



RH2 ENGINEERING
Bothell

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February 18, 2021

Mr. Richard Rodriguez
Regional Planner
Washington State Department of Health
Northwest Drinking Water Operations
20425 72nd Avenue South, Building 2, Suite 310
Kent, WA 98032-2358

Sent via: Email

Subject: Roosevelt Water Association 2020 Limited Water System Plan Update

Water System ID No. 74150

Dear Mr. Rodriguez:

On behalf of Roosevelt Water Association (Association), RH2 Engineering, Inc., (RH2) is submitting a Limited Water System Plan (LWSP) Update, as required by the Washington State Department of Health (DOH) and Directive Memorandum DM B.03 for Appropriate Level of Planning (ALOP). The Association is requesting approval of this LWSP Update for 4 years, through the end of 2024.

Basis for Limited WSP Qualification

Growth and demand within the Association has been significantly less than anticipated in the Association's 2007 *Water System Plan* (WSP) and 2014 WSP Update. It was projected that the Association's average daily demand (ADD) would increase from 301 gallons per minute (gpm) in 2010 to 573 gpm in 2019. However, actual demand at the end of 2019 remained below 300 gpm, as shown in **Figure 1**.

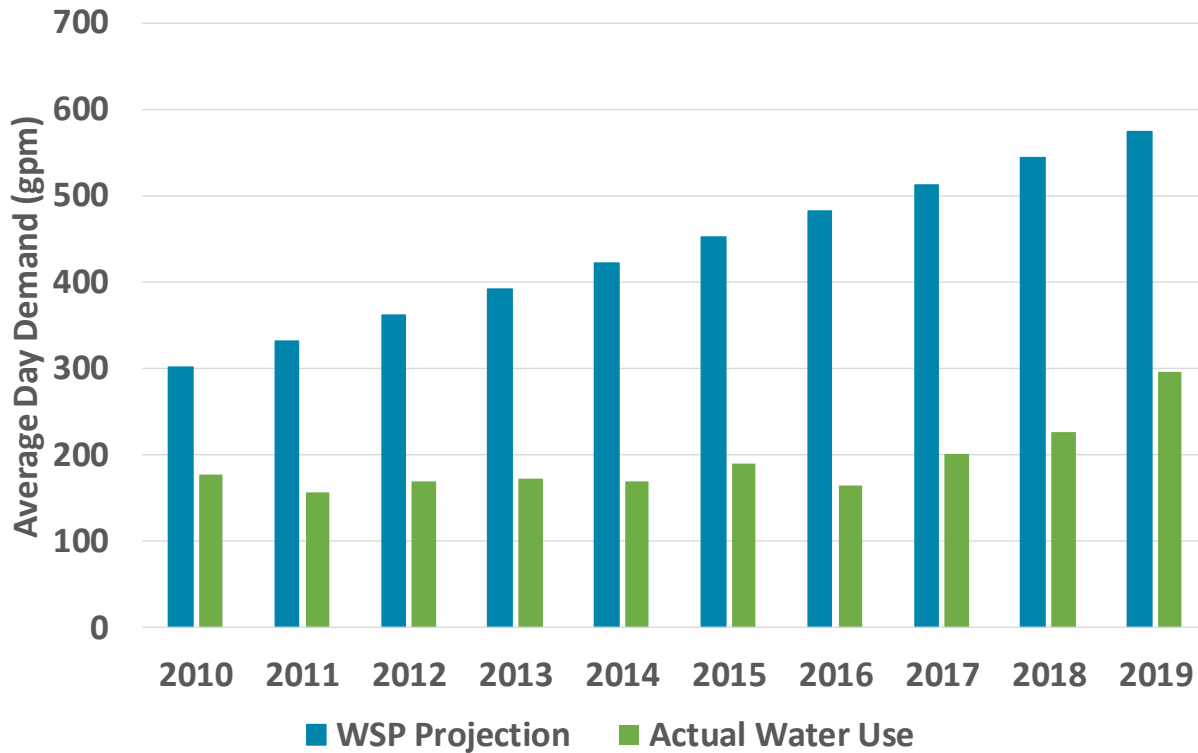
WASHINGTON LOCATIONS

Bellingham
Bothell (Corporate)
East Wenatchee
Issaquah
Richland
Tacoma

OREGON LOCATIONS

Medford
Portland

Figure 1
Projected vs. Actual Water Demand



Since the 2014 WSP Update, the Association has constructed the two primary growth-related improvements identified in its previous plans. As described in the 2007 WSP and 2014 WSP Update, the Association’s only significant deficiency was storage. To address that deficiency, the Association completed two key projects:

- The 650/710 Booster Pump Station increased usable storage in the existing 650 Reservoir from 40,000 gallons to 290,000 gallons by creating the new closed 710 Zone to serve the Association’s highest elevation customers. It was completed in the early summer of 2017.
- The 495 Reservoir increased usable storage from 290,000 gallons to 1.15 million gallons and was completed in the fall of 2019. The system now has the capacity to serve 1,941 connections. When the currently planned proposed developments are complete in 2021, the Association is expected to serve approximately 1,404 connections.

