLESS OTHERWISE NOTED.

3. ALIGN FORCE MAIN DISCHARGE AXIS WITH OUTLET PIPE.

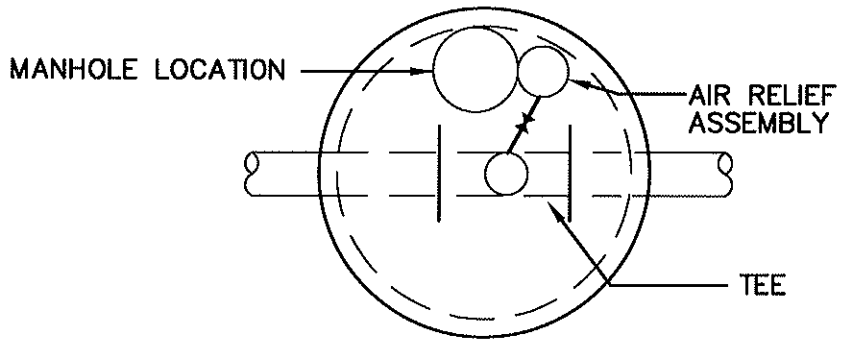
4. RESTRAIN FORCE MAIN JOINTS AND FITTINGS IN ACCORDANCE WITH V-G3.

5. SEE STANDARD MANHOLE CALLOUTS ON V-S4A AND V-S5.

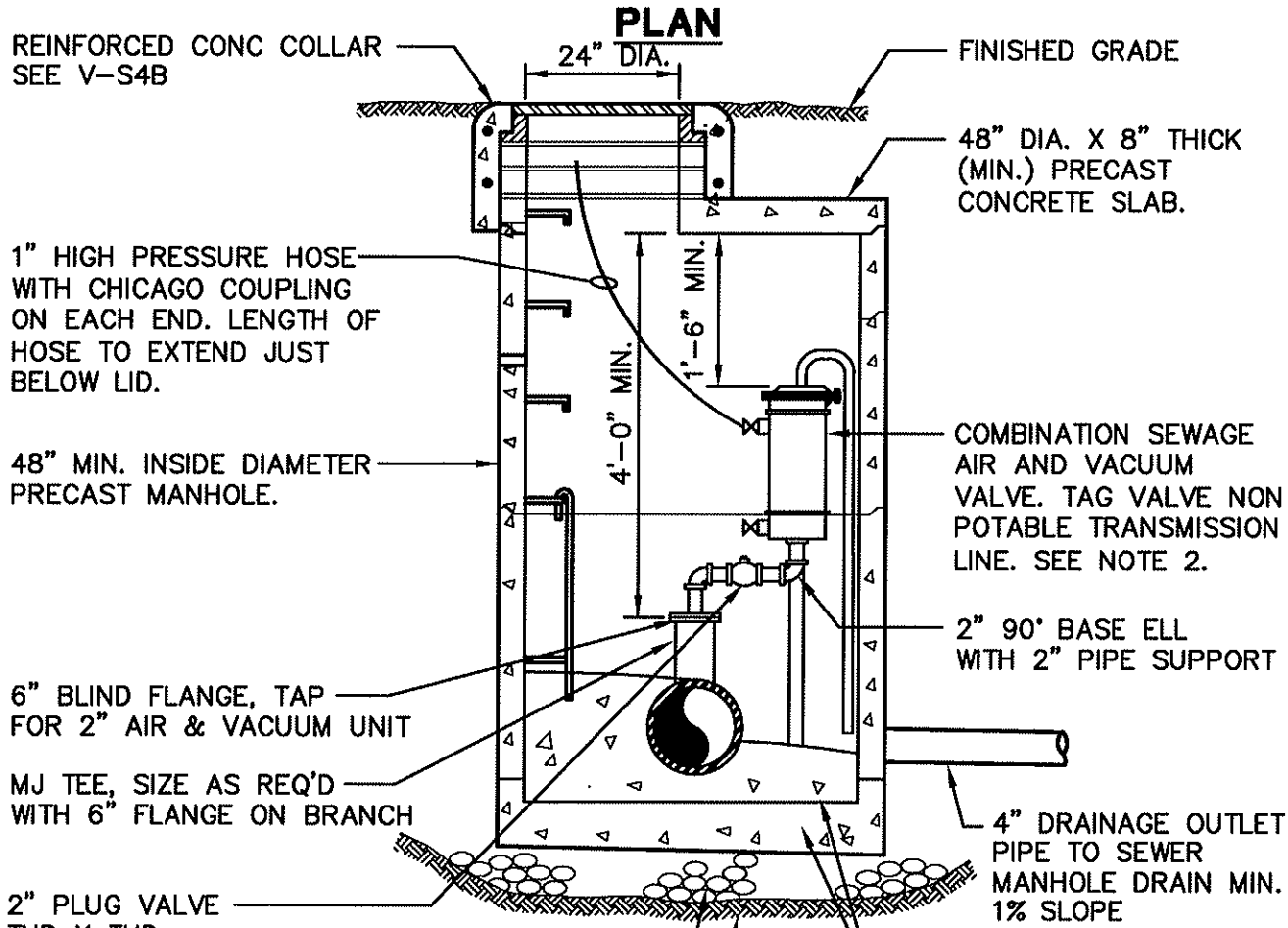
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S9
FORCE MAIN DISCHARGE MANHOLE

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PLAN



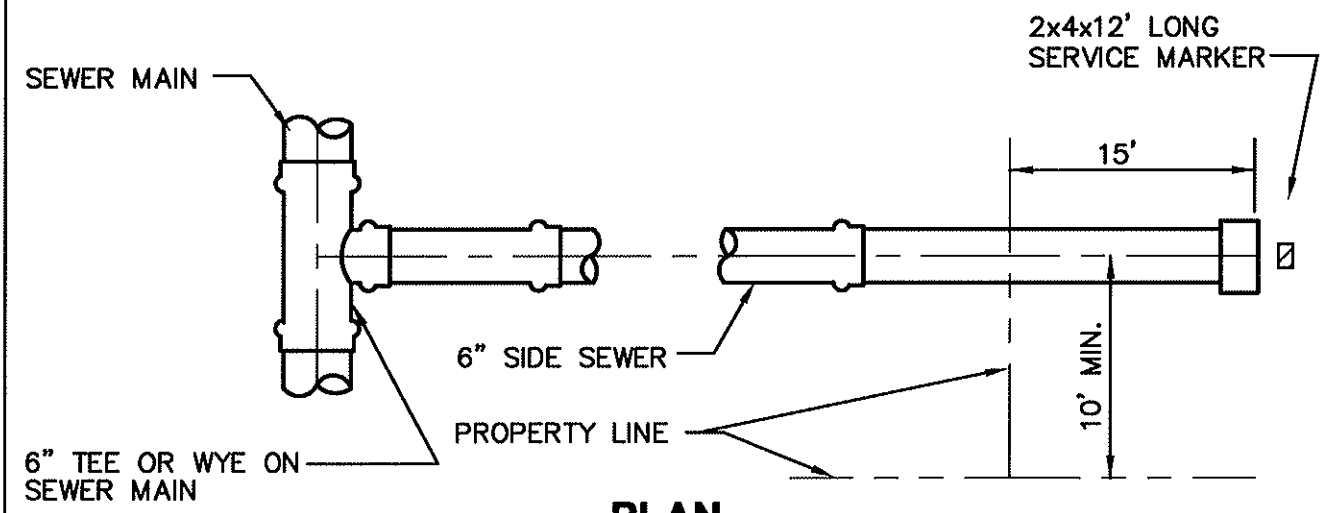
NOTES:

1. SEE STANDARD MANHOLE CALLOUTS ON V-S4A AND V-S5.
2. APCO, CRISPIN OR VALMATIC HEAVY-DUTY COMBINATION AIR AND VACUUM VALVE (SHORT BODY) W/STAINLESS STEEL INTERNALS, EPOXY COATING AND FLUSHING ATTACHMENTS. SEATS SHALL BE SUPPLIED FOR THE FOLLOWING WORKING PRESSURES: 20 PSI, 20-150 PSI.
3. 2" PIPING AND FITTINGS SHALL BE BRASS.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S10
SANITARY SEWER AIR AND VACUUM RELEASE ASSEMBLY

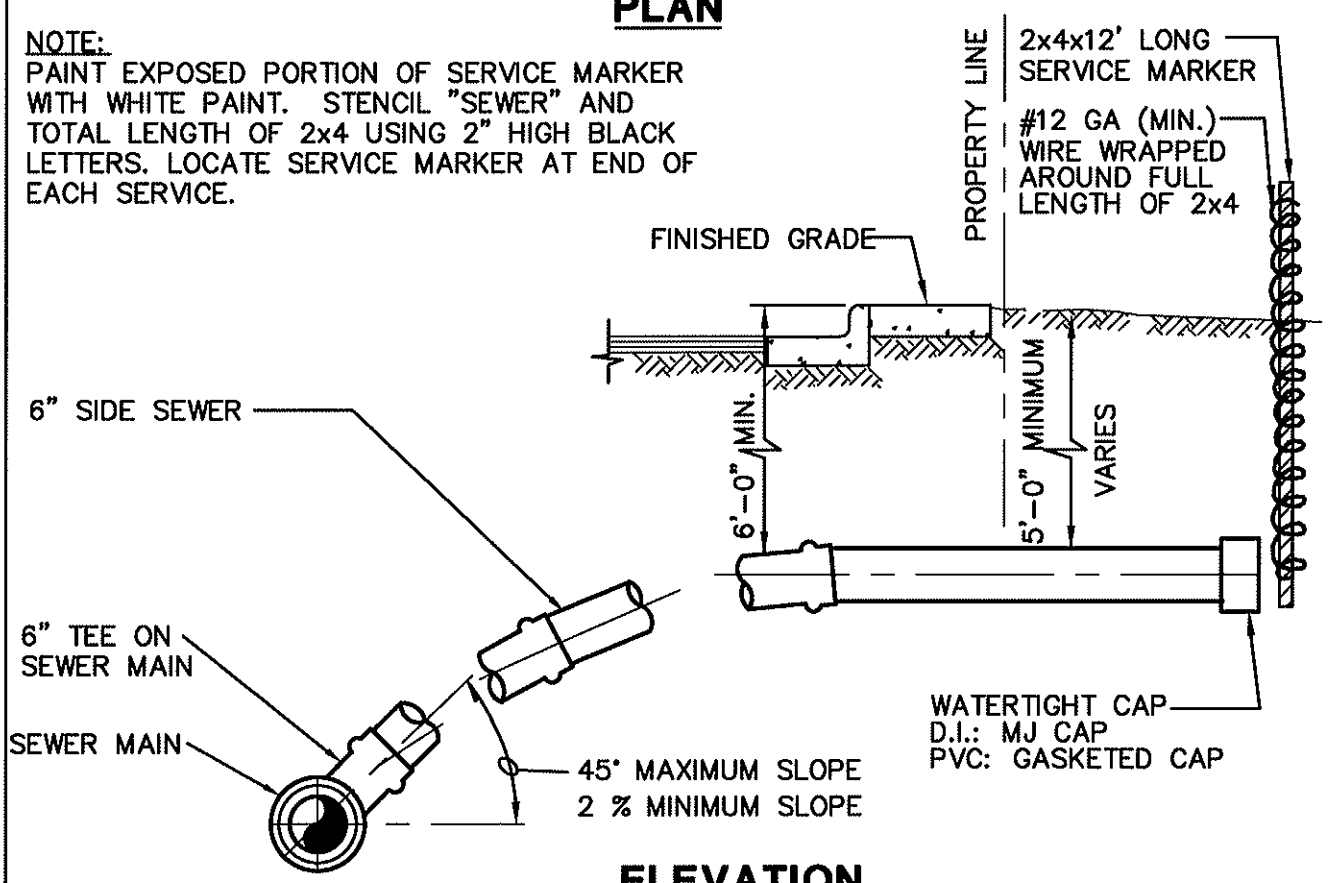
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PLAN

NOTE:
PAINT EXPOSED PORTION OF SERVICE MARKER WITH WHITE PAINT. STENCIL "SEWER" AND TOTAL LENGTH OF 2x4 USING 2" HIGH BLACK LETTERS. LOCATE SERVICE MARKER AT END OF EACH SERVICE.



ELEVATION

NOTES:

1. MAXIMUM DEFLECTION NOT TO EXCEED PIPE MANUFACTURER RECOMMENDATIONS.
2. SIDE SEWER LATERAL SHALL BE THE SAME MATERIAL AS THE MAIN LINE SEWER AND BEDDED USING 3/4"–MINUS CRUSHED GRAVEL, COMPACTED BELOW, ON SIDES AND ON TOP OF PIPE.
3. SEPARATE LATERAL REQUIRED FOR EACH LOT.

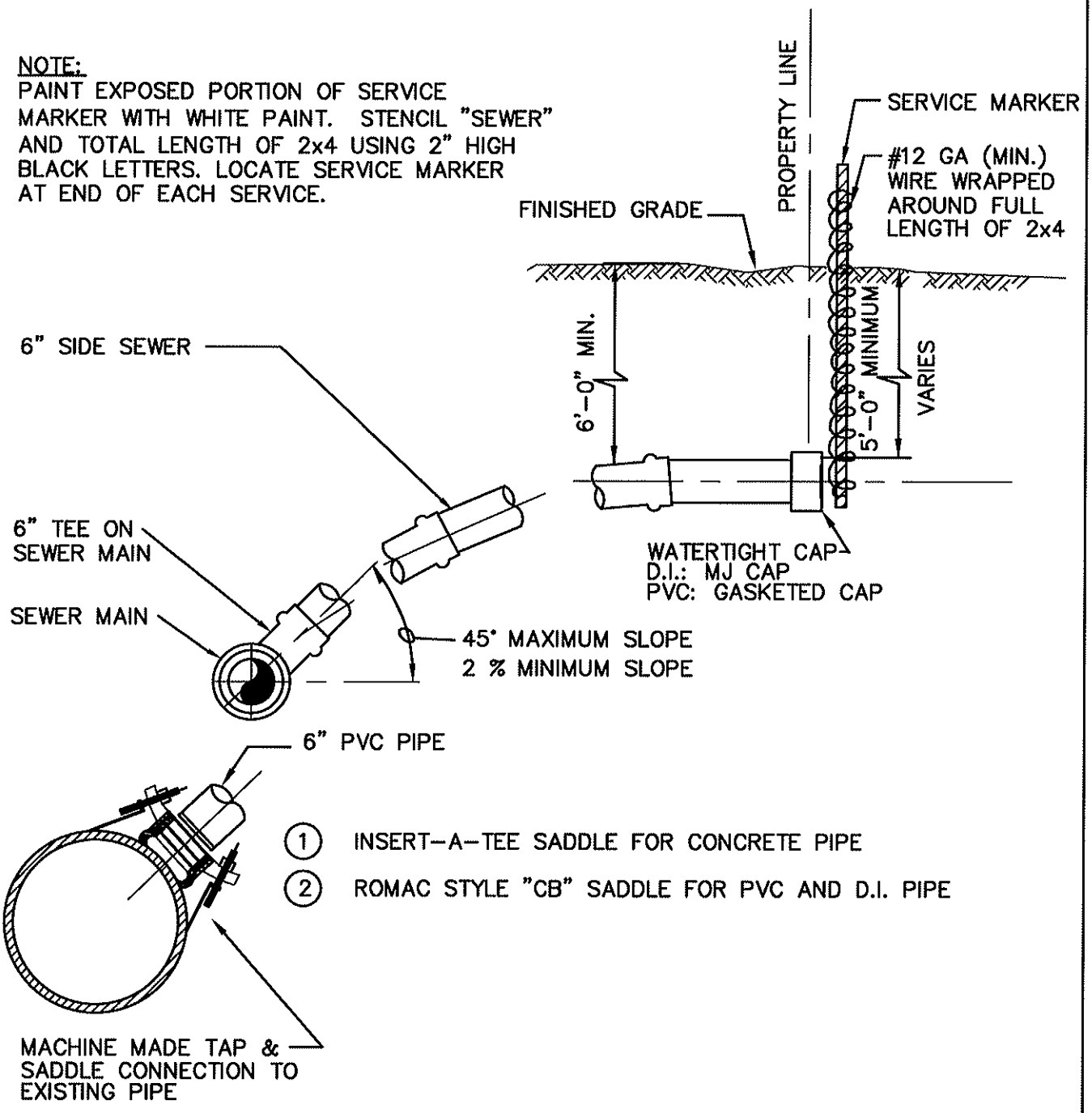
CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V–S11
STANDARD SIDE SEWER CONNECTION

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NOTE:
PAINT EXPOSED PORTION OF SERVICE MARKER WITH WHITE PAINT. STENCIL "SEWER" AND TOTAL LENGTH OF 2x4 USING 2" HIGH BLACK LETTERS. LOCATE SERVICE MARKER AT END OF EACH SERVICE.