Planning Efforts Since the 2014 WSP Update

Since the 2007 WSP and 2014 WSP Update, the Association has completed planning efforts associated with the 2016 *650/710 Booster Pump Station and 495 Reservoir Improvements Project Report*, attached as Appendix C of the LWSP. Other planning efforts include the update of expected population growth per the Puget Sound Regional Council (PSRC) 2017 forecast, which project the Association will grow from 1,319 Single-Family Residential connections at the end of 2020 to 1,606 connections by the year 2040. Multiplying the projected connections by



the Association's rolling-5-year ADD per ERU of 270 gallons, the Association is projected to have adequate storage capacity through 2040. Supply is not a restricting element: the Association is served by the City of Everett (Everett) through Everett's water right, and Everett has verbally committed to the Association that they expect to be able to meet the Association's demand for the foreseeable future.

Per DM B.03, the attached LWSP includes the following data and information:

1. This cover letter, demonstrating the applicability of the limited, rather than full, Water System Plan update.
2. Engineering analysis, which includes an evaluation of how the current system compares to the system as described in the 2007 WSP and 2014 WSP Update and an explanation of why parts of the 2007 WSP are still valid. The attached LWSP reflects the incremental changes to the Association's system since the previous WSP. The following incremental changes are addressed:
 - a. Proposed development for the years 2020 through 2030;
 - b. Historic and projected equivalent residential units (ERUs) and demand from 2010 through 2040;
 - c. System deficiencies; and
 - d. Unchanged elements since the 2007 WSP.
3. Water Right Self-Assessment.
4. Updated budget and capital improvement program for the years 2020 through 2030.
5. Local government consistency.
6. Consumer informational meeting or notification.
7. State Environmental Policy Act (SEPA) compliance.
8. Notification of adjacent water systems and wholesale customers.

The Association requests, and RH2 recommends, that the 2020 Limited Water System Update be approved for a 4-year period, through the year 2024, as the analyses and recommendations contained in the 2007 WSP, 2014 WSP Update, and 2020 LWSP meet the Department of Health's water system planning requirements.

If you have any questions regarding this submittal, please contact me directly at (425) 951-5394.

Sincerely,

A handwritten signature in blue ink that reads 'Michele Campbell'.

Michele Campbell, PE

Project Manager

MRC/SE/sp/jas

Attachments: 2020 Limited Water System Plan

RH2 TECHNICAL MEMORANDUM

Client: Roosevelt Water Association

Project: Limited Water System Plan Update

Project File: RWA 20.0064.00.0001.0102 Project Manager: Michele Campbell, PE

Composed by: Shannon Emerick, PE

Reviewed by: Michele Campbell, PE, and Rick Ballard, PE

Subject: 2020 Limited WSP Update: Water System ID 74150

Date: February 18, 2021



Signed: 2/18/21



Signed: 2/18/21



Signed: 2/18/21

Reviewed as Engineer in
Responsible Charge

This Technical Memorandum was developed to meet the Washington State Department of Health (DOH) Directive Memorandum DM B.03 for Appropriate Level of Planning (ALOP, **Attachment 1**) and follows the numbering system of DM B.03.