(1) INSERT-A-TEE SADDLE FOR CONCRETE PIPE

(2) ROMAC STYLE "CB" SADDLE FOR PVC AND D.I. PIPE

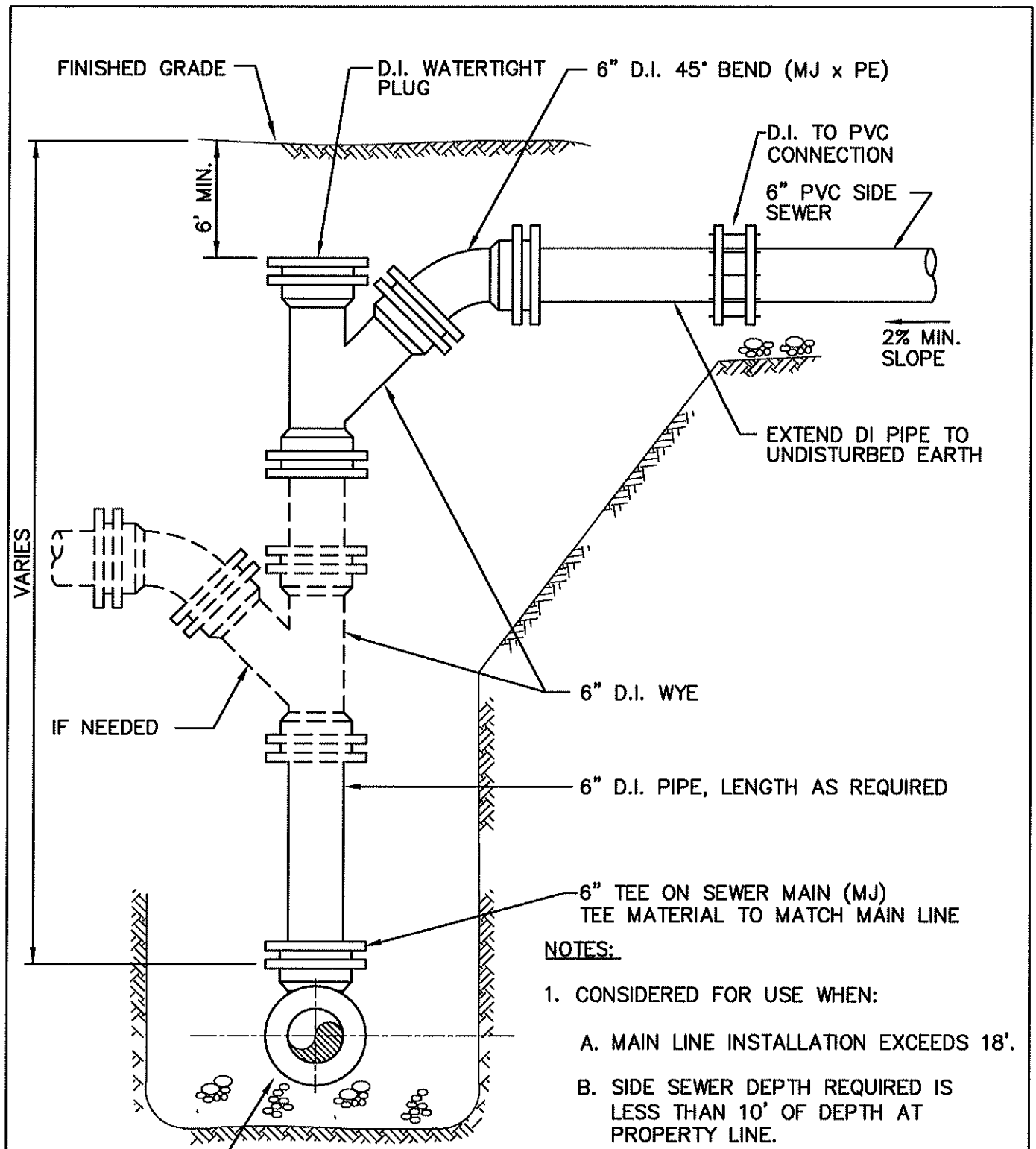
NOTES:

1. SEE STANDARD SIDE SEWER DETAIL V-S11 FOR NEW CONSTRUCTION.
2. DEVELOPER TO PROVIDE ALL MATERIALS, TRAFFIC CONTROL, PERMITS, SHORING AND MISC. WORK AS REQUIRED TO TAP THE MAIN AND INSTALL THE SIDE SEWER.
3. CUT-IN TEES ARE PERMITTED WITH CITY APPROVAL.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S12
SIDE SEWER CONNECTION TO EXISTING MAIN

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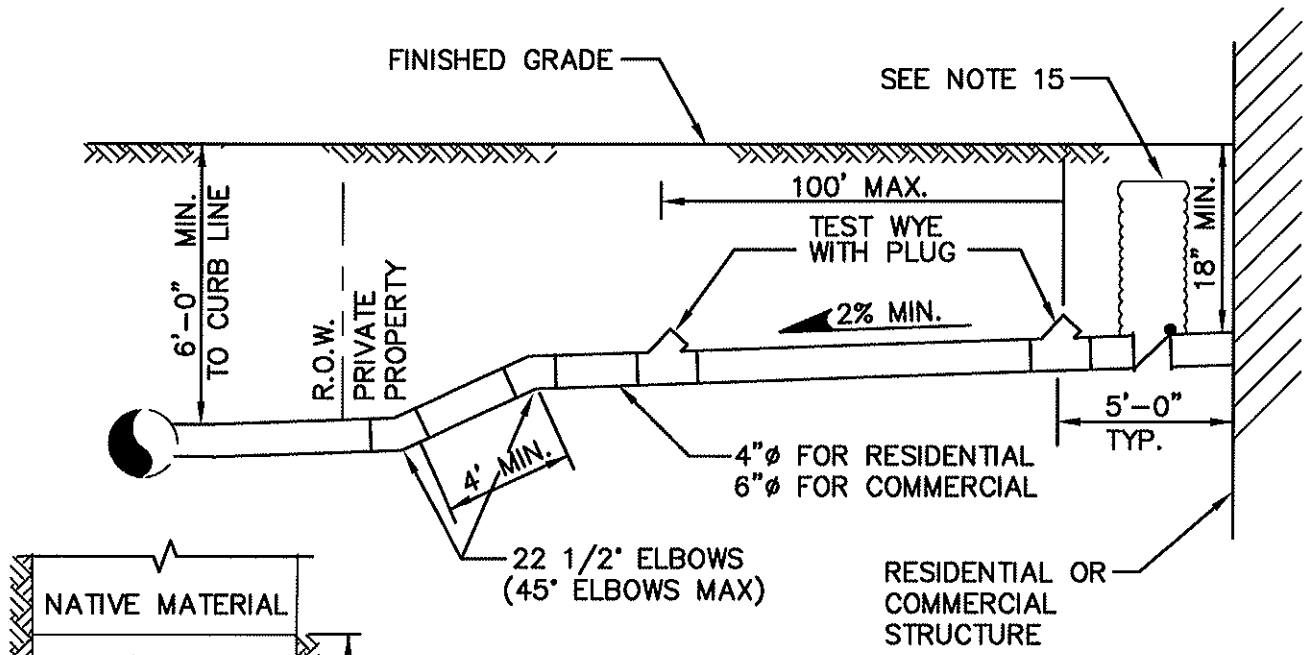
NOTES:

1. CONSIDERED FOR USE WHEN:
   A. MAIN LINE INSTALLATION EXCEEDS 18'.
   B. SIDE SEWER DEPTH REQUIRED IS LESS THAN 10' OF DEPTH AT PROPERTY LINE.

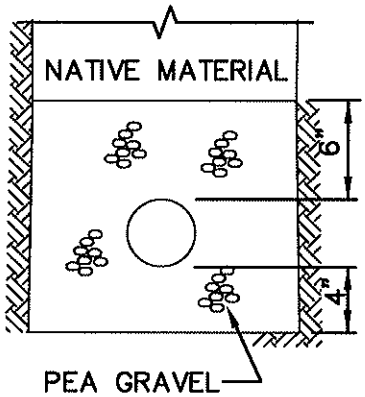
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S13
STANDING SIDE SEWER

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ELEVATION



TRENCH SECTION

NOTES:

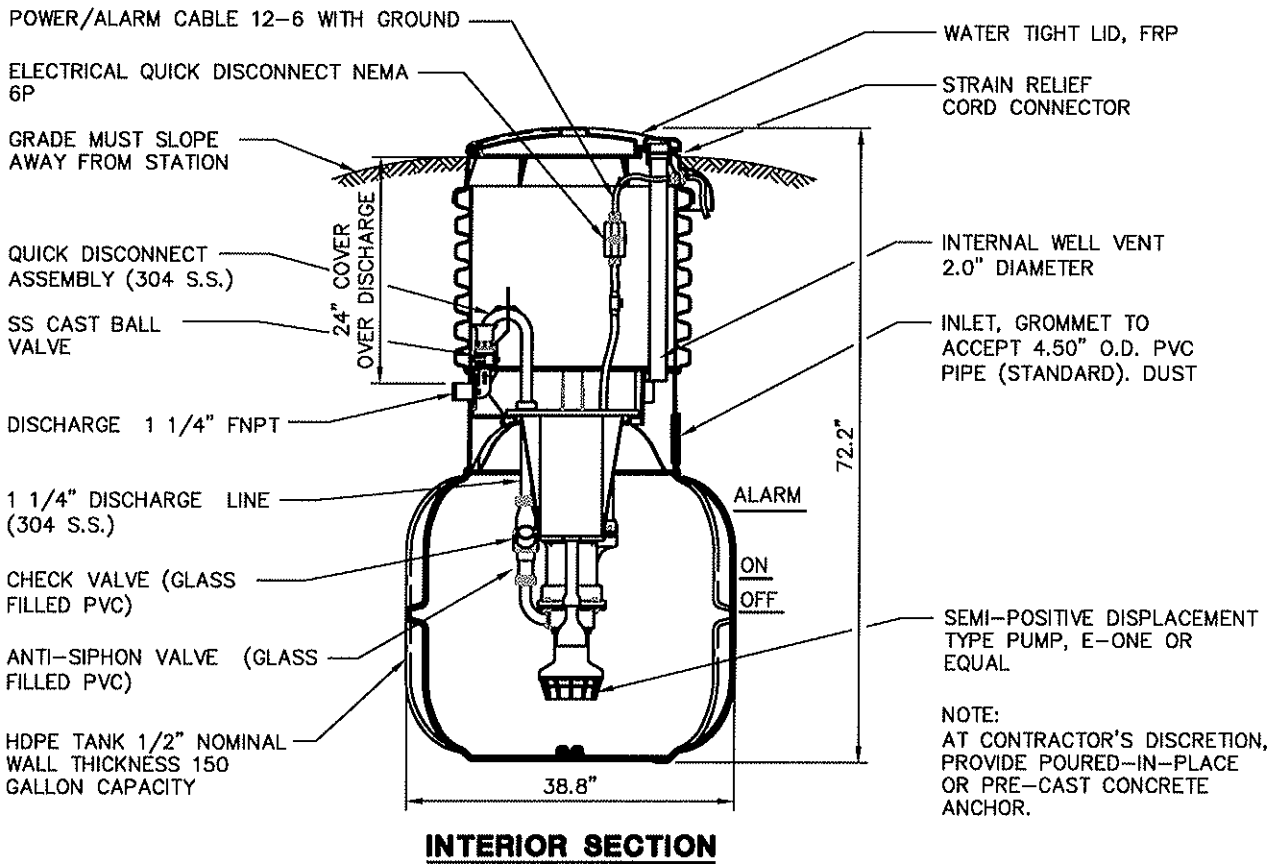
1. ELBOWS SHALL NOT BE GREATER THAN 45°. MINIMUM DISTANCE BETWEEN BENDS SHALL BE 4'.
2. CLEAN OUT IS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90° ACCUMULATED ELBOW/100'
3. BACKFILL FOR PAVED AREA SHALL BE 5/8" MINUS CRUSHED SURFACING TOP COURSE, COMPACTED IN 12" LIFTS
4. ALL PLUMBING OUTLETS SHALL BE CONNECTED TO THE SEWER. NO DOWNSPOUTS OR STORM DRAINAGE MAY BE CONNECTED TO THE SEWER SYSTEM.
5. 18" MINIMUM COVERAGE OVER PRIVATE SIDE SEWER.
6. LAY PIPE IN STRAIGHT LINE BETWEEN BENDS. MAKE ALL CHANGES IN GRADE OR LINE WITH AN ELBOW OR WYE. 90° CHANGE SHALL BE ELBOW AND WYE.
7. 4" SEWER PIPE MINIMUM SIZE ON PRIVATE RESIDENTIAL PROPERTY. 6" SEWER PIPE MIN. SIZE ON COMMERCIAL PROPERTIES. 2% MINIMUM GRADE, 100% MAXIMUM (45°).
8. ALL CONSTRUCTION REQUIRES A PERMIT AND PAYMENT OF FEE, COMPLETE LEGAL DESCRIPTION OF PROPERTY AND DIMENSIONS.
9. AS-BUILT DRAWING SHOWING LOCATION OF SIDE SEWER IN RELATION TO THE HOUSE IS REQUIRED AFTER INSTALLATION.
10. SEE V-S11, V-S12, AND V-S13 FOR SIDE SEWER LATERAL REQUIREMENTS.
11. CONSTRUCTION IN RIGHT-OF-WAY SHALL BE PERFORMED BY A REGISTERED LICENSED CONTRACTOR.
12. RIGHT-OF-WAY RESTORATION SHALL MATCH OR EXCEED THE ORIGINAL CONDITION.
13. PRE-TREATMENT SYSTEMS REQUIRE DESIGN SUBMITTAL STAMPED BY LICENSED ENGINEER.
14. PIPE TO BE BEDDED WITH 3/4" MINUS CRUSHED GRAVEL TO LIMITS SHOWN. COMPACT BEDDING BELOW, ON SIDES AND ON TOP OF PIPE.
15. INSTALL SURFACE ACCESSIBLE BACKWATER VALVE ON ALL SIDE SEWERS WHERE POTENTIAL OCCURS FOR FLOW TO BACK INTO THE PRIVATE SERVICE.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS

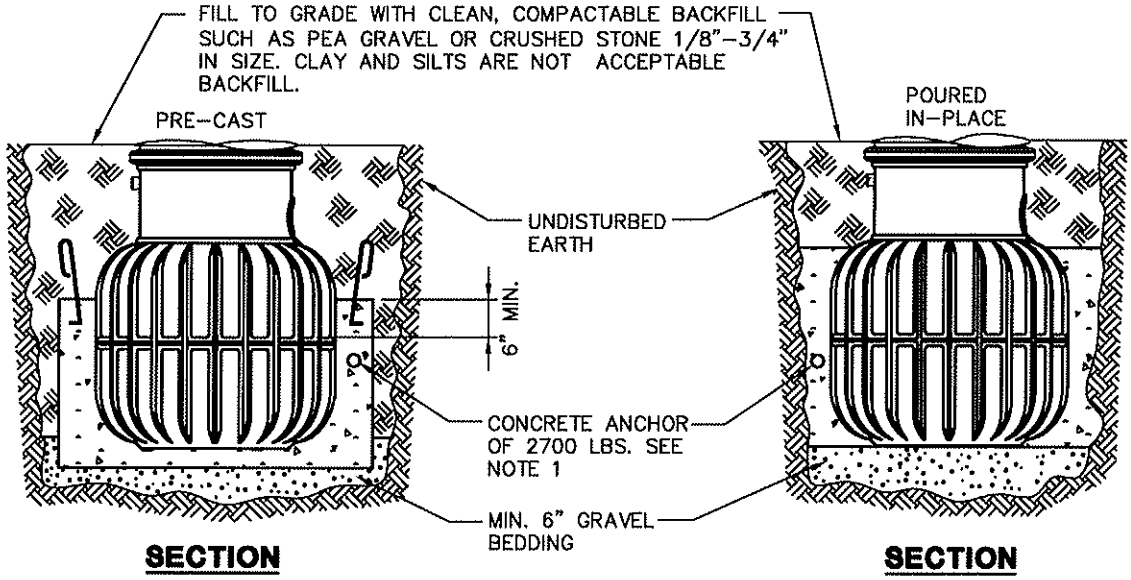
FIGURE V-S14
PRIVATE SIDE SEWER INSTALLATION

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CONSULTING ENGINEERS

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INTERIOR SECTION

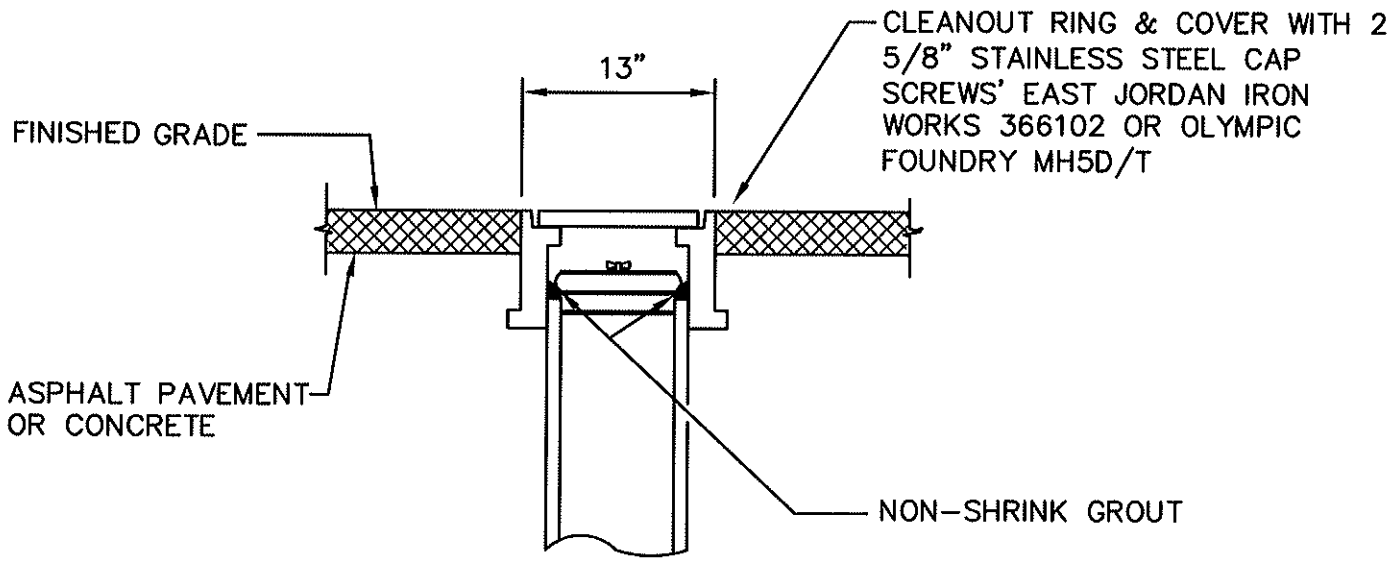


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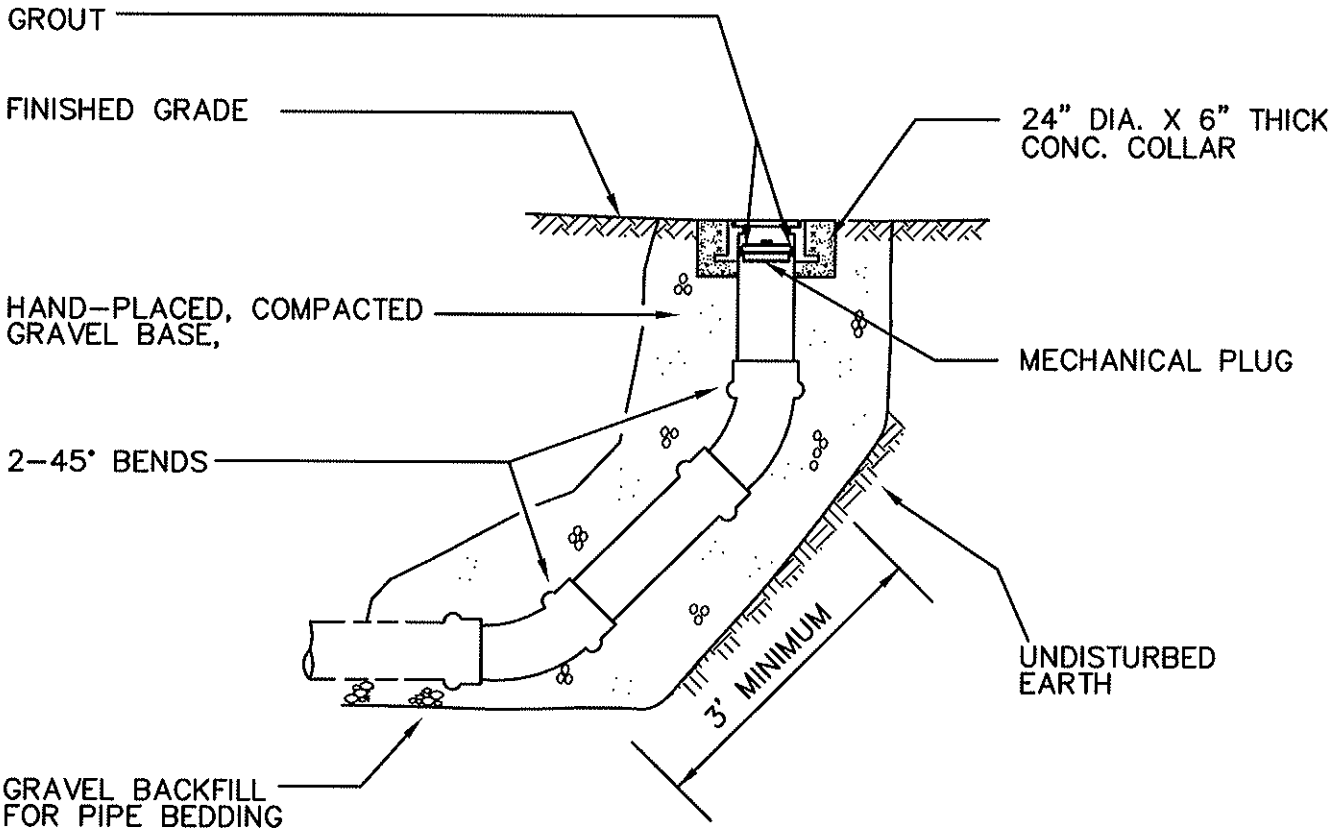
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S15
PRIVATE GRINDER PUMP INSTALLATION

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PAVED



NON-PAVED

NOTES:

1. TO BE USED ON CLEANOUT ACCESS AT STRUCTURE

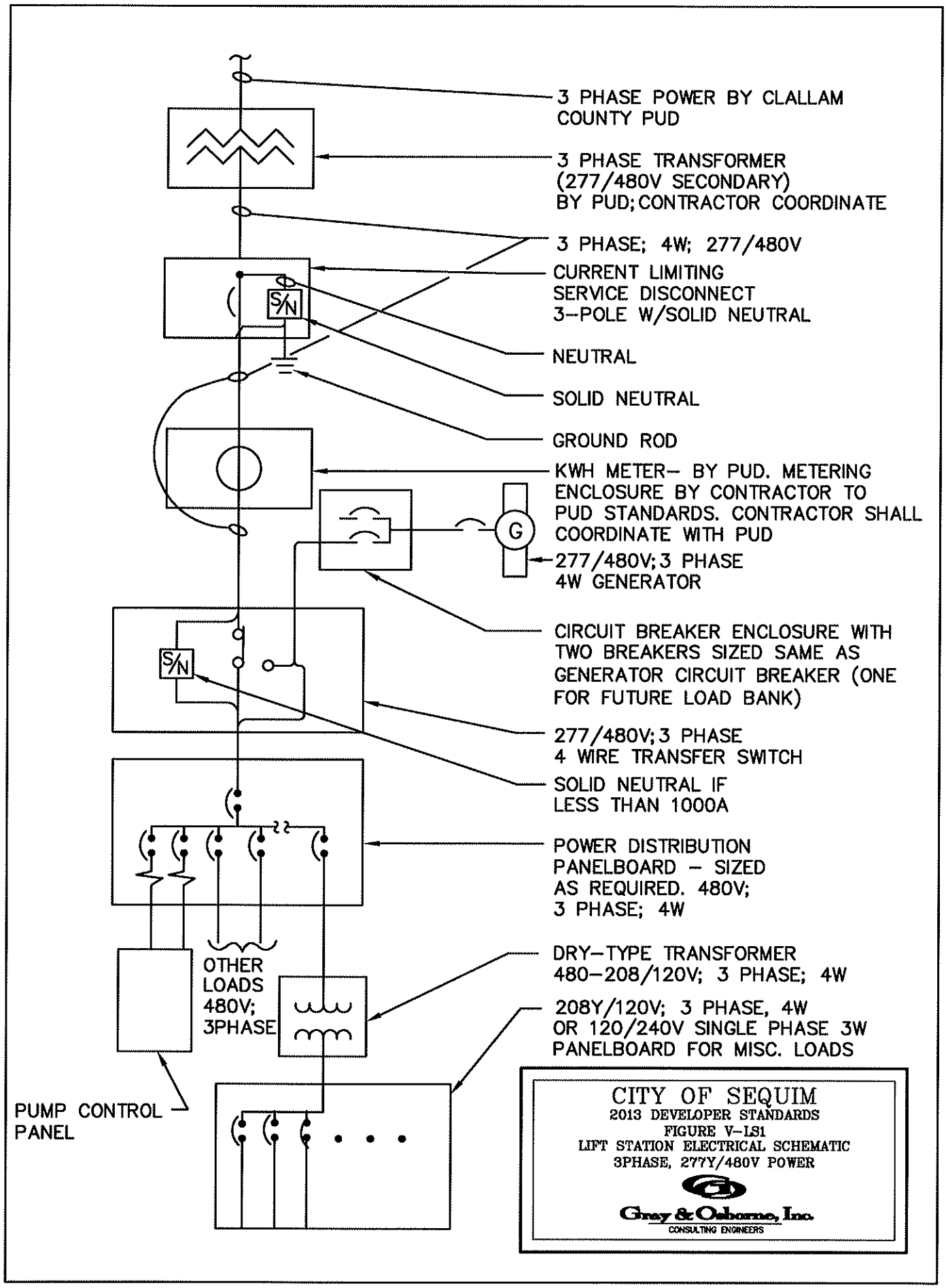
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-S16
SIDE SEWER CLEANOUT

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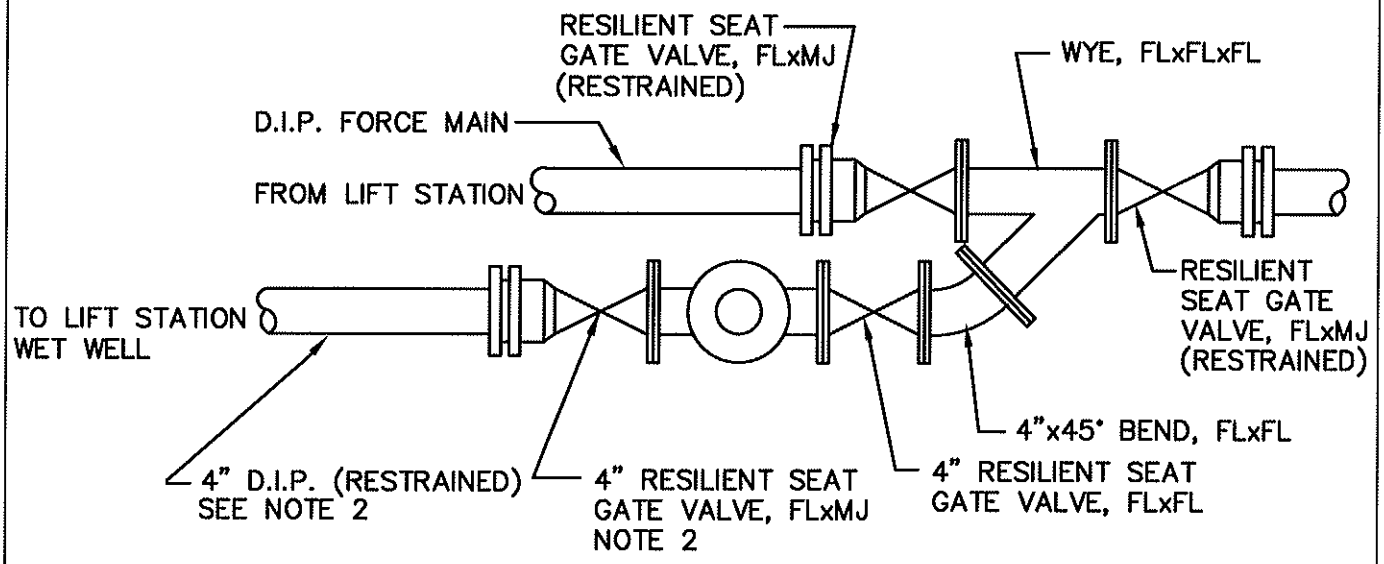
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SEWAGE LIFT STATION

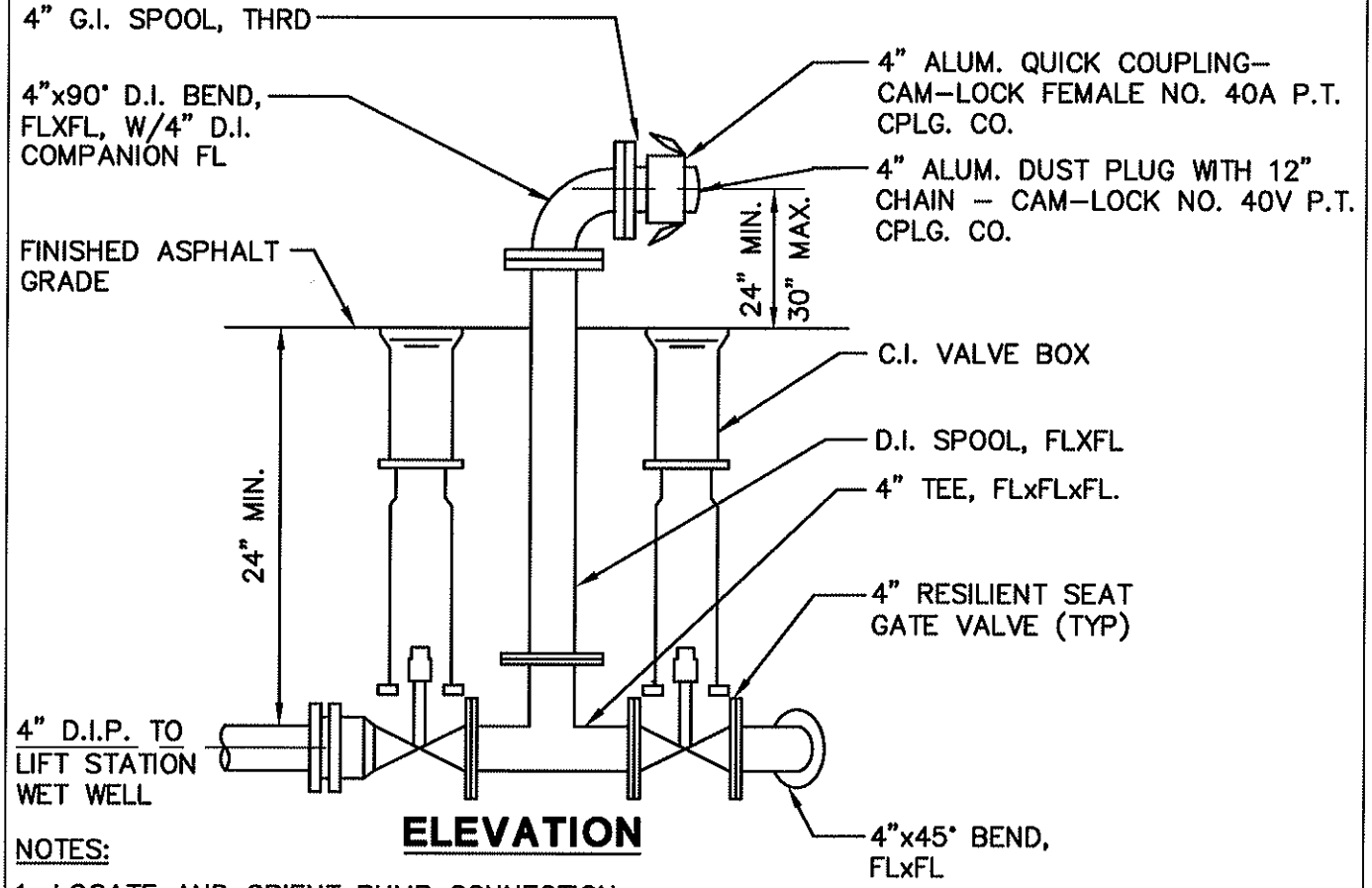
STANDARD DETAILS



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ELEVATION

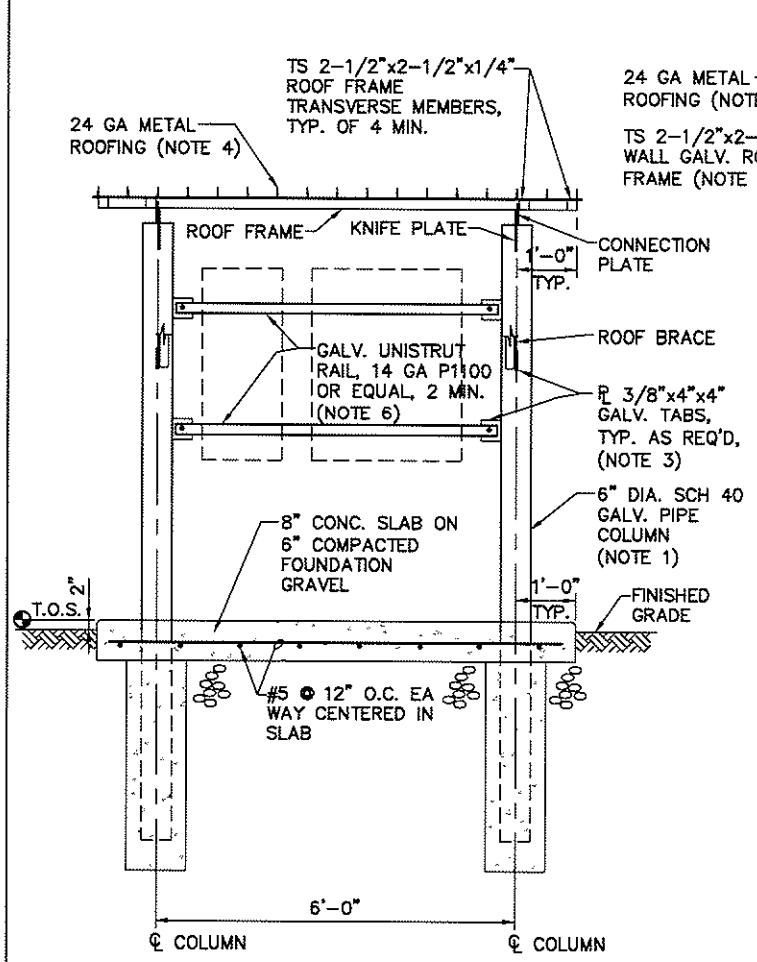
NOTES:

1. LOCATE AND ORIENT PUMP CONNECTION AS DIRECTED BY CITY.
2. PIPE AND FITTINGS TO BE ADJUSTED BASED ON DISTANCE TO WET WELL (FLxPE, OR FLxMJ RESTRAINED)
3. 4" SIZE SHOWN, LARGER SIZE MAY BE REQUIRED TO MEET STATION CAPACITIES.

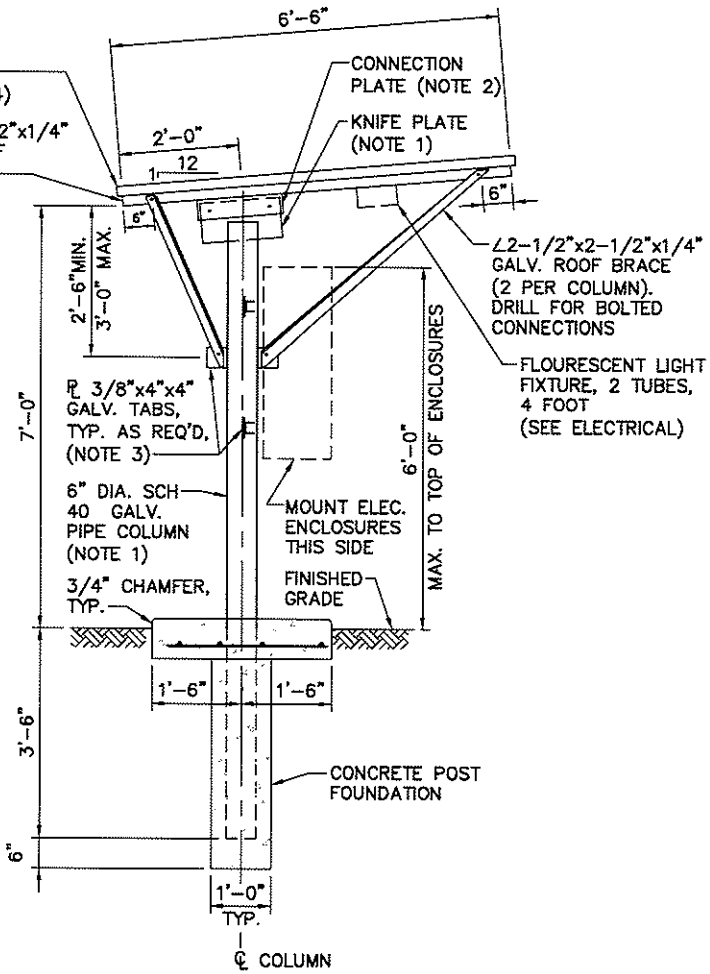
CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V–LS2
EMERGENCY PUMP CONNECTION

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SECTION



ELEVATION

ELECTRICAL RACK NOTES:

1. NOTCH TOP OF PIPE AND ATTACH 3/8"x8"x16" GALV KNIFE PLATE FOR BOLTED ROOF FRAME CONNECTION. CLOSE TOP OF PIPE W/ 1/4" GALV. PLATE. ATTACH TABS (NOTE 3) AS REQUIRED. SHOP WELD.
2. CONSTRUCT ROOF FRAME W/3 LONGITUDINAL MEMBERS AND 4 TRANSVERSE MEMBERS, MINIMUM. ATTACH GALV 3/8" PLATE EACH END FOR BOLTED CONNECTION TO COLUMN KNIFE PLATE (NOTE 6). SHOP WELD.
3. DRILL TABS FOR BOLTED CONNECTION OF ROOF FRAME BRACES AND EQUIPMENT RAILS. SHOP WELD TO 6" COLUMN. RADIUS EXPOSED CORNERS.
4. METAL ROOFING 24 GAUGE, KLIP-R1B BY AEP SPAN OR EQUAL. FOREST GREEN COLOR. ATTACH TO ROOF FRAME PER MFR RECOMMENDATIONS.
5. ALL BOLTED CONNECTIONS TO BE 3/4"ø STAINLESS STEEL. SHOP DRILL ALL HOLES. TOUCH UP ALL WELDS AND HOLES W/COLD GALVANIZING COMPOUND.
6. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PER SPECIFICATIONS.
7. ALL CONNECTIONS SHALL BE WELDED AROUND THE FULL PERIMETER OF THE JOINT, EXCEPT WHERE BOLTED CONNECTIONS ARE INDICATED.