1. Limited Water System Plan Applicability

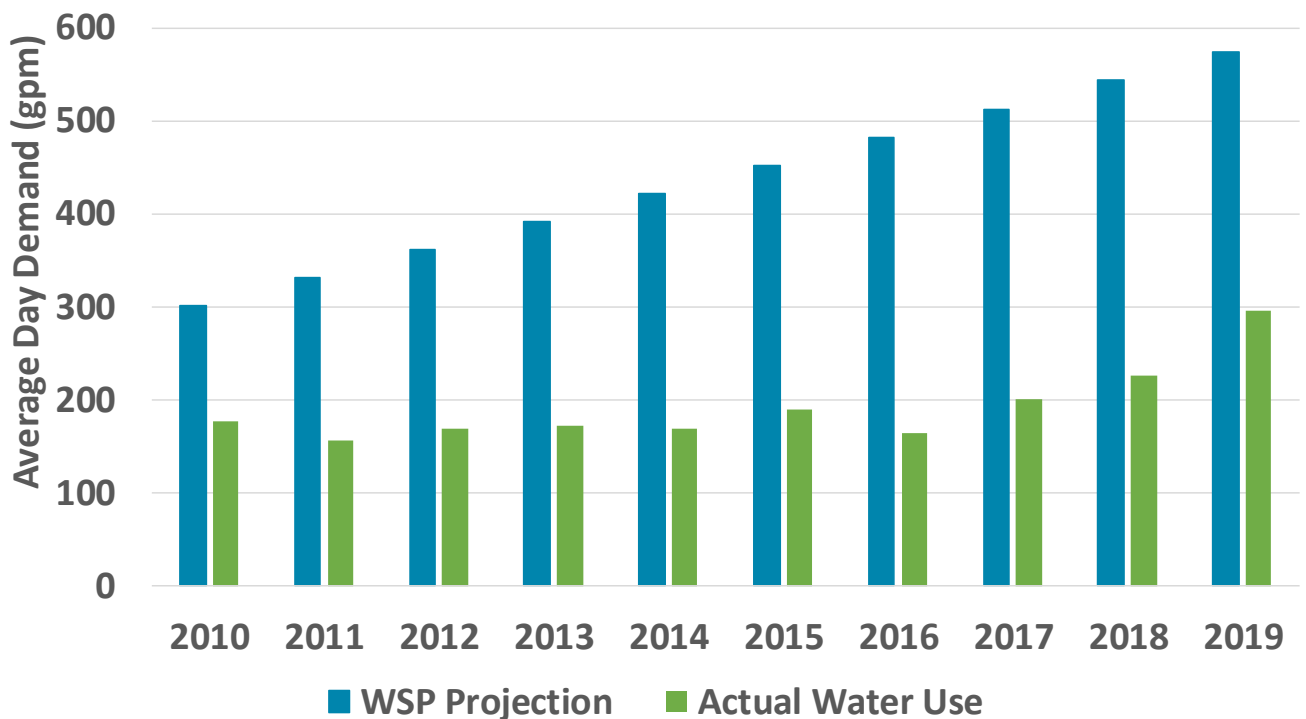
The first required element of DM B.03 is a cover summarizing the applicability of the Limited Water System Plan (LWSP). This letter has been provided with this technical memorandum. Applicability is also discussed in the **Engineering Analysis** section that follows.

2. Engineering Analysis

a. Evaluation of Current System in Comparison to System Described in 2007 WSP and 2014 WSP Update

Growth and demand within Roosevelt Water Association’s (Association) water system have been significantly less than anticipated in the Association’s 2007 *Water System Plan* (WSP) (**Appendix A**). Those projections remained unchanged in the Association’s 2014 WSP Update (**Appendix B**). It was projected that the Association’s average daily demand (ADD) would increase from 301 gallons per minute (gpm) in 2010 to 573 gpm in 2019. However, actual demand at the end of 2019 remained below 300 gpm (**Chart 1**). The capacity analyses for 2010, with a projected ADD of 301 gpm, may therefore be translated to the year 2019, which experienced an actual demand of 296 gpm. Further, the anticipated growth rate from 2020 to 2040 per Puget Sound Regional Council (PSRC) projections projects less growth than what was anticipated in 2007.

Chart 1
2007 WSP Projection v. Actual Water Use



As described in the 2007 WSP and 2014 WSP Update, the Association’s only noted deficiency was storage. To address that deficiency, the Association completed two key projects, which are described in detail in the *650/710 Booster Pump Station and 495 Reservoir Improvements Project Report* (RH2, 2016) (**Appendix C**):

- The 650/710 Booster Pump Station (BPS) increased usable storage in the existing 650 Reservoir from 40,000 gallons to 290,000 gallons by creating the new closed 710 Zone to serve the Association’s highest elevation customers. It was completed in the early summer of 2017.

- The 495 Reservoir increased usable storage from 290,000 gallons to 1.15 million gallons and was completed in the fall of 2019.

Those two improvements, conceptually planned in the 2007 WSP and 2014 WSP Update, are the only significant changes to the water system since the 2007 WSP. An Existing Water System Map (**Figure 1**) and an Existing Hydraulic Profile (**Figure 2**) are attached, which include the completed 650/710 Zone Booster Pump Station and 495 Zone Reservoir.