ELECTRICAL RACK DETAIL

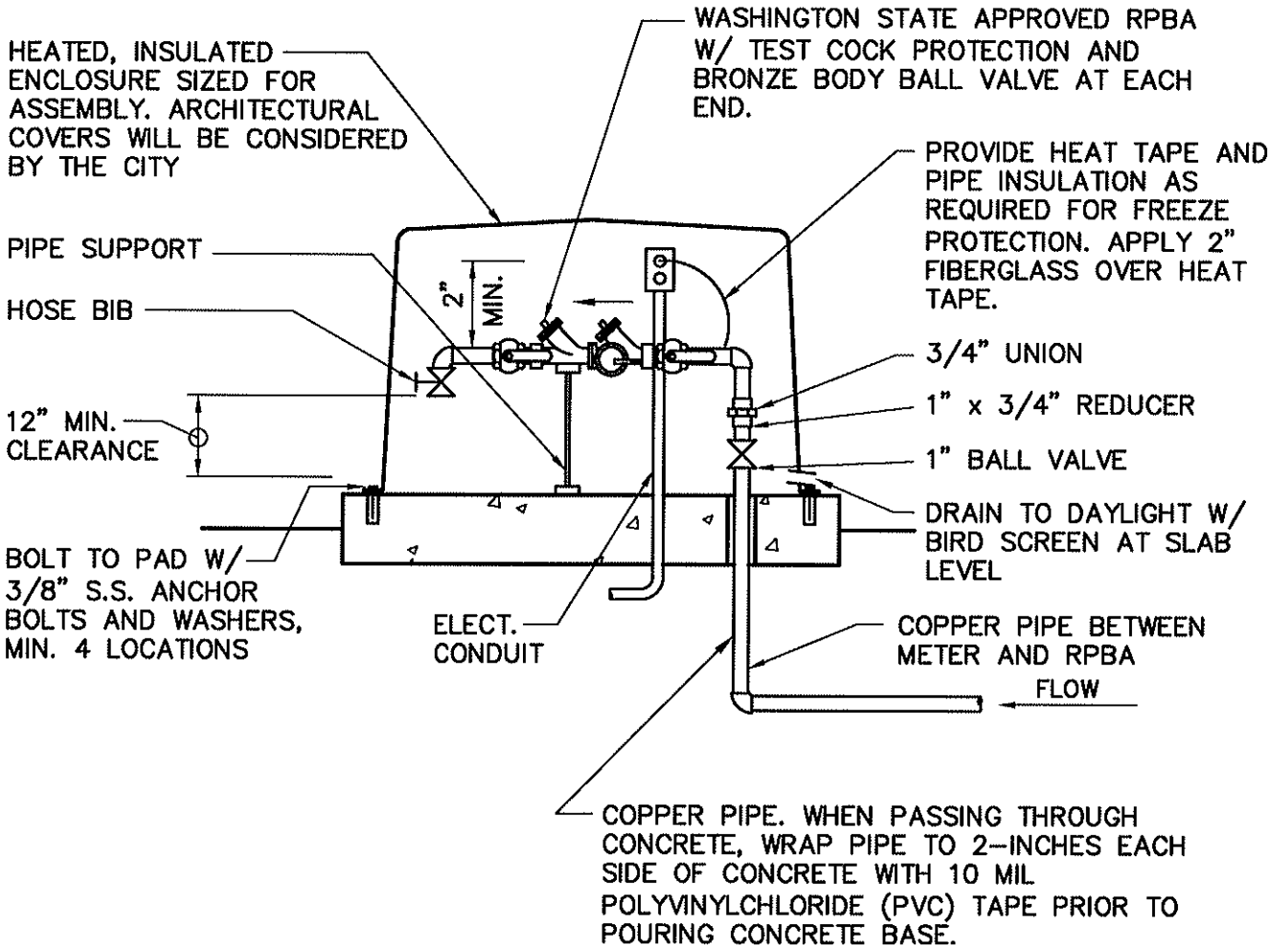
SCALE: 1/2"=1'-0"

3
G-2

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-LS3
ROOF STRUCTURE FOR ELECTRICAL ENCLOSURE

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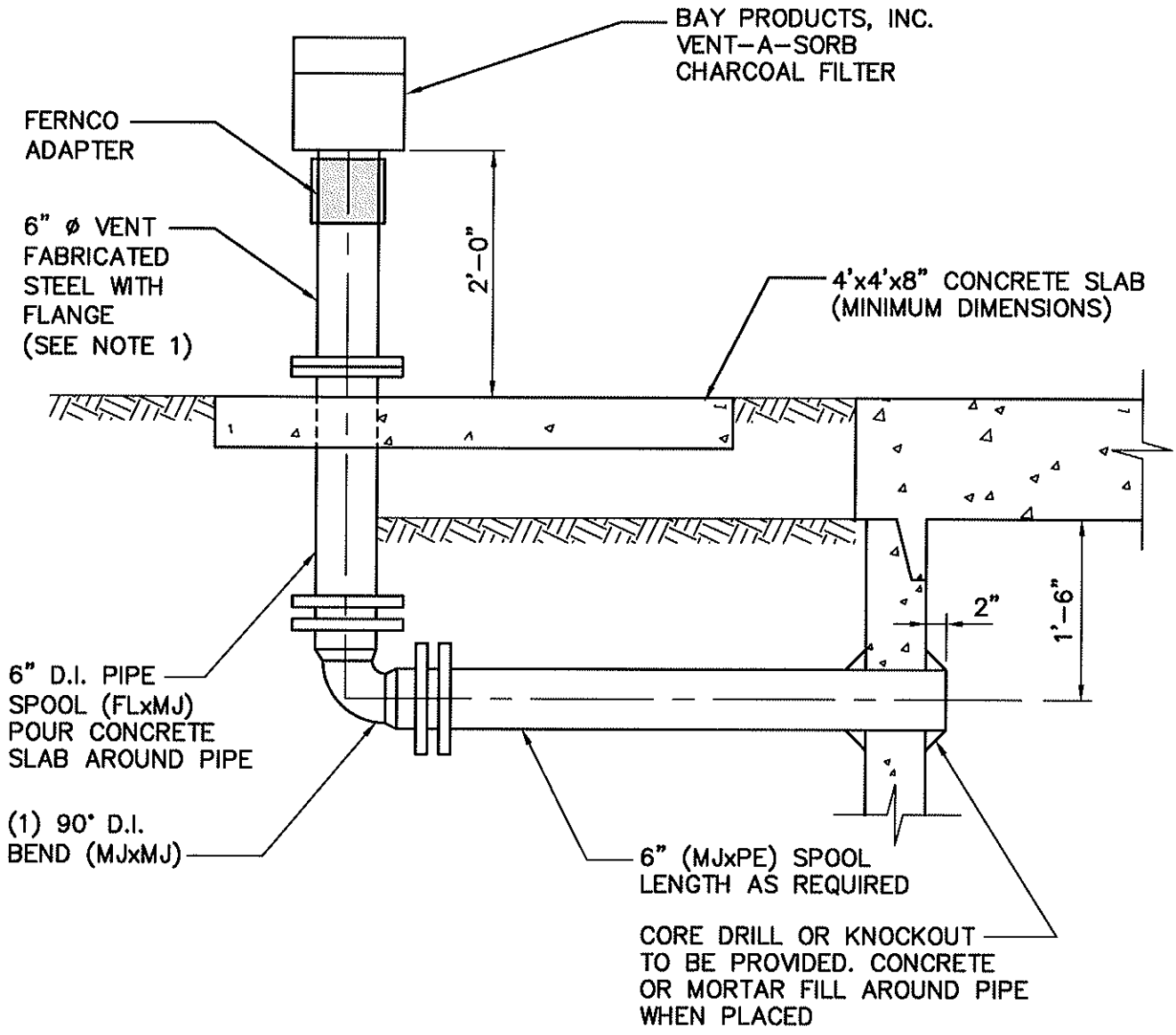
NOTES:

1. CONCRETE TO BE 2500 PSI (MINIMUM) MIX WITH AIR ENTRAINMENT.
2. COMPLETE ALL WORK IN ACCORDANCE WITH STATE, CITY AND MANUFACTURER STANDARDS.
3. SYSTEM SHALL NOT BE PUT INTO SERVICE UNTIL RPBA IS APPROVED BY THE CITY AND TESTED/CERTIFIED BY A WASHINGTON STATE LICENSED TESTER.
4. DIELECTRIC UNIONS SHALL BE USED TO SEPARATE DISSIMILAR MATERIALS.
5. NO BRANCH CONNECTIONS ALLOWED BETWEEN METER AND RPBA.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-LS4
¾" REDUCED PRESSURE BACKFLOW ASSEMBLY

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NOTES:

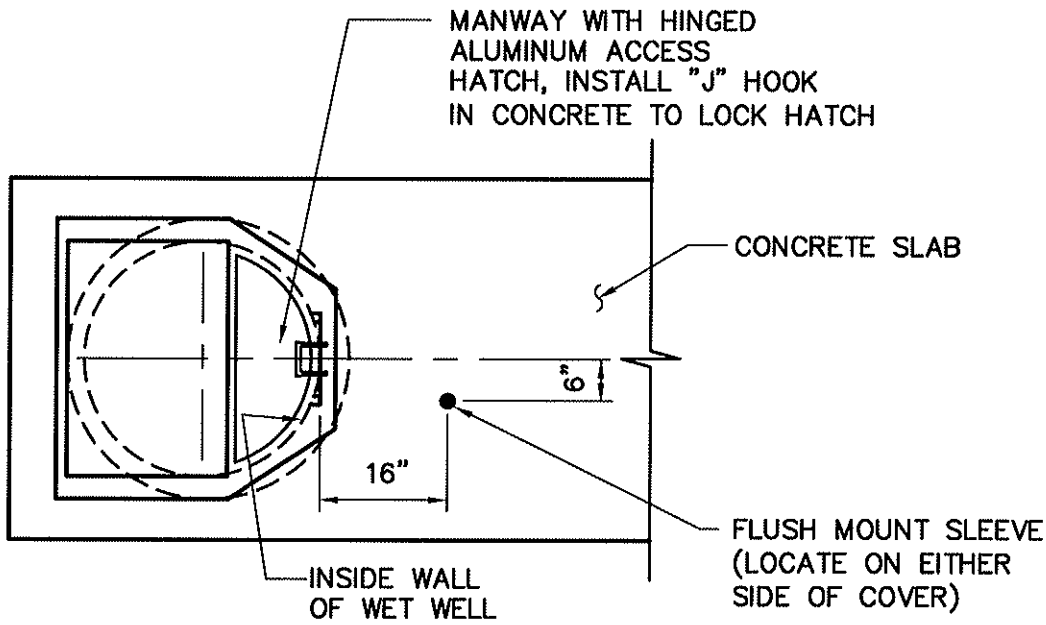
1. HOT DIP GALVANIZE VENT "CANE" AND FLANGE AFTER FABRICATION. AFTER GALVANIZING VENT, PAINT WITH TWO COATS OF KELLY MOORE 6100-855, MACHINE GREEN, OR AS DIRECTED BY THE CITY.

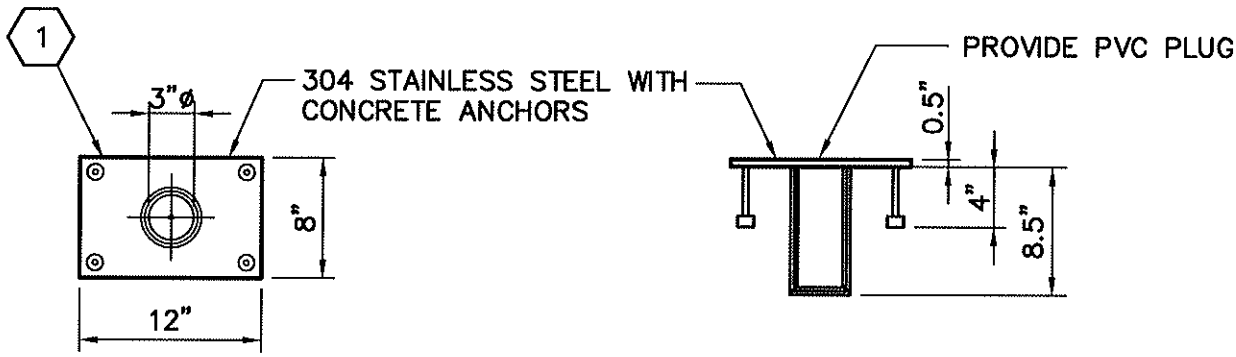
CITY OF SEQUIM
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FIGURE V-LS5
VENT DETAIL

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PLAN **SECTION**

FLUSH MOUNT SLEEVE

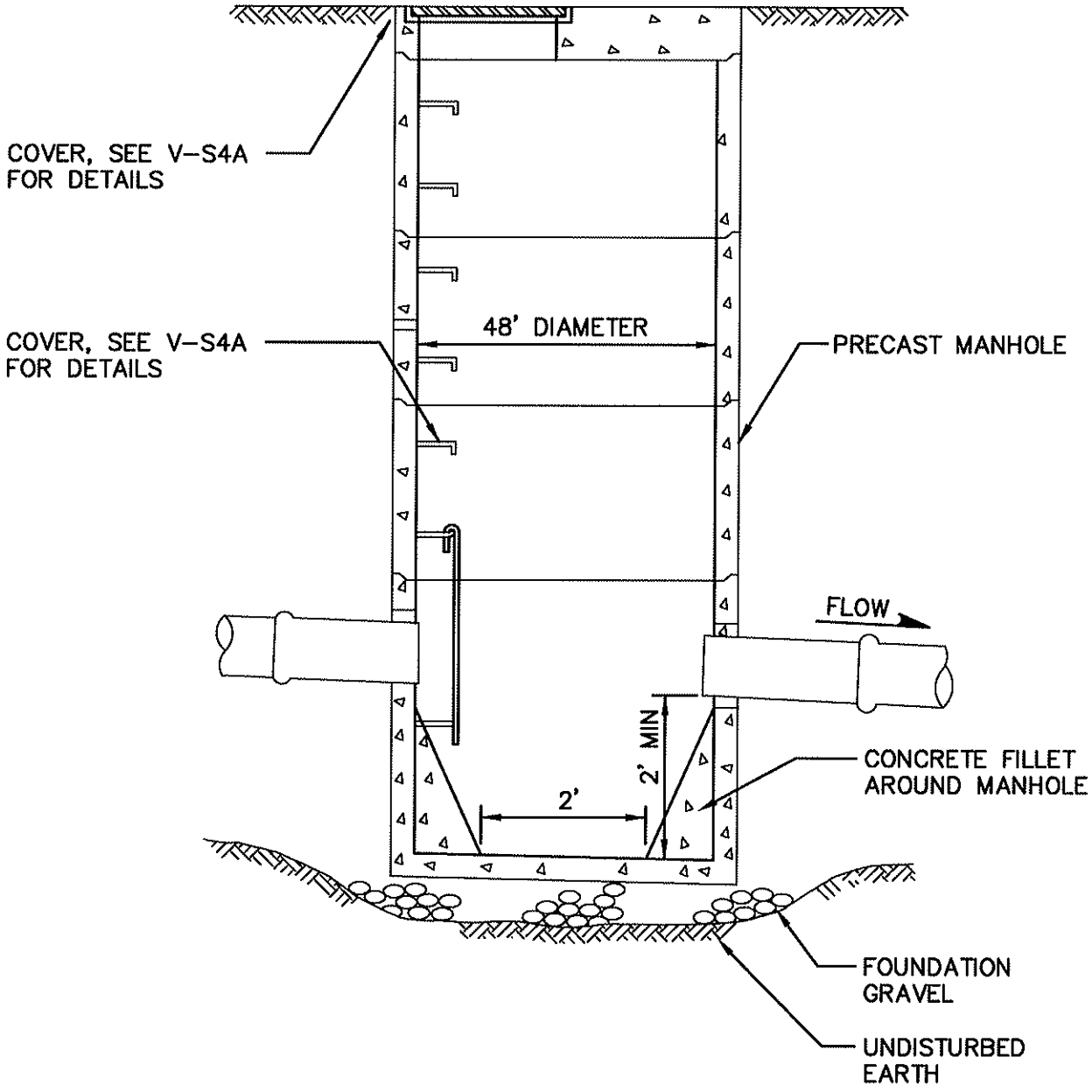
NOT TO SCALE

1 FLUSH MOUNT SLEEVE MODEL 128 BY UNIQUE CONCEPTS LTD.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-LS6
FLUSH MOUNT SLEEVE

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NOTES:

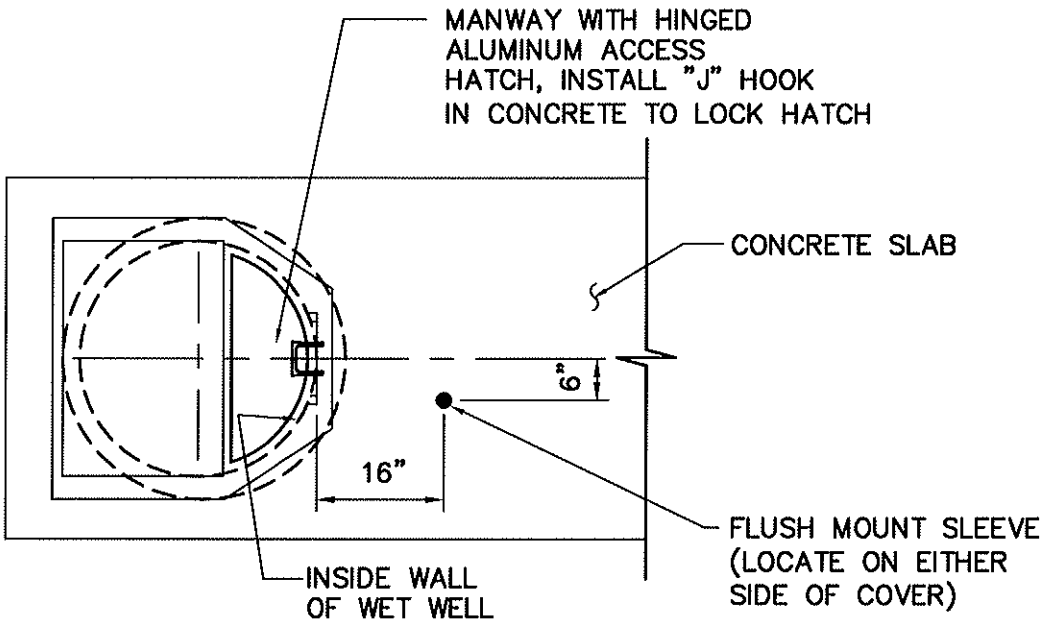
1. SEE STANDARD MANHOLE FOR ADDITIONAL CALLOUTS ON V-S4A AND V-S5.
2. ACCESS HATCH AND MANHOLE STEPS LOCATED AT 45° TO THROUGH FLOW

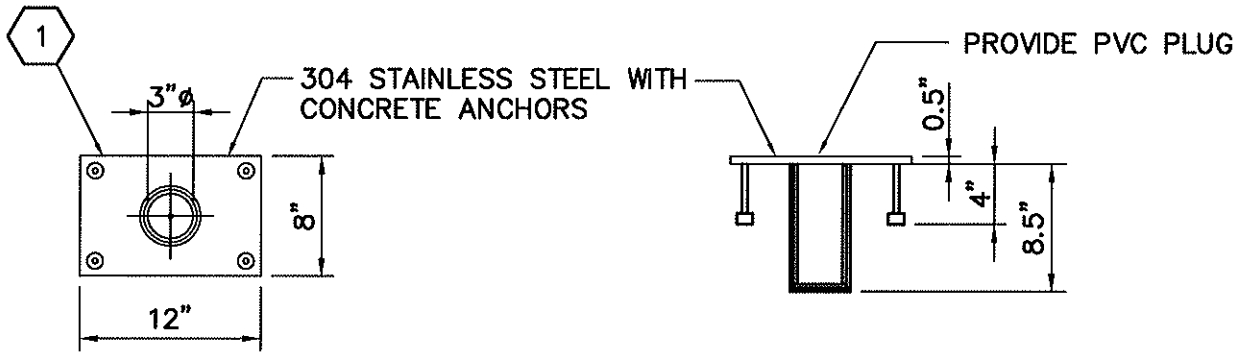
CITY OF SEQUIM
2013 DEVELOPER STANDARDS

FIGURE V-LS7
ROCK CATCH MANHOLE

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CONSULTING ENGINEERS

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PLAN **SECTION**

1 FLUSH MOUNT SLEEVE MODEL 128 BY UNIQUE CONCEPTS LTD.

CITY OF SEQUIM
2013 DEVELOPER STANDARDS
FIGURE V-LS8
FLUSH MOUNT SLEEVE

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CONSULTING ENGINEERS

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APPENDIX K

FINANCIAL ANALYSIS

CHAPTER 1

WATER AND SEWER GENERAL FACILITY CHARGES

INTRODUCTION

This chapter outlines the calculation of the general facility charge, or GFC for the City's water and sewer utilities. A GFC is also commonly referred to as a connection charge or system development charge.

A GFC is a one-time charge paid by a new customer connecting to a utility system. A GFC can include a pro-rata share of the cost of existing facilities (existing facility component) and a pro-rata share of planned facilities (future facility component). The existing facility component offsets the historical contributions from existing customers used to acquire existing assets of benefit to a new customer. The future facility component is a customer's proportional share of the cost of capital improvements required to serve future growth and is intended to minimize the impact to existing customers to fund the construction of facilities due to growth.

This analysis utilizes the following information:

- Water & Sewer comprehensive plans (in progress)
- 2007 GFC and Rate Analysis
- Additional engineering analysis by City staff

Information utilized in the calculation of the GFC regarding capital projects and existing and planned ERUs are based on information in the water and sewer comprehensive plans that are currently being finalized combined with input from the City. Information regarding the original cost of the existing water and sewer systems is based on the analysis from the 2007 GFC and Rate Analysis.

It should be recognized that GFCs are only one aspect of a utility's total source of revenues. The final determination of appropriate GFCs should also consider the impact from rates and contributions from developers in meeting a community's long-term goals for system development and financial viability. Other considerations include the condition of existing facilities, anticipated repair and replacement costs, the timing and need for additional system capacity, and the benefits associated with system growth (e.g., economy of scale).

OVERVIEW

GFCs for water and wastewater are stated in terms of dollars per equivalent residential unit, or ERU. The term, ERU, is used to convert non-residential (i.e., commercial) customers into an equivalent number of residential units based on defined water use or wastewater flow from a single-family residence. This methodology is consistent with the City's existing schedule of GFCs.

The Revised Code of Washington (RCW) addresses some aspects of how a GFC should be determined. However, GFCs are determined primarily based on practices that have been upheld by State courts and industry standards (e.g., American Water Works Association). RCW 35.92.025, which authorizes cities and towns to charge for connecting to a water and wastewater system, requires that the charge be an equitable share of the cost of the existing system and may include up to 10 years of interest charges at a rate commensurate with the rate of interest applicable to the City at the time of construction. RCW 57.08.005, which address connection charges for special purpose districts, also specifically allows districts to charge a pro rata share of the cost of future facilities planned in the next 10 years. An opinion provided by Foster, Pepper, and Shefelman, PLLC concluded that cities might also include costs of future facilities intended to serve growth. Therefore, this analysis includes a pro rata share of planned facilities in addition to existing facilities as part of the equitable share allowed by RCW 35.92.025.

Under RCW 57.08.005, special districts are <u>not</u> allowed to include costs associated with facilities that are funded from grants/donations. In 1999, the Washington State Supreme Court ruled in the case Landmark Development, Inc. versus the City of Roy that cities and towns <u>may</u> include costs associated with facilities funded wholly or in part by grants/donations when calculating a connection charge. Therefore, this analysis includes the costs of all existing facilities that will benefit future customers, regardless of how these assets were funded.

GENERAL FACILITY CHARGE DETERMINATION

The existing and planned facility components of the water and sewer system GFCs are analyzed in this section.

EXISTING FACILITY COMPONENT OF THE WATER AND SEWER GFCS

The pro-rata share of the original cost of existing facilities, or existing facility component, is determined by dividing the cost of existing utility assets that will benefit future customers by the number of existing customers, or ERUs. The City's water and sewer systems have not changed significantly since the study in 2007 other than a major improvement to existing sewer treatment facilities. Therefore the existing facility component of the GFC will be based on the analysis performed in the 2007 GFC and

Rate Study (see attached Technical Memorandum) adjusted for the impact of the recent sewer treatment improvement project.

Table 1 lists the total original costs included in the calculation of the existing facility components of the water and sewer GFCs.

TABLE 1-1
Total Original Costs Included in Water and Sewer GFCs

Existing Asset Costs Included in GFCs	Water	Sewer
Existing Assets included in 2007 GFC (1)	$ 11,860,000	$ 18,335,000
(+) Add 10-years of Accumulated interest (2)	$ 8,290,140	$ 16,483,165
Subtotal Assets from 2007 GFC	**$ 20,150,140**	**$ 34,818,165**
Adjustments to Existing Assets		
Subtotal Assets from 2007 GFC	**$ 20,150,140**	**$ 34,818,165**
(+) Construction costs for 2009 WWTP Expansion	$ -	$ 8,936,600
(+) Design Costs for 2009 WWTP Expansion	$ -	$ 644,500
(+) Construction Management Costs for 2009 WWTP Expansion	$ -	$ 649,200
(-) 2007 SRF Loan Principal	$ -	$ (1,501,637)
(-) 2009 DOE Loan Principal	$ -	$ (5,199,625)
Subtotal Assets	**$ 20,150,140**	**$ 38,347,203**
Total Assets included in GFC	**$ 20,150,140**	**$ 38,347,203**
(1)	These total existing assets costs are as reported in the 2007 GFC and Rate Study.	
(2)	Ten years of accumulated interest is based on an average annual interest rate of 6.99 and 8.99 percent for the water and sewer system, respectively.	

As shown in Table 1-1, the original costs of existing assets that benefit future customers (the first line of data in the table) are from the 2007 GFC & Rate Study. These asset costs are then adjusted for 10 years of accumulated interest as allowed by the RCW. Per the RCW, an interest rate applicable to the time of major system construction is to be used in calculating the 10 years of interest charges. According to the Technical Memorandum, the majority of the water system was installed during the 1980s and 1990s while the majority of the sewer system was installed in the 1980s. Based on a review of historical Treasury Bills returns over 20 years from 1980 to 1999, the average annual bond return was 6.99 percent while the average return from 1980 to 1989 was 8.99 percent. Therefore consistent with the timing of the majority of current assets, the interest rate used in conjunction with water assets is 6.99 percent and 8.99 percent is used with sewer assets.

After adjusting for 10 years of accumulated interest, the asset costs are then adjusted for the recent WWTP expansion project and the current amount of outstanding debt associated with the financing of the expansion. Note that the calculation of the accumulated interest does not include the impact of costs associated with the WWTP expansion since these costs were only recently incurred.

The existing facility components of the water and sewer GFCs can now be calculated based on the total adjusted asset costs listed in Table 1-1 and the total number of existing equivalent residential units (ERUs). According to Table 2-12 in the current Water System Comprehensive Plan the water system will have 5,217 ERUs in 2013. In Table 2-10 of the Sewer System Comprehensive Plan there are 5,300 total ERUs as of 2011 (the most recent year of data). Table 1-2 shows the calculation of the existing facility components of the water and sewer GFCs.

TABLE 1-2
Existing Facility Components of the Water and Sewer GFCs

Existing Facility Component	Water	Sewer
Total Assets Included in GFC	$ 20,150,140	$ 38,347,203
Divided by Total No. of Existing ERUs	5,217	5,300
Existing Facility Component of the GFC ($/ERU)	**$ 3,862**	**$ 7,235**

FUTURE FACILITY COMPONENT OF THE GFC

A GFC may also include a pro–rata share of the cost of future facilities. Special purpose districts are limited to including only those future facilities planned within the next 10 years; however, cities are not similarly limited. In this analysis, all planned capital project are included that will benefit future customers within the twenty year schedules from the respective comprehensive plans (years 2013 through 2028) In this instance, utilizing the twenty year plan of projects and associated ERU growth over the same time period results in a lower GFC than if a 10 year period of planned projects and growth is used instead. The City has elected to utilize this approach under the premise that planned facilities have been designed to meet build out growth (in 20 years) and will operate for at least 20 years and therefore utilizing a 20 year window spreads future capital costs more evenly and thus fairly.

The future facility component is calculated by dividing the total cost of planned capital improvement costs by the number of benefiting customers (or ERUs). Some planned projects such as obtaining new water rights are judged to benefit all customers both existing and future (growth). Other projects such as a pipeline in a new service area only benefit growth. Other projects such as the replacement and upsizing of a serviceable pipeline as a result of growth benefits both existing as well as new customers but unequally since there is also small benefit to existing customers of replacing an existing pipeline with diminished life. Finally some projects such as the replacement of existing water meters provide no benefit to future customers and therefore these projects are excluded from the determination of the GFC.

Tables 1-3 and 1-4 list capital improvement projects planned to occur within the next 20 years. The Tables also identifies if a project will be grant/developer funded, how

much of the project is associated with providing existing service and how much is needed to meet growth, whether the project is included in the GFC, and if the project benefits all customers, some customers, or just new customers. Note that all project costs are assumed to be in 2013 dollars but have been adjusted for 2.5% annual inflation based on the year scheduled in the column titled Inf. Adj. Total. Additionally, projects listed to occur in the last ten years are only increased for inflation through the year 2019 since more definitive years are unavailable.

TABLE 1-3
Planned Facilities Included in the Future Facility Component of the Water GFC

Water Utility	% Grant or Developer Funded	Customers Benefitting from Project	2013	2014	2015	2016	2017	2018	2019 thru 2028	TOTAL	INF. ADJ. TOTAL	Inlcuded in GFC	Projects that Benefit All Customers	Projects Required due to Growth
S-7 Investigate New Water Rights		All	300,000	0	0	0	0	0	0	300,000	300,000	300,000	300,000	0
D-23 Pipe Oversizing		All	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,050,000	1,132,200	1,132,200	1,132,200	0
Complete Meter Replacement		Not included in GFC	50,000	0	0	0	0	0	0	50,000	50,000	0	0	0
Meters Sherwood Complex		Not included in GFC	100,000	0	0	0	0	0	0	100,000	100,000	0	0	0
New Water Rights		All	0	100,000	100,000	100,000	100,000	100,000	0	500,000	538,800	538,800	538,800	0
D-2 Brown Rd WM		Growth	0	0	0	0	0	0	855,000	855,000	991,500	991,500	0	991,500
D-3 5th Ave WM		75% All & 25% Growth	0	0	0	0	0	0	179,000	179,000	207,600	207,600	155,700	51,900
D-5 Norman Str & Eunice Str		75% All & 25% Growth	0	0	0	0	0	0	435,000	435,000	504,500	504,500	378,375	126,125
D-7 Happy Valley Rd		Growth	0	0	0	0	0	0	1,145,000	1,145,000	1,327,800	1,327,800	0	1,327,800
D-11 Fir Str from N 5th Ave to N Sequim Ave		75% All & 25% Growth	200,000	50,000	50,000	404,000	207,000	0	0	911,000	967,400	967,400	725,550	241,850
D-12 Fir Str from N Sequim Ave to N Brown Rd		75% All & 25% Growth	0	0	0	0	182,000	481,140	247,860	911,000	1,032,700	1,032,700	774,525	258,175
D-14 S Sunnyside Ave from Maple Str to E Prairie Str		75% All & 25% Growth	108,000	0	0	0	0	0	0	108,000	108,000	108,000	81,000	27,000
D-15 E Etta Str from Sequim Ave to S Sunnyside Ave		75% All & 25% Growth	100,000	125,000	0	0	0	0	0	225,000	228,100	228,100	171,075	57,025
D-18 Service of Emerald Highlands		Growth	0	23,200	170,800	0	0	0	0	194,000	203,200	203,200	0	203,200
D-19 Pressure Relief Valves		All	0	0	90,000	0	0	0	0	90,000	94,600	94,600	94,600	0
D-20 Craftsman Court PRV Station		Growth	0	0	50,000	0	0	0	0	50,000	52,500	52,500	0	52,500
D-23 Asbestos Cement/Galv Iron WM Repl		All	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000	2,200,000	2,437,300	2,437,300	2,437,300	0
D-24 E Maple Str from S Sequim Ave to S Sunnyside Ave		75% All & 25% Growth	0	18,900	139,100	0	0	0	0	158,000	165,500	165,500	124,125	41,375
D-25 Connection across S 3rd Ave at Sycamore Str		All	45,000	0	0	0	0	0	0	45,000	45,000	45,000	45,000	0
D-26 Isolation Valves on Washington Str from 5th to Sequim Aves		All	0	15,300	128,000	0	0	0	0	143,300	150,200	150,200	150,200	0
D-27 West Prairie from S Sequim to S 2nd		75% All & 25% Growth	218,000	0	0	0	0	0	0	218,000	218,000	218,000	163,500	54,500
BS-2 5th & McCurdy BS Improvements		All	0	34,000	250,000	0	0	0	0	284,000	297,600	297,600	297,600	0
BS-3 600 gpm BS at Simdars Rd		All	0	0	0	49,800	365,200	0	0	415,000	456,700	456,700	456,700	0
ST-1 - Happy Valley Reservoir		Growth	0	0	0	0	0	0	3,494,000	3,494,000	4,052,000	4,052,000	0	4,052,000
ST-2 Port Williams Reservoir Study		All	0	45,000	0	0	0	0	0	45,000	46,100	46,100	46,100	0
ST-3 420 Reservoir Mixing System		All	0	9,700	71,300	0	0	0	0	81,000	84,800	84,800	84,800	0
ST-4 study for Reuse of 500,000 Gallon Reservoir		All	0	25,000	0	0	0	0	0	25,000	25,600	25,600	25,600	0
S-1 Port Williams Well No.4		All (Growth?)	0	730,000	0	0	0	0	0	730,000	748,300	748,300	0	748,300
S-2 New Well		All (Growth?)	0	0	0	0	0	0	730,000	730,000	846,600	846,600	0	846,600
S-3 Investigate Additional Source of Supply		All	0	0	50,000	0	0	0	0	50,000	52,500	52,500	52,500	0
S-4 Study & Redevelopment of Wells No.2 & No.3		All	0	150,000	0	0	0	0	0	150,000	153,800	153,800	153,800	0
S-5 Replacement of Siberhorn Wells No. 2 & No.3		All	0	0	0	0	0	0	733,000	733,000	850,100	850,100	850,100	0
S-6 Infiltration Gallery Improvements		All	0	0	0	0	79,500	553,500	0	633,000	714,000	714,000	714,000	0
MI-1 Portable Generator Load Bank		All	25,000	0	0	0	0	0	0	25,000	25,000	25,000	25,000	0
MI-2 SCADA Upgrade Report		All	0	50,000	0	0	0	0	0	50,000	51,300	51,300	51,300	0
MI-3 Fixed Base Automatic Meter Reading Syst		All	115,000	115,000	0	0	0	0	0	230,000	232,900	232,900	232,900	0
D-1 Hammond Str WM	100%	Not included in GFC	873,000	0	0	0	0	0	0	873,000	873,000	0	0	0
D-4 Reservoir Rd & 7th Ave WM	100%	Not included in GFC	0	0	0	64,000	470,000	0	0	534,000	587,700	0	0	0
D-6 7th Ave WM	100%	Not included in GFC	0	0	0	0	0	0	818,000	818,000	948,600	0	0	0
D-8 Washington Str WM	100%	Not included in GFC	0	0	0	0	0	0	759,000	759,000	880,200	0	0	0
D-9 West Sequim Bay WM	100%	Not included in GFC	0	0	0	0	0	0	1,015,000	1,015,000	1,177,100	0	0	0
D-10 Washington HarborLoop WM	100%	Not included in GFC	0	0	0	0	0	0	1,140,000	1,140,000	1,322,100	0	0	0
D-16 Marlo Dr W from existing main to River Rd	100%	Not included in GFC	0	0	0	0	0	0	246,000	246,000	285,300	0	0	0
D-17 W Sewuim Bay Rd from Battelle to connect with Marina Water Syst	100%	Not included in GFC	0	0	0	0	0	0	708,000	708,000	821,100	0	0	0
D-21 S Lee Chatsfield to Espeth Way	100%	Not included in GFC	0	0	0	0	0	0	149,000	149,000	172,800	0	0	0
D-13 Bron Rd from E Fir Str to E Washington Str	50%	75% All & 25% Growth	0	0	0	63,600	466,400	0	0	530,000	583,300	583,300	437,475	145,825
D-28 South 7th Ave from Silberhorn to McCurdy	100%	Not included in GFC	0	0	0	0	0	0	411,000	411,000	476,600	0	0	0
BS-1 500 gpm BS and PRVs	100%	Not included in GFC	0	0	0	0	0	0	471,000	471,000	546,200	0	0	0
D-22 Washington Harbour Rd to Washington Harbor Loop	50%	All	0	0	0	0	0	0	303,000	303,000	351,400	351,400	351,400	0
Economic Development		Not included in GFC	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,600,000	1,798,500	0	0	0
Allocations		Not included in GFC	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000	3,200,000	3,597,000	0	0	0
TOTAL			**$2,784,000**	**$2,141,100**	**$1,749,200**	**$1,331,400**	**$2,520,100**	**$1,784,640**	**$17,988,860**	**$ 30,299,300**	**$ 33,913,100**	**$ 20,276,900**	**$ 11,051,225**	**$ 9,225,675**