An updated Adjacent Water System Map is attached as **Figure 3**, and an updated Land Use Map is attached as **Figure 4**. Since 2007, only the zoning within the southern tip of the Association has changed. While there have been no changes to the Association's boundaries, there have been minor changes to the boundaries of adjacent water systems. With consideration of these minor changes, most elements of the 2007 WSP still remain valid, including the remainder of the Association's facilities, remaining capital improvements to complete, and the Association's policies, design criteria, standards, operations and maintenance procedures, and water quality monitoring procedures, as described later in this technical memorandum.

b. Recent and Proposed Development

Since the 2014 WSP Update, the following developments were completed or are currently in progress. For each of the four developer extensions, hydraulic modeling was completed to confirm adequate pressure and flow would be available within the system.

- Trombley Ridge (aka Trombley Heights, 6 connections, completed 2017)
- Trombley Ridge (aka Windsor Park, 14 connections, completed 2017)
- Snohomish Golf Estates (28 connections, completed 2018)
- Monroe Woodlands (210 connections, of which 30 were completed in 2019, 100 were completed in 2020, and 80 will be completed in 2021)

No specific new developments outside of Monroe Woodlands have been applied for or proposed for the years 2021 or later; however, the Association continues to plan for the development projected by regional forecasts as described as follows.

Compatibility

The Association is fully contained within unincorporated Snohomish County. To ensure that the LWSP is consistent with the land use policies that guide it and other related plans, the following planning documents were examined.

- Growth Management Act
- *Snohomish County Comprehensive Plan*
- *North Snohomish County Coordinated Water System Plan*

Growth Management Act

Urban Growth Areas

There is a small portion of the Association's southern tip that is not within the City of Monroe city limits but is within the City of Monroe's Urban Growth Area (UGA).

Consistency

The 2003 Municipal Water Law requires that water system plans be consistent with Revised Code of Washington (RCW) 36.70A.100 and with local plans and regulations. The Growth Management Act (GMA) also requires the implementation of the WSP be consistent with comprehensive plans (RCW 36.70A.120). The signed Consistency Statement Checklist included in **Appendix D** from the Snohomish County (County) Planning Department documents the determination that this LWSP is consistent with the County's plans and regulations.

Concurrency

Concurrency means that adequate public facilities and services be provided at the time growth occurs. It also requires that when public facilities and services cannot be maintained at an acceptable level of service, new development should be prohibited (RCW 36.70A.110).

Critical Areas

The GMA requires that critical areas be designated and protected. Critical areas include fish and wildlife habitat, flood zones, aquifer recharge areas, streams, creeks, rivers, lakes, wetlands, and other surface water, as well as geologic hazard areas such as steep slopes and liquefaction zones. The Association has adopted development regulations identifying and protecting critical areas as required. The State Environmental Policy Act (SEPA) Checklist in **Appendix E** addresses other environmental concerns.

Snohomish County Comprehensive Plan

The County's *Comprehensive Plan* guides development in rural, unincorporated Snohomish County and designates land use in the unincorporated UGA.

Land Use

Land use within the Association remains unchanged since the 2007 WSP, except for a small area near the Association's southern tip that was re-zoned to R-7,200, as shown in the updated Land Use Map (**Figure 4**). Part of that area was changed from R-9,600 to R-7,200 and part was changed from R-5 to R-7,200. The area re-zoned from R-5 to R-7,200 is the site of the Monroe Woodlands development, already included in the Association's equivalent residential units (ERUs) through 2021. The remaining undeveloped land inside the area that changed from R-5 to R-7,200 is Restricted Open Space owned by the Monroe Woodlands Homeowners Association, where additional new housing is not permitted. The area that changed from R-9,600 to R-7,200 includes lots where later subdivision and infill housing is possible.

Population

At the end of 2020, the Association's water system was comprised of 1,261 single-family residences (SFR) and 4 small non-residential connections that have the same approximate demand as a typical SFR (204.7 gallons per day (gpd) non-residential vs. 204.5 gpd residential when examined at the time of the 2016 *650/710 BPS and 495 Reservoir Improvements Project Report*). Based on an average household size of 2.82 residents per ERU (current) increasing to 2.89 residents per ERU in 2040, the estimated year 2040 population to be served by the Association is anticipated to be 4,647.