TABLE 1-4
Planned Facilities Included in the Future Facility Component of the Sewer GFC

Wastewater Utility	% Developer Funded	Customers Benefitting from Project	2013	2014	2015	2016	2017	2018	2019 thru 2028	TOTAL	INF. ADJ. TOTAL	Inlcuded in GFC	Projects that Benefit All Customers	Projects Required due to Growth
W-1 Aux Generator Loadbanks		All	0	58,000	0	0	0	0	0	58,000	59,500	59,500	59,500	0
W-2 WRF Headworks Modifications #1		All	0	270,000	0	0	0	0	0	270,000	276,800	276,800	276,800	0
W-3 Equalization Basin Aeration Syst Improvements		All	0	54,000	0	0	0	0	0	54,000	55,400	55,400	55,400	0
W-4 Grit Removal Systm Replacement		All	0	280,000	0	0	0	0	0	280,000	287,000	287,000	287,000	0
W-5 Aerobic Digester Aeration System Improvements		All	0	75,000	0	0	0	0	615,000	690,000	790,100	790,100	790,100	0
W-6 Purchase New Land near WRF		All	0	29,500	165,500	0	0	0	0	195,000	204,100	204,100	204,100	0
W-7 Class A Biosolids Handling & Distribution Center		All	0	0	0	75,000	78,000	0	1,167,000	1,320,000	1,520,300	1,520,300	1,520,300	0
W-8 Aerobics Digester capacity Upgrades		All	0	0	0	211,000	0	0	1,819,000	2,030,000	2,336,700	2,336,700	2,336,700	0
W-10 WRF Headworks Modifications #2		All	0	0	0	0	0	0	290,000	290,000	336,300	336,300	336,300	0
RW-1 WRF Recirculation Booster Pump		All	0	25,000	0	0	0	0	0	25,000	25,600	25,600	25,600	0
CS-1 Cedar Str Sewer Improvements		75% All & 25% Growth	0	142,000	1,058,000	0	0	0	0	1,200,000	1,257,200	1,257,200	942,900	314,300
CS-2 Etta Str Sewer Improvements		75% All & 25% Growth	0	156,000	0	0	0	0	0	156,000	159,900	159,900	119,925	39,975
CS-23 DOE Run Lift Station		All	0	70,000	510,000	0	0	0	0	580,000	607,600	607,600	607,600	0
CS-4 Outfall Pipeline Repair/Replc		All	0	0	0	0	0	0	1,100,000	1,100,000	1,275,700	1,275,700	1,275,700	0
CS-5 East Sequim Sewer Improvement #1	100%	Not included in GFC	0	0	0	0	0	0	880,000	880,000	1,020,500	0	0	0
CS-6 Sequim Bay Lodge & State Park Pressure Main Impr		All	0	90,000	0	0	0	0	0	90,000	92,300	92,300	92,300	0
CS-7 WRF Influent Trunk Line Pipeline Repair/Repl		All	0	0	166,000	1,234,000	0	0	0	1,400,000	1,503,300	1,503,300	1,503,300	0
CS-8 Fir Str Sewer Impr		75% All & 25% Growth	0	62,000	62,000	645,000	331,000	0	0	1,100,000	1,188,700	1,188,700	891,525	297,175
CS-9 Sunnyside Str Sewer Impr		75% All & 25% Growth	0	81,000	594,000	0	0	0	0	675,000	707,100	707,100	530,325	176,775
CS-10 East Sequim Sewer Impr #2	100%	Not included in GFC	0	0	0	0	0	0	650,000	650,000	753,800	0	0	0
CS-11 East Sequim Sewer Impr #3	100%	Not included in GFC	0	0	0	0	0	0	2,100,000	2,100,000	2,435,400	0	0	0
CS-12 Hammond Str Sewer Extension	100%	Not included in GFC	360,000	0	0	0	0	0	0	360,000	360,000	0	0	0
CS-13 Blake Str Sewer Impr	100%	Not included in GFC	0	0	0	43,000	317,000	0	0	360,000	396,200	0	0	0
OM-1 Vactor Truck Replacement		All	450,000	0	0	0	0	0	0	450,000	450,000	450,000	450,000	0
OM-2 collection system Survey GIS Mapping		All	0	40,000	0	0	0	0	0	40,000	41,000	41,000	41,000	0
East Fir Sewer Replacement(match timing to Water D-12)		75% All & 25% Growth	0	0	0	0	201,000	976,140	502,860	1,680,000	1,909,500	1,909,500	1,432,125	477,375
WRF Reclaimed Water Pumping Facility Improvements		All	0	0	0	0	0	0	537,400	537,400	623,200	623,200	623,200	0
RW-2 Rapid Infiltration Basin Alternative B: Slotted/Perforated Pipe		don't include in GFC	0	0	0	0	0	0	1,278,900	1,278,900	1,483,100	0	0	0
RW-3 High Pressure Zone Expansion		don't include in GFC	0	0	0	0	0	0	1,094,600	1,094,600	1,269,400	0	0	0
RW-4 Overall Network Expansion		don't include in GFC	0	0	0	0	0	0	2,865,300	2,865,300	3,322,900	0	0	0
Major Repair/Oversizing		Not included in GFC	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,400,000	1,509,500	0	0	0
Reclaimed Water Project		All	94,000	60,000	0	0	0	0	0	154,000	155,500	155,500	155,500	0
Regionalization		All	25,000	25,000	25,000	25,000	25,000	25,000	100,000	250,000	275,700	275,700	275,700	0
MI-3 Fixed Base Automatic Meter Reading Syst		All	115,000	115,000	0	0	0	0	0	230,000	232,900	232,900	232,900	0
Economic Development		Not included in GFC	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,600,000	1,798,500	0	0	0
Allocations		Not included in GFC	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000	3,200,000	3,597,000	0	0	0
TOTAL			**$1,544,000**	**$2,132,500**	**$3,080,500**	**$2,733,000**	**$1,452,000**	**$1,501,140**	**$18,200,060**	**$ 30,643,200**	**$ 34,317,700**	**$ 16,371,400**	**$ 15,065,800**	**$ 1,305,600**

Table 1-5 presents the future facility components of the proposed water and sewer GFCs segregated by capital costs associated with just benefitting growth and costs that benefit all customers. According to Table 2-12 in the current Water System Comprehensive Plan the water system will have 6,452 ERUs in 2028 or a growth of 1,235 ERUs. In Table 2-10 of the Sewer System Comprehensive Plan there will be 7,327 total ERUs in2028 or a growth of 2,027 ERUs.

TABLE 1-5
Future Facility Components of the Water & Sewer GFCs

Future Facility Components	Water	Sewer
Total Planned Improvement Costs that Benefit All Customers	$ 11,051,225	$ 15,065,800
Divided by Total No. of All ERUs in 2032	8,187	9,874
	$ 1,350	**$ 1,526**
Total Planned Improvement Costs that Benefit Growth	$ 9,225,675	$ 1,305,600
Divided by Total No. of Growth in ERUs from 2013 to 2022	2,970	4,574
	$ 3,106	**$ 285**

TOTAL PROPOSED WATER & SEWER GFCS

Table 1-6 summarizes the total GFCs for the water and sewer utilities based on the existing components as listed in Table 1-2 and the future facility components listed in Table 1-5.

TABLE 1-6
Total Water & Sewer GFCs

GFC Components	Water	Sewer
Existing Facility Component of GFC	$ 3,862	$ 7,235
Future Facility Component of GFC associated with benefit to all customers	$ 1,350	$ 1,526
Future Facility Component of GFC associated with benefit to growth	$ 3,106	$ 285
Total GFC ($/ERU)	**$ 8,320**	**$ 9,050**

The City has elected to recommend a phased implementation of planned GFC increases over the next 6 years. Table 1-7 lists both existing GFCs and proposed GFCs for each year from 2013 through 2018. Note that the ending amount of the water GFC in Table 1-7 is less than the total amount listed in Table 1-6 and therefore the City may elect to increase the water GFC further in 2019 and beyond.

TABLE 1-7
Schedules of Planned GFC Increases

Utility	Existing GFC	2014	2015	2016	2017	2018
Water	$ 5,850	$ 6,100	$ 6,350	$ 6,600	$ 6,850	$ 7,100
Sewer	$ 7,800	$ 8,050	$ 8,300	$ 8,550	$ 8,800	$ 9,050

CHAPTER 2

WATER AND SEWER REVENUE REQUIREMENTS

OVERVIEW

This chapter utilizes a multi-year budget forecast of both operational and capital revenues and expenses to determine an annual amount of rate revenues required to fund operations, debt, and capital expenses while maintaining acceptable reserve levels.

REVENUE REQUIREMENTS ANALYSIS

At a high level, only four types of utility cash flows must be defined in order to completely describe the financial picture of a utility. These cash flows include expenses and revenues that are associated with running a system (operational) and financing the replacement and improvement of facilities (capital). A revenue requirements analysis is in practical terms the determination of the level of needed operational revenues and more succinctly revenues from monthly rates since rate revenues typically make up 90% of total system revenues. Some utilities can generate higher proportions of revenues from GFCs but these revenues are volatile and it is unwise to use these capital revenues to fund operations on anything other than a temporary basis. Since both operational and capital revenues and expenses must balance each other the total revenue requirements of the system (rate revenues) can be determined by netting the combination of all other revenues besides rate revenues with operational and capital expenses.

OPERATIONAL REVENUES AND EXPENSES

Tables 2-1 and 2-2 provide budget forecasts from 2013 through 2018 for the water and sewer utilities. The Tables include a baseline budget amount in the first column that is from the City's 2013 budget and is then repeated under the column for the year 2013 revenues and expenses. These baseline amounts are then annually adjusted for various inflationary factors as well as growth to create a forecast of revenues for 2014 through 2018. Note that as shown in the tables there is a slight discrepancy between the total baseline expenses and total expenses in 2013 as a result of the model using formulas to determine tax expenses as opposed to using the City's baseline amount in the first year of the projection for taxes.

Both budget forecasts rely on the following annual inflationary adjustment factors to project 2013 expenses to later years:

- General inflation – 2.7%/year
- Cost of living adjustments (salary increases) – 3.0%/year
- Benefits inflation – 6.3%/year

- Electrical cost inflation – 5%/year
- Insurance cost inflation – 5%/year

In addition the water and sewer model forecasts utilize state water and sewer utility tax rates and the B&O tax rate applied to forecasted revenues to estimate future tax expenses. Both models also utilize growth to increase future rate revenues, and expenses associated with flows such as treatment plant electrical costs and pumping costs. In consultation with City staff it was decided to utilize an annual growth rate of 50 new ERUs (equivalent residential units) for both utilities.

EXISTING ANNUAL DEBT PAYMENTS

The operational analysis includes annual debt costs with operating expenses in order to facilitate presentation of the fact that Sequim pays annual debt expenses from operating revenues. The water and sewer utilities are assumed to begin paying their respective shares of the annual cost of the planned City hall building in 2014. The water utility has no other debt obligations while the sewer utility has two existing loans through the Department of Ecology and State Revolving Loan Fund for the last WWTP expansion project.

CAPITAL REVENUES AND EXPENSES

The water and sewer utilities generate capital revenue from contributions in aid of construction (CIAC) consisting of grant funds and donated facilities, interest earnings from cash reserves, and GFCs paid by new connections to the system (growth). This analysis assumes annual GFC revenue based on 50 new water and sewer ERUs per year multiplied by the GFC in a given year from the Schedule of GFCs in Chapter 1. Future interest earnings are based on an annual interest earnings rate of 1% applied to the projected mid-year balance of cash reserves. All capital projects that will be funded via donations or grants are identified as such under Capital Revenues by the designation "New CIAC". Tables 2-3 ad 2-4 list capital revenues from GFCs, interest earnings, CIAC funding, and transfers from operations as well as capital costs and any transfers from cash reserves to meet operating shortfalls as occurs in the sewer utility.

TABLE 2-1
Water Budget Forecast with Existing Rates

Accounts	Baseline Budget	2013	2014	2015	2016	2017	2018
OPERATING REVENUES							
Latecomers 15% Admin Fee	0	0	0	0	0	0	0
Public Safety PW & PD	0	0	0	0	0	0	0
Environmental Preserv Svcs	0	0	0	0	0	0	0
Water Meter Replacement Work	0	0	0	0	0	0	0
Water Sales Late Fees	16,900	16,900	16,900	16,900	16,900	16,900	16,900
Water Sales Flat Rates (WS,OO)	22,900	22,900	22,900	22,900	22,900	22,900	22,900
Water Sales Metered Resident	978,300	988,100	998,000	1,007,900	1,018,000	1,028,200	1,038,500
Water Sales Metered Commercial	606,800	612,900	619,000	625,200	631,400	637,800	644,100
Water Sales Public/Fed/City	50,200	50,200	50,200	50,200	50,200	50,200	50,200
InterFund Proj Svcs Pitship	0	0	0	0	0	0	0
Insurance Recoveries	0	0	0	0	0	0	0
Interfund Interest Received	0	0	0	0	0	0	0
Other Misc Revenue	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Meter Hookup/Other Permit Fees	25,800	25,800	25,800	25,800	25,800	25,800	25,800
TOTAL REVENUES	**1,701,900**	**1,717,800**	**1,733,800**	**1,749,900**	**1,766,200**	**1,782,800**	**1,799,400**
OPERATING EXPENDITURES							
GENERAL GOV'T SERVICES							
PW Salaries & Wages	17,000	17,000	17,500	18,000	18,600	19,100	19,700
PW L&I Insurance	700	700	700	800	800	900	900
PW FICA/Medicare	1,300	1,300	1,400	1,500	1,600	1,700	1,800
PW Retirement PERS	1,400	1,400	1,400	1,500	1,500	1,600	1,600
PW Insurance Med/Dent/Vision	4,200	4,200	4,500	4,700	5,000	5,400	5,700
PW Supplies - Shop & Field	0	0	0	0	0	0	0
Water Admin Supplies	1,200	1,200	1,200	1,300	1,300	1,300	1,400
Sm Tools & Minor Equip	0	0	0	0	0	0	0
Water Admin Prof Services	37,000	37,000	38,000	39,000	40,100	41,200	42,300
Water Admin Communication	9,000	9,000	9,200	9,500	9,700	10,000	10,300
Water Admin Advertising	0	0	0	0	0	0	0
Water Admin Utility Services	0	0	0	0	0	0	0
Water Admin Repair Maint	8,900	8,900	9,100	9,400	9,600	9,900	10,200
Water Admin Misc Services Fees	3,000	3,000	3,100	3,200	3,200	3,300	3,400
Water Admin Intergov Prof Serv	10,300	10,300	10,300	10,300	10,300	10,300	10,300
Water Admin Excise Tax/Assess	0	0	0	0	0	0	0
Water Admin InterFund B&O	133,800	135,300	136,600	137,800	139,200	140,500	141,800
Water Admin Interfund Pro Serv	418,000	418,000	429,300	440,900	452,800	465,000	477,600
Water Admin InterDept Serv Chg	0	0	0	0	0	0	0
Office & Operating Supplies	0	0	0	0	0	0	0
Water Professional Services	0	0	0	0	0	0	0
Water Trans Salaries & Wages	160,700	160,700	165,500	170,500	175,600	180,900	186,300
Water Trans Overtime Wages	21,200	21,200	21,800	22,500	23,200	23,900	24,600
Water Trans Call Wages	13,700	13,700	14,100	14,500	15,000	15,400	15,900
Water Trans L&I Insurance	10,500	10,500	11,000	11,600	12,200	12,800	13,400
Water Trans FICA/Medicare	14,000	14,000	14,900	15,800	16,800	17,900	19,000
Water Trans Retirement PERS	14,800	14,800	15,200	15,700	16,200	16,700	17,200
Water Trans Med/Dent/Vision	41,500	41,500	44,100	46,900	49,800	53,000	56,300
Water Trans Supplies/Chemicals	15,000	15,000	15,400	15,800	16,200	16,700	17,100
Water Trans Fuel Consumed	0	0	0	0	0	0	0
Water Trans Sm Tools & Equip	65,000	65,000	66,800	68,600	70,400	72,300	74,300
Water Trans Prof Services	106,400	106,400	109,300	112,200	115,300	118,400	121,600
Water Trans Travel & Meals	3,500	3,500	3,600	3,700	3,800	3,900	4,000
Water Wells Utility Services	56,000	56,600	60,000	63,600	67,500	71,500	75,900
Water Trans Repair Maintenance	55,000	55,000	56,500	58,000	59,600	61,200	62,800
Water Trans Misc Services/Fees	3,500	3,500	3,600	3,700	3,800	3,900	4,000
Water Trans Excise Tax/Assess	84,100	88,900	89,900	90,900	91,900	92,900	94,000
Sewer Trans Misc Services/Fees	0	0	0	0	0	0	0
Sewer Trans Fuel Consumed	0	0	0	0	0	0	0
Sewer Trans Tools Minor Equip	0	0	0	0	0	0	0
WRF Salaries & Wages	11,300	11,300	11,600	12,000	12,300	12,700	13,100
WRF Overtime Wages	0	0	0	0	0	0	0
WRF Call Wages	0	0	0	0	0	0	0
WRF Comp Wages	0	0	0	0	0	0	0
WRF L&I Insurance	700	700	700	800	800	900	900
WRF FICA/Medicare	900	900	900	1,000	1,000	1,000	1,000
WRF Retirement PERS	900	900	900	1,000	1,000	1,000	1,000
WRF Med/Dent/Vision	3,500	3,500	3,700	4,000	4,200	4,500	4,800
Utilities Salaries & Wages	33,900	33,900	34,900	36,000	37,000	38,200	39,300
Utilities Overtime	0	0	0	0	0	0	0
Utilities ON Call	0	0	0	0	0	0	0
Utilities L& I Insurance	1,500	1,500	1,600	1,700	1,700	1,800	1,900
Utilities FICA Medicare	2,600	2,600	2,700	2,800	2,800	2,900	3,000
Utilities Retirement PERS	2,700	2,700	2,800	2,900	3,000	3,000	3,100
Utilities Insurance Med/Dent/V	12,200	12,200	13,000	13,800	14,700	15,600	16,600
Sormwater Prof Services	0	0	0	0	0	0	0
SUBTOTAL GENERAL GOV'T SERVICES	**1,380,900**	**1,387,800**	**1,426,800**	**1,467,900**	**1,509,500**	**1,553,200**	**1,598,100**
OTHER EXPENDITURES							
Water Capital M & E Expenditur	0	0	0	0	0	0	0
Cap Outlay Machinery & Equip	0	0	0	0	0	0	0
SUBTOTAL OTHER EXPENDITURES	**0**	**0**	**0**	**0**	**0**	**0**	**0**
OTHER FINANCING USES							
Trsfr to StmWtr Ops	55,000	55,000	55,000	55,000	55,000	55,000	55,000
Transfer to Streets (CAP)	24,000	24,000	24,000	24,000	24,000	24,000	24,000
SUBTOTAL OTHER FINANCING USES	**79,000**	**79,000**	**79,000**	**79,000**	**79,000**	**79,000**	**79,000**
TOTAL O&M EXPENSES	**1,459,900**	**1,466,800**	**1,505,800**	**1,546,900**	**1,588,500**	**1,632,200**	**1,677,100**
DEBT PAYMENTS							
City Hall Rent		0	65,000	65,000	65,000	65,000	65,000
TOTAL DEBT PAYMENTS		**0**	**65,000**	**65,000**	**65,000**	**65,000**	**65,000**

TABLE 2-2
Sewer Budget Forecast with Existing Rates

Accounts	Baseline Budget	2013	2014	2015	2016	2017	2018
OPERATING REVENUES							
Sale of Merchandise	3,000	3,000	3,000	3,000	3,000	3,000	3,000
Public Safety PW & PD	0	0	0	0	0	0	0
Sewer Inspection Fees	3,500	3,500	3,500	3,500	3,500	3,500	3,500
Environmental Preserv Svcs	0	0	0	0	0	0	0
Sewer Sales Flat Residential	2,457,800	2,482,400	2,507,200	2,532,300	2,557,600	2,583,200	2,609,000
Sewer Sales Late Fees	3,400	3,400	3,400	3,400	3,400	3,400	3,400
Sewer Sales Metered Commercial	808,900	817,000	825,200	833,400	841,700	850,200	858,700
Sewer Sales Pub/Fed/City	58,600	58,600	58,600	58,600	58,600	58,600	58,600
Sewer Sales Other (SunLand)	29,800	29,800	29,800	29,800	29,800	29,800	29,800
Sewer Sales Reuse	1,600	1,600	1,600	1,600	1,600	1,600	1,600
Other NonRevenues	0	0	0	0	0	0	0
TOTAL REVENUES	**3,366,600**	**3,399,300**	**3,432,300**	**3,465,600**	**3,499,200**	**3,533,300**	**3,567,600**
OPERATING EXPENDITURES							
UTILITIES & ENVIRONMENT							
PW Salaries & Wages	17,000	17,000	17,500	18,000	18,600	19,100	19,700
PW L&I Insurance	700	700	700	800	800	900	900
PW FICA/Medicare	1,300	1,300	1,300	1,400	1,400	1,500	1,500
PW Retirement PERS	1,400	1,400	1,400	1,500	1,500	1,600	1,600
PW Insurance Med/Dent/Vision	4,200	4,200	4,500	4,700	5,000	5,400	5,700
Sewer Billing Supplies	1,500	1,500	1,500	1,600	1,600	1,700	1,700
Sewer Admin Prof Services	40,000	40,000	41,100	42,200	43,300	44,500	45,700
Sewer Admin Communication	9,000	9,000	9,200	9,500	9,700	10,000	10,300
Sewer Admin Repair Maintenance	6,500	6,500	6,700	6,900	7,000	7,200	7,400
Sewer Admin Misc Serv/Fees	0	0	0	0	0	0	0
Sewer Admin Intergov Prof Serv	13,100	13,100	13,100	13,100	13,100	13,100	13,100
Sewer Admin Intergov & Excise	0	0	0	0	0	0	0
Sewer Admin InterFUND B&O	268,800	271,300	273,900	276,600	279,300	282,000	284,800
Sewer Admin Interfund Serv Chg	966,700	966,700	992,800	1,019,600	1,047,100	1,075,400	1,104,400
Sewer Trans Salaries & Wages	129,100	129,100	133,000	137,000	141,100	145,300	149,700
Sewer Trans Overtime Wages	4,200	4,200	4,300	4,500	4,600	4,700	4,900
Sewer Trans Call Wages	0	0	0	0	0	0	0
Sewer Trans L&I Insurance	6,800	6,800	7,100	7,500	7,900	8,300	8,700
Sewer Trans FICA/Medicare	10,200	10,200	10,500	10,800	11,100	11,500	11,800
Sewer Trans Retirement PERS	10,800	10,800	11,100	11,500	11,800	12,200	12,500
Sewer Trans Med/Dent/Vision	34,600	34,600	36,800	39,100	41,600	44,200	47,000
Sewer Trans Supplies	10,000	10,000	10,300	10,500	10,800	11,100	11,400
Sewer Trans Inv For Sale (BFP)	4,000	4,000	4,100	4,200	4,300	4,400	4,600
Sewer Trans Tools Minor Equip	22,000	22,000	22,600	23,200	23,800	24,500	25,100
Sewer Trans Prof Services	13,000	13,000	13,400	13,700	14,100	14,500	14,900
Sewer Trans Travel & Meals	1,500	1,500	1,500	1,600	1,600	1,700	1,700
Sewer Pump Station Utilities	14,100	14,200	15,100	16,000	17,000	18,000	19,100
Sewer Trans Repair Maintenance	56,000	56,000	57,500	59,100	60,700	62,300	64,000
Sewer Trans Misc Services/Fees	2,000	2,000	2,100	2,100	2,200	2,200	2,300
Sewer Trans Intergov & Excise	19,400	19,800	20,000	20,200	20,400	20,600	20,800
WRF Salaries & Wages	302,800	302,800	311,900	321,200	330,900	340,800	351,000
WRF Overtime Wages	19,700	19,700	20,300	20,900	21,500	22,200	22,800
WRF Call Wages	14,200	14,200	14,600	15,100	15,500	16,000	16,500
WRF L&I Insurance	20,100	20,100	21,100	22,200	23,300	24,400	25,700
WRF FICA/Medicare	24,700	24,700	25,400	26,200	27,000	27,800	28,600
WRF Retirement PERS	22,400	22,400	23,100	23,800	24,500	25,200	26,000
WRF Med/Dent/Vision	65,800	65,800	69,900	74,400	79,000	84,000	89,300
WRF Other Benefits	26,600	26,600	27,300	28,100	28,800	29,600	30,400
WRF Supplies/Chemicals	146,700	146,700	150,700	154,700	158,900	163,200	167,600
WRF Diesl Fuel	62,000	62,000	63,700	65,400	67,200	69,000	70,800
WRF Sm Tools & Minor Equip	15,000	15,000	15,400	15,800	16,200	16,700	17,100
WRF Professional Services	50,000	50,000	51,400	52,700	54,200	55,600	57,100
WRF Travel & Meals	4,500	4,500	4,600	4,700	4,900	5,000	5,100
WRF Utility Services	107,000	107,000	112,400	118,000	123,900	130,100	136,600
WRF Repair & Maintenance	50,000	50,000	51,400	52,700	54,200	55,600	57,100
WRF Misc Services & Fees	6,200	6,200	6,400	6,500	6,700	6,900	7,100
WRF Trans Intergov & Excise	51,400	49,100	49,700	50,300	50,900	51,600	52,200
Reuse Professional Services	119,500	119,500	122,700	126,000	129,400	132,900	136,500
Utilities Salaries & Wages	33,900	33,900	34,900	36,000	37,000	38,200	39,300
Utilities L& I Insurance	1,500	1,500	1,600	1,700	1,700	1,800	1,900
Utilities FICA Medicare	2,600	2,600	2,700	2,800	2,800	2,900	3,000
Utilities Retirement PERS	2,700	2,700	2,800	2,900	3,000	3,000	3,100
Utilities Insurance Med/Dent/V	12,200	12,200	13,000	13,800	14,700	15,600	16,600
SUBTOTAL UTILITIES & ENVIRONMENT	**2,829,400**	**2,830,100**	**2,910,100**	**2,992,800**	**3,077,600**	**3,166,000**	**3,256,700**
OTHER EXPENDITURES							
Sewer Capital M&E Expenditures	65,000	65,000	66,800	68,600	70,400	72,300	74,300
Cap Outlay Machinery & Equip	0	0	0	0	0	0	0
SUBTOTAL OTHER EXPENDITURES	**65,000**	**65,000**	**66,800**	**68,600**	**70,400**	**72,300**	**74,300**
OTHER FINANCING USES							
Transfer Out		0	0	0	0	0	0
Trnfr to StmWtr Ops	55,000	55,000	55,000	55,000	55,000	55,000	55,000
Trnfr to 140 Parks (CAP)	32,100	32,100	32,100	32,100	32,100	32,100	32,100
Trnfr to 101 Street (CAP)	24,000	24,000	24,000	24,000	24,000	24,000	24,000
SUBTOTAL OTHER FINANCING USES	**111,100**	**111,100**	**111,100**	**111,100**	**111,100**	**111,100**	**111,100**
TOTAL O&M EXPENSES	**3,005,500**	**3,006,200**	**3,088,000**	**3,172,500**	**3,259,100**	**3,349,400**	**3,442,100**
DEBT PAYMENTS							
SRF Loan		273,000	273,000	273,000	273,000	273,000	136,500
DOE Loan		356,900	356,900	356,900	356,900	356,900	356,900
City Hall Rent		0	110,000	110,000	110,000	110,000	110,000
TOTAL DEBT PAYMENTS		629,900	739,900	739,900	739,900	739,900	603,400

TABLE 2-3
Water Capital Revenues and Expenses

CAPITAL REVENUES						
Transfer from Operations	251,000	118,000	93,000	67,700	40,600	12,300
Connection Charges	292,500	305,000	317,500	330,000	342,500	355,000
New CIAC - D-1 Hammond Str WM	873,000	0	0	0	0	0
New CIAC - D-4 Reservoir Rd & 7th Ave WM	0	0	0	68,900	518,800	0
New CIAC - D-6 7th Ave WM	0	0	0	0	0	0
New CIAC - D-8 Washington Str WM	0	0	0	0	0	0
New CIAC - D-9 West Sequim Bay WM	0	0	0	0	0	0
New CIAC - D-10 Washington HarborLoop WM	0	0	0	0	0	0
New CIAC - D-16 Marlo Dr W from existing main to River Rd	0	0	0	0	0	0
New CIAC - D-17 W Sewuim Bay Rd from Battelle to connect with Marina Wa	0	0	0	0	0	0
New CIAC - D-21 S Lee Chatsfield to Espeth Way	0	0	0	0	0	0
New CIAC - D-13 Bron Rd from E Fir Str to E Washington Str	0	0	0	68,500	514,800	0
New CIAC - D-28 South 7th Ave from Silberhorn to McCurdy	0	0	0	0	0	0
New CIAC - BS-1 500 gpm BS and PRVs	0	0	0	0	0	0
New CIAC - D-22 Washington Harbour Rd to Washington Harbor Loop	0	0	0	0	0	0
Interest Earnings from Cash	43,300	24,000	2,400	0	0	0
CAPITAL REVENUES TOTAL	**1,459,800**	**447,000**	**412,900**	**535,100**	**1,416,700**	**367,300**
CAPITAL EXPENSES						
S-7 Investigate New Water Rights	300,000	0	0	0	0	0
D-23 Pipe Oversizing	150,000	153,800	157,600	161,500	165,600	169,700
Complete Meter Replacement	50,000	0	0	0	0	0
Meters Sherwood Complex	100,000	0	0	0	0	0
New Water Rights	0	102,500	105,100	107,700	110,400	113,100
D-2 Brown Rd WM	0	0	0	0	0	0
D-3 5th Ave WM	0	0	0	0	0	0
D-5 Norman Str & Eunice Str	0	0	0	0	0	0
D-7 Happy Valley Rd	0	0	0	0	0	0
D-11 Fir Str from N 5th Ave to N Sequim Ave	200,000	51,300	52,500	435,100	228,500	0
D-12 Fir Str from N Sequim Ave to N Brown Rd	0	0	0	0	200,900	544,400
D-14 S Sunnyside Ave from Maple Str to E Prairie Str	0	110,700	0	0	0	0
D-15 E Etta Str from Sequim Ave to S Sunnyside Ave	100,000	128,100	0	0	0	0
D-18 Service of Emerald Highlands	0	23,800	179,400	0	0	0
D-19 Pressur Relief Valves	0	0	94,600	0	0	0
D-20 Crfatsman Court PRV Station	0	0	52,500	0	0	0
D-23 Asbestos Cement/Galv Iron WM Repl.	200,000	205,000	210,100	215,400	220,800	226,300
D-24 E Maple Str from S Sequim Ave to S Sunnyside Ave	0	19,400	146,100	0	0	0
D-25 Connection across S 3rd Ave at Sycamore Str	0	46,100	0	0	0	0
D-26 Isoltation Valves on Washington Str from 5th to Sequim Aves	0	15,700	134,500	0	0	0
D-27 West Prairie from S Sequim to S 2nd	50,000	172,200	0	0	0	0
BS-2 5th & McCurdy BS Improvements	0	34,900	262,700	0	0	0
BS-3 600 gpm BS at Simdars Rd	0	0	0	53,600	403,100	0
ST-1 - Happy Valley Reservoir	0	0	0	0	0	0
ST-2 Port Williams Reservoir Study	0	46,100	0	0	0	0
ST-3 420 Reservoir Mixing System	0	9,900	74,900	0	0	0
ST-4 study for Reuse of 500,000 Gallon Reservoir	0	25,600	0	0	0	0
S-1 Port Williams Well No.4	0	748,300	0	0	0	0
S-2 New Well	0	0	0	0	0	0
S-3 Investigate Additional Source of Supply	0	0	52,500	0	0	0
S-4 Study & Redevelopment of Wells No.2 & No.3	0	153,800	0	0	0	0
S-5 Replacement of Siberhorn Wells No. 2 & No.3	0	0	0	0	0	0
S-6 Infiltration Gallery Improvements	0	0	0	0	87,800	626,200
MI-2 SCADA Upgrade Report	0	51,300	0	0	0	0
MI-3 Fixed Base Automatic Meter Reading Syst	115,000	117,900	0	0	0	0
D-1 Hammond Str WM	873,000	0	0	0	0	0
D-4 Reservoir Rd & 7th Ave WM	0	0	0	68,900	518,800	0
D-6 7th Ave WM	0	0	0	0	0	0
D-8 Washington Str WM	0	0	0	0	0	0
D-9 West Sequim Bay WM	0	0	0	0	0	0
D-10 Washington HarborLoop WM	0	0	0	0	0	0
D-16 Marlo Dr W from existing main to River Rd	0	0	0	0	0	0
D-17 W Sewuim Bay Rd from Battelle to connect with Marina Water Syst	0	0	0	0	0	0
D-21 S Lee Chatsfield to Espeth Way	0	0	0	0	0	0
D-13 Bron Rd from E Fir Str to E Washington Str	0	0	0	68,500	514,800	0
D-28 South 7th Ave from Silberhorn to McCurdy	0	0	0	0	0	0
BS-1 500 gpm BS and PRVs	0	0	0	0	0	0
D-22 Washington Harbour Rd to Washington Harbor Loop	0	0	0	0	0	0
Regionalization	25,000	25,600	26,300	26,900	27,600	28,300
Economic Development	100,000	102,500	105,100	107,700	110,400	113,100
Allocations	200,000	205,000	210,100	215,400	220,800	226,300
Transfer to Operations	0	0	0	0	0	0
CAPITAL EXPENSES TOTAL	**2,463,000**	**2,549,500**	**1,864,000**	**1,460,700**	**2,809,500**	**2,047,400**