North Snohomish County Coordinated Water System Plan

The *North Snohomish County Coordinated Water System Plan* (CWSP), originally dated October 1991, and updated in December 2010, was developed under the direction of the County’s Water Utility Coordinating Committee (WUCC), the County, Tulalip Ethnic groups, and Snohomish County Public Utility District No. 1 (PUD). The members of the WUCC represent the collective efforts of all public water systems with more than ten service connections that provide service within the Critical Water Supply Service Area (CWSSA). The Snohomish County Council declared North Snohomish County a CWSSA on October 19, 1988.

The purpose of the CWSP is to assist the area’s water utilities in establishing an effective process for planning and developing public water systems and restricting the proliferation of small public water systems. The CWSP accomplishes this by establishing future service area boundaries, minimum design standards, service review procedures, appeals procedures, long-term regional water supply strategies, a water use efficiency program and goals, and the satellite system management program. As can be seen in the following sections of this LWSP, the Association’s 2007 WSP, and 2014 WSP update, the Association has established policies, design criteria, and goals that meet or exceed the requirements and goals of the CWSP.

c. Historic and Projected ERUs and Water Demands

Water demand since 2007 has been lower than projected in the 2007 WSP. **Chart 1** shows the difference between the annual demand projections in the 2007 WSP and the actual system demand for the years 2010 through 2019. The projected demand volumes are taken from Table 4-9 of the 2007 WSP. The actual system ADD in 2019 of 296 gpm remained below the ADD that had been projected in the 2007 WSP for the year 2010 of 300 gpm.

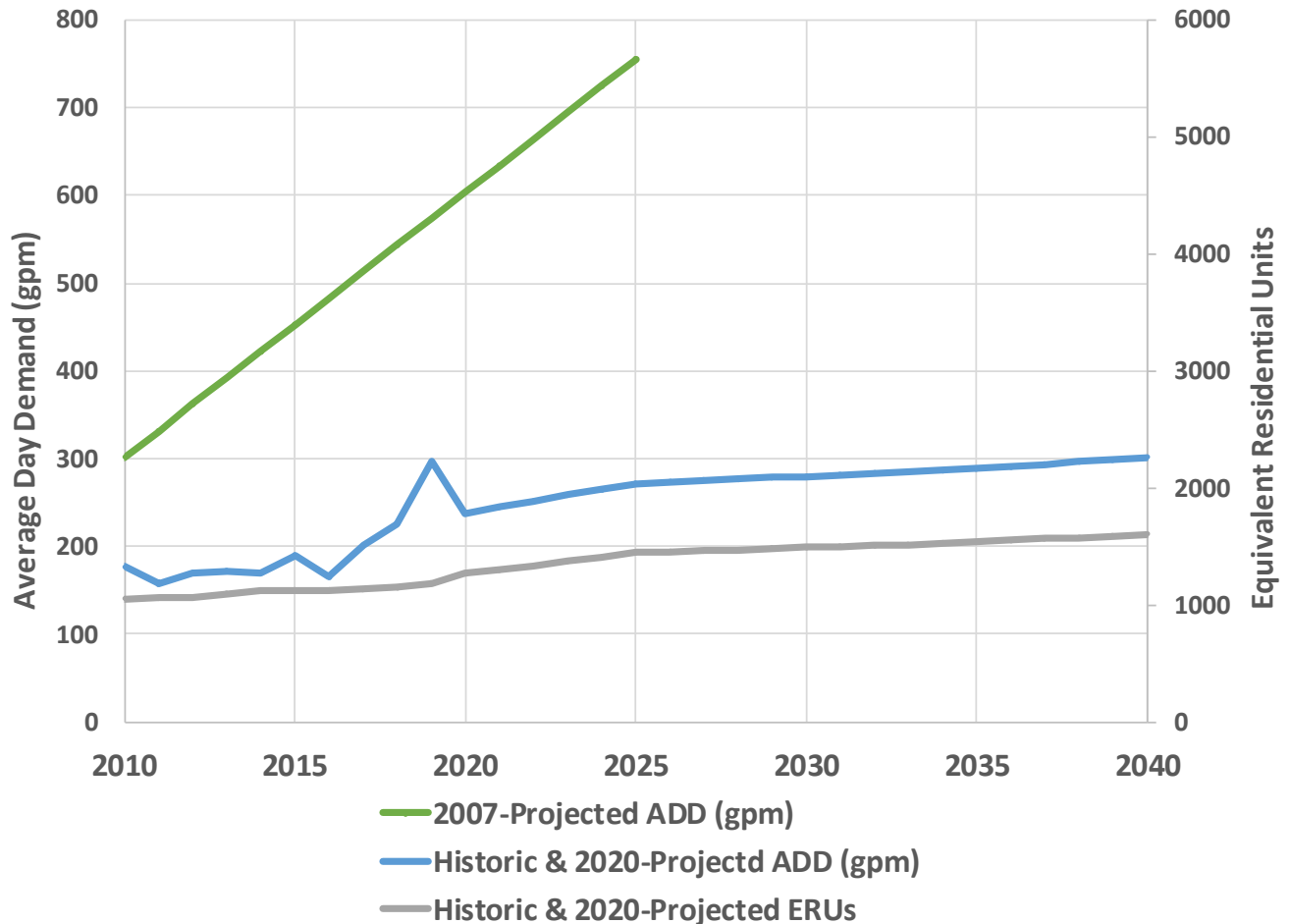
Table 1 presents the current number of ERUs served in 2020 and the projected ERUs and population within the Association boundaries for the years 2025 through 2040. Projections are based on the 2017 (most current available) PSRC population estimates for years 2020, 2025, 2030, and 2040. ADD was projected based on an ADD per ERU of 270 gallons, the Association’s rolling 5-year average ADD per ERU (in gallons per ERU per day).