TABLE 2-4
Sewer Capital Revenues and Expenses

Accounts	Baseline Budget	2013	2014	2015	2016	2017	2018
CAPITAL REVENUES							
Transfer from Operations		0	0	0	0	0	0
Connection Charges		390,000	402,500	415,000	427,500	440,000	452,500
New CIAC - CS-5 East Sequim Sewer Improvement #1		0	0	0	0	0	0
New CIAC - CS-10 East Sequim Sewer Impr #2		0	0	0	0	0	0
New CIAC - CS-11 East Sequim Sewer Impr #3		0	0	0	0	0	0
New CIAC - CS-12 Hammond Str Sewer Extension		360,000	0	0	0	0	0
New CIAC - CS-13 Blake Str Sewer Impr		0	0	0	46,300	349,900	0
Interest Earnings from Cash		43,400	28,800	4,400	0	0	0
TOTAL CAPITAL REVENUES		**793,400**	**431,300**	**419,400**	**473,800**	**789,900**	**452,500**
CAPITAL EXPENSES							
W-1 Aux Generator Loadbanks		0	59,500	0	0	0	0
W-2 WRF Headworks Modifications #1		0	276,800	0	0	0	0
W-3 Equalization Basin Aeration Systm Improvements		0	55,400	0	0	0	0
W-4 Grit Removal Systm Replacement		0	287,000	0	0	0	0
W-5 Aerobic Digester Aeration System Improvements		300,000	302,400	0	0	0	0
W-6 Purchase New Land near WRF		0	30,200	173,900	0	0	0
W-7 Class A Biosolids Handling & Distribution Center		0	0	0	80,800	86,100	0
W-8 Aerobics Digester apacity Upgrades		0	0	0	227,200	0	0
W-10 WRF Headworks Modifications #2		0	0	0	0	0	0
RW-1 WRF Recirculation Booster Pump		0	25,600	0	0	0	0
CS-1 Cedar Str Sewer Improvements		0	145,600	1,111,600	0	0	0
CS-2 Etta Str Sewer Improvements		0	159,900	0	0	0	0
CS-23 DOE Run Lift Station		0	71,800	535,800	0	0	0
CS-4 Outfall Pipeline Repair/Replc		0	0	0	0	0	0
CS-5 East Sequim Sewer Improvement #1		0	0	0	0	0	0
CS-6 Sequim Basy Lodge & State Park Pressure Main Impr		0	92,300	0	0	0	0
CS-7 WRF Influent Trunk Line Pipeline Repair/Repl		0	0	174,400	1,328,900	0	0
CS-8 Fir Str Sewer Impr		0	63,600	65,100	694,600	365,400	0
CS-9 Sunnyside Str Sewer Impr		0	83,000	624,100	0	0	0
CS-10 East Sequim Sewer Impr #2		0	0	0	0	0	0
CS-11 East Sequim Sewer Impr #3		0	0	0	0	0	0
CS-12 Hammond Str Sewer Extension		360,000	0	0	0	0	0
CS-13 Blake Str Sewer Impr		0	0	0	46,300	349,900	0
OM-1 Vactor Truck Replacement		450,000	0	0	0	0	0
OM-2 collection system Survey GIS Mapping		0	41,000	0	0	0	0
East Fir Sewer Replacement(match timing to Water D-12)		0	0	0	0	221,900	1,104,400
WRF Reclaimed Water Pumping Facility Improvements		0	0	0	0	0	0
RW-2 Rapid Infiltration Basin Alternative B: Slotted/Perforated Pipe		0	0	0	0	0	0
RW-3 High Pressure Zone Expansion		0	0	0	0	0	0
RW-4 Overall Network Expansion		0	0	0	0	0	0
Major Repair/Oversizing		200,000	205,000	210,100	215,400	220,800	226,300
Reclaimed Water Project		94,000	61,500	0	0	0	0
Regionalization		25,000	25,600	26,300	26,900	27,600	28,300
MI-1 Portable Generator Load Bank		25,000	0	0	0	0	0
MI-3 Fixed Base Automatic Meter Reading Syst		115,000	117,900	0	0	0	0
Economic Development		100,000	102,500	105,100	107,700	110,400	113,100
Allocations		200,000	205,000	210,100	215,400	220,800	226,300
Transfer to Operations		236,800	395,600	446,800	499,800	556,000	477,900
CAPITAL EXPENSES TOTAL		**2,105,800**	**2,807,200**	**3,683,300**	**3,443,000**	**2,158,900**	**2,176,300**

FORECASTED CASH FLOWS WITH EXISTING RATES

A multi-year forecast of cash flows for each utility can now be created based on the operational and capital data in Tables 2-1 through 2-4. Tables 2-5 and 2-6 present a summary of utility cash flows and projected cash reserves for the years 2013 through 2018. Note that both tables include a line item for transfers between the water and sewer funds of reclaimed water capital costs. These are temporary transfers that will cease in 2016.

TABLE 2-5
Water Cash Flows & Cash Reserves with Existing Rates

Accounts	2013	2014	2015	2016	2017	2018
OPERATIONAL SUMMARY						
(+) Total Operating Revenues	1,717,800	1,733,800	1,749,900	1,766,200	1,782,800	1,799,400
(-) Total Operation & Maintenance	1,466,800	1,505,800	1,546,900	1,588,500	1,632,200	1,677,100
(-) Total Debt	0	110,000	110,000	110,000	110,000	110,000
NET REVENUE	**251,000**	**118,000**	**93,000**	**67,700**	**40,600**	**12,300**
CAPITAL SUMMARY						
Start of Year Cash	**5,035,000**	**3,631,800**	**1,158,500**	**674,500**	**1,687,500**	**3,080,300**
(+) Connection Charges & Interest Inc.	335,800	329,000	319,900	330,000	342,500	355,000
(+) Transfer from Operations	251,000	118,000	93,000	67,700	40,600	12,300
(+) Total Loan Funds	0	0	0	0	0	0
(+) Total CIAC Funds	873,000	0	0	137,400	1,033,600	0
(-) Transfer to Sewer for Reclaimed Water Capital Costs	400,000	370,800	381,900	87,400	0	0
(-) Total Capital Expenses	2,463,000	2,549,500	1,864,000	1,460,700	2,809,500	2,047,400
(-) Transfer to Operations	0	0	0	0	0	0
NET CAPITAL REVENUE	1,403,200	2,473,300	1,833,000	1,013,000	1,392,800	1,680,100
End of Year Cash	**3,631,800**	**1,158,500**	**674,500**	**1,687,500**	**3,080,300**	**4,760,400**

As shown in Table 2-5, the water utility is operationally sound in that operating revenues exceed the combination of operating expenses and debt payments. However, as shown in the Capital Summary part of the table, capital costs surpass available resources by 2015 and therefore if the level of planned capital expenses are to be maintained the City will have to utilize debt funding to maintain adequate cash reserves.

TABLE 2-6
Sewer Cash Flows & Cash Reserves with Existing Rates

Accounts	Baseline Budget	2013	2014	2015	2016	2017	2018
OPERATIONAL SUMMARY							
(+) Total Operating Revenues		3,399,300	3,432,300	3,465,600	3,499,200	3,533,300	3,567,600
(-) Total Operation & Maintenance		3,006,200	3,088,000	3,172,500	3,259,100	3,349,400	3,442,100
(-) Total Debt		629,900	739,900	739,900	739,900	739,900	603,400
NET REVENUE		**236,800**	**395,600**	**446,800**	**499,800**	**556,000**	**477,900**
CAPITAL SUMMARY							
Start of Year Cash		**4,794,000**	**3,881,600**	**1,876,500**	**1,005,500**	**3,887,300**	**5,256,300**
(+) Connection Charges & Interest Inc.		433,400	431,300	419,400	427,500	440,000	452,500
(+) Transfer from Operations		0	0	0	0	0	0
(+) Transfer from Water for Reclaimed Water Capital Costs		400,000	370,800	381,900	87,400	0	0
(+) Total Loan Funds		0	0	0	0	0	0
(+) Total CIAC Funds		360,000	0	0	46,300	349,900	0
(-) Total Capital Expenses		1,869,000	2,411,600	3,236,500	2,943,200	1,602,900	1,698,400
(-) Transfer to Operations		236,800	395,600	446,800	499,800	556,000	477,900
NET CAPITAL REVENUE		912,400	2,005,100	2,882,000	2,881,800	1,369,000	1,723,800
End of Year Cash		**3,881,600**	**1,876,500**	**1,005,500**	**3,887,300**	**5,256,300**	**6,980,100**

As shown in Table 2-6 the sewer utility currently requires revenue from GFCs to pay for a share of annual debt costs as indicated by the negative net revenues. Table 2-6 also shows that the sewer utility has substantial capital expenses that will exceed available resources by the year 2015 and therefore additional debt will need to be issued to maintain the planned level of capital expenditures.

REVENUE REQUIREMENTS

Revenue requirements can now be ascertained based on the amount of additional revenues required to better balance future cash flows and maintain acceptable levels of cash reserves.

Staff analyzed various alternatives financial strategies and determined that a combination of annual 4% rate increases in both the water and sewer utilities from 2014 through 2018, the issuance of new debt, and phased increases of GFCs in both utilities results in satisfactory cash flows. Tables 2-7 and 2-8 summarize projected cash flows with 4% annual rate increases, new debt funds, GFC increases, and increased annual debt payments.

TABLE 2-7
Water Cash Flows & Cash Reserves with 4% Rate Increases & New Debt

% Rate Increase	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Accounts	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**
OPERATIONAL SUMMARY						
(+) Total Operating Revenues	1,717,800	1,801,400	1,889,200	1,981,400	2,078,200	2,179,900
(-) Total Operation & Maintenance	1,466,800	1,514,600	1,565,100	1,616,500	1,670,600	1,726,500
(-) Total Debt	0	110,000	255,100	351,100	408,300	496,300
NET REVENUE	**251,000**	**176,800**	**69,000**	**13,800**	**700**	**42,900**
CAPITAL SUMMARY						
Start of Year Cash	**5,035,000**	**3,631,800**	**3,290,500**	**2,826,600**	**2,598,600**	**2,441,200**
(+) Connection Charges & Interest Inc.	335,800	339,600	348,100	357,100	367,700	378,400
(+) Transfer from Operations	251,000	176,800	69,000	13,800	0	0
(+) Total Loan Funds	0	2,062,600	1,364,900	811,800	1,251,500	1,510,000
(+) Total CIAC Funds	873,000	0	0	137,400	1,033,600	0
(-) Transfer to Sewer for Reclaimed Water Capital Costs	400,000	370,800	381,900	87,400	0	0
(-) Total Capital Expenses	2,463,000	2,549,500	1,864,000	1,460,700	2,809,500	2,047,400
(-) Transfer to Operations	0	0	0	0	700	42,900
NET CAPITAL REVENUE	1,403,200	341,300	463,900	228,000	157,400	201,900
End of Year Cash	**3,631,800**	**3,290,500**	**2,826,600**	**2,598,600**	**2,441,200**	**2,239,300**

TABLE 2-8
Sewer Cash Flows & Cash Reserves with 4% Rate Increases & New Debt

% Rate Increase	0.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Accounts	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**
OPERATIONAL SUMMARY						
(+) Total Operating Revenues	3,399,300	3,567,900	3,745,000	3,930,900	4,126,500	4,331,500
(-) Total Operation & Maintenance	3,006,200	3,101,400	3,200,200	3,301,700	3,407,900	3,517,400
(-) Total Debt	629,900	770,700	916,100	1,122,000	1,303,000	1,215,700
NET REVENUE	**236,800**	**304,200**	**371,300**	**492,800**	**584,400**	**401,600**
CAPITAL SUMMARY						
Start of Year Cash	**4,794,000**	**4,183,100**	**4,244,600**	**4,398,200**	**4,139,900**	**3,480,500**
(+) Connection Charges & Interest Inc.	434,900	444,600	458,200	470,200	478,100	480,500
(+) Transfer from Operations	0	0	0	0	0	0
(+) Transfer from Water for Reclaimed Water Capital Costs	400,000	370,800	381,900	87,400	0	0
(+) Total Loan Funds	300,000	1,961,900	2,921,300	2,573,800	699,900	254,600
(+) Total CIAC Funds	360,000	0	0	46,300	349,900	0
(-) Total Capital Expenses	1,869,000	2,411,600	3,236,500	2,943,200	1,602,900	1,698,400
(-) Transfer to Operations	236,800	304,200	371,300	492,800	584,400	401,600
NET CAPITAL REVENUE	610,900	61,500	153,600	258,300	659,400	1,364,900
End of Year Cash	**4,183,100**	**4,244,600**	**4,398,200**	**4,139,900**	**3,480,500**	**2,115,600**

Table 2-9 lists the total additional revenue needed from monthly rates to generate the desired cash flows based on the difference in total operating revenues in Tables 2-7 and 2-8 compared with those in Table 2-5 and 2-6. The City will also need to issue new debt in order to fund planned capital improvements.

TABLE 2-9
Additional Revenue Required from Monthly Rates

	2013	2014	2015	2016	2017	2018
Increase in Water Operating Revenues	$ -	$ 67,600	$ 139,300	$ 215,200	$ 295,400	$ 380,500
Increase in Sewer Operating Revenues	$ -	$ 135,600	$ 279,400	$ 431,700	$ 593,200	$ 763,900

NEW DEBT

As shown in Table 2-7, the water utility will need to borrow approximately $7M over the next 6 years in order to partially fund capital costs and still maintain acceptable cash reserves. The cash flow projection includes about $13.2M in total capital costs of which $7M will be debt funded or put another way about 50% of planned capital costs over the next 6 years will need to be debt financed. In addition to new debt, a total of $4.7M in new funds from GFC revenues, transfers from operations, and from grants will also be used to fund capital costs while the remaining $1.5M will be from a reduction in beginning cash reserves. Note that actual cash reserves decrease by $2.8M however $1.3M is associated with the repayment to the sewer fund for reclaimed water capital costs.

As shown in Table 2-8, the sewer utility will need to borrow approximately $8.7M over the next 6 years in order to partially fund capital costs and still maintain acceptable cash

reserves. The cash flow projection includes about $13.8M in total capital costs plus transfers from reserves to meet net revenue losses in operations. Similar to the water utility, the sewer utility will also need to issue new debt equal to about 50% of all planned capital costs over the next 6 years. In addition to about $8.7M in new debt the $15M in planned capital costs will also be partially funded with $4.8M in new funds from GFC revenues, transfers from operations, reclamation transfers from water, and from grants. The remaining $2.6M of funds will be from a reduction in beginning cash reserves.

In projecting new debt costs, this analysis utilizes a 20 year amortization and 3.5% annual interest charges on all planned capital costs except for sewer project W-5. Sewer Project W-5 (Aerobic Digester Aeration System Improvements) is assumed to be funded by a PWTF loan at 0.5% annual interest and a term of 10 year. The forecast assumes that 100% and 75% of W-5 project costs will be funded in 2013 and 2014 with the remaining 25% of costs funded by cash in 2014. Projected annual total debt costs listed in the Operational Summaries of Tables 2-7 and 2-8 are based on these debt terms and assumptions.

Revenue Bond Funding

The City is pursuing bond funding for the planned City Hall building that will be partially funded by the water and sewer utilities. If the City pursues revenue bonds as a funding source for the water and sewer utilities' shares then the revenue of the combined funds will be required to meet debt coverage requirements. Debt coverage for revenue bonds typically applies to only senior lien debt on par with a revenue bond. The water utility has no current outstanding loans and the sewer utility has two existing loans but both are junior lien and therefore will likely not be enter into the debt coverage test. Based on these assumptions, Table 2-10 lists total revenues, expenses, the resulting net annual revenue available to meet coverage requirements, and the calculated debt coverage factor.

TABLE 2-10
Available Debt Coverage Factors

Debt Coverage Caash Flows	2013	2014	2015	2016	2017	2018
(+) Total Water Operating Revenue	$ 1,717,800	$ 1,801,400	$ 1,889,200	$ 1,981,400	$ 2,078,200	$ 2,179,900
(+) Total Sewer Operatinng Revenue	$ 3,399,300	$ 3,567,900	$ 3,745,000	$ 3,930,900	$ 4,126,500	$ 4,331,500
(-) Total Waer O&M	$(1,466,800)	$(1,514,600)	$(1,565,100)	$(1,616,500)	$(1,670,600)	$(1,726,500)
(-) Total Sewer O&M	$(3,006,200)	$(3,101,400)	$(3,200,200)	$(3,301,700)	$(3,407,900)	$(3,517,400)
Net System Revenue Available for Debt Coverage	$ 644,100	$ 753,300	$ 868,900	$ 994,100	$ 1,126,200	$ 1,267,500
Esstimated Water & Sewer Debt Payment	$ 220,000	$ 220,000	$ 220,000	$ 220,000	$ 220,000	$ 220,000
Est. Debt Coverage Factor	**2.93**	**3.42**	**3.95**	**4.52**	**5.12**	**5.76**

Note that the debt coverage factors listed in Table 2-10 refer to senior lien debts and do not include the impact of the sewer funds two existing junior lien debts.

RECOMMENDATION

It is problematic to accurately predict exactly when individual capital projects will occur and for how much and when the City will issue new debt. However, based on the analysis it appears that if growth occurs as projected and the City proceeds with planned capital projects that approximately 50% of every dollar thus spent will need to come from new debt. The cash flows projected herein adequately portray future cash flows as long as new debt is issued in relatively equal installments in 2 or 3 phases over the next 5 years. If new debt is issued at a quicker pace then the planned rate increases will need to be sped up commensurately in order to maintain the projected levels of cash reserves.

In order to fund both increasing operation costs and planned capital costs and new debt the City will need to generate additional revenues from rates in both the water and sewer utilities. Based on the analysis in Chapter 2, both the water and sewer utility can meet expected cash demands by implementing annual increases equal to 1.5% on top of actual price inflation as identified by the CPI (consumer price index) for the area.

The City should also monitor the long term fiscal viability of the system by ensuring that the utilities have appropriate levels of rate capitalization also known as depreciation funding. Rate capitalization is simply the amount of monthly rate revenue that is available for capital purposes such as funding debt service, capital costs, or building reserves. In Tables 2-7 and 2-8 the levels of capitalization are shown by adding total annual debt service to the net revenue in the operating summary. In Table 2-7, by the year 2018 the water utility will reach a level of about $450K in capitalization and in Table 2-8 the sewer utility will reach about $800K in the same year. If these amounts are commensurate with annual depreciation costs then it can be concluded that monthly rates are at appropriate levels to ensure that both utilities can fund the ongoing repair and replacement of existing facilities over the long term. However, it should be noted that most agencies view depreciation in terms of the original cost of facilities and since future capital costs will be higher due to inflation the correct form of depreciation to use as a benchmark for setting the correct level of rate capitalization is annual depreciation based on the replacement costs of facilities rather than original costs.