Table 1
Projected ERUs, Population, and ADD

	ERUs	Pop	ADD (gpm)
2020	1,319	3,718	238
2025	1,448	4,091	272
2030	1,489	4,245	280
2035	1,535	4,403	288
2040	1,606	4,647	302

Chart 2 graphs the current number of ERUs served in 2020 and the projected ERUs and population within the Association boundaries for the years 2025 through 2040, and also shows the 2007 WSP projected demand.

Chart 2
Historic and Projected ERUs and Demand



2018 and 2019 were unusual years for the Association for non-billable water use due to construction-related water use and emergency events. In 2019, the total water purchased was 155,462,899 gallons, and the total water sold was 94,284,652 gallons. Approximately 32 million gallons of that non-billable portion can be accounted for by the following events:

- Repair and re-testing of the newly constructed 495 Zone Reservoir, which leaked.
- Flushing in the 167th/Roosevelt Ridge area in early March.
- A leak near 163rd in mid-April.
- System flushing in mid-March through late April.
- A main break near 163rd in June/July.
- A main break near 159th in early August.
- A main break in Lupine in mid-August.
- A main break near 171st and 116th in mid-September.
- Trombley Road flushing in mid-October.

d. System Deficiencies

The 495 Zone storage deficiency identified in the 2007 WSP has been fully resolved with the construction of the 495 Reservoir and the 650/710 BPS. Adequate storage and supply is now anticipated to serve PSRC-projected growth until approximately the year 2040. Previously identified capital improvements continue to be implemented as funds become available or other circumstances, such as leaks or breaks, occur.

3. Water Right Self-Assessment

The Association does not have its own individual water right; instead, it is served by the City of Everett (Everett) through Everett’s water rights. Everett’s water source is Spada Lake, located in the Sultan River Basin. Everett has verbally committed to the Association that they expect to be able to meet the Association’s demand for the foreseeable future. The Association does not have a written agreement in place with Everett for water supply.

4. Updated Budget and Capital Improvement Plan

The Association’s 2020 to 2024 Budget is attached as **Appendix F**.

The Association continues to make progress on the capital improvement plan (CIP) from its 2007 WSP and 2014 WSP Update shown in **Table 2**. All remaining CIP projects are water main projects now that the 495 Reservoir and 650/710 BPS are complete. The CIP identifies the current completion status of each project. Planning-level costs from previous WSPs have been increased for inflation using the Construction Consumer Price Index.

Table 2
Capital Improvement Plan

CIP No.	Description	Feet	Water Main Size	2014 Construction Cost	2014 Project Cost	Status	2020 Cost of Remaining Work
S-1	Tank No. 2	N/A	N/A	\$1,710,000	\$1,880,000	Complete	\$0
D-1	Pump Station No. 3	N/A	N/A	\$970,000	\$1,170,000	Complete	\$0
M-1	Roosevelt Rd: Trombley to Southern Tip	7,800	12	\$2,496,000	\$2,995,000	Complete	\$0
M-2	Roosevelt Rd: Trombley to 159th SE	4,000	12	\$1,280,000	\$1,536,000	Remaining	\$1,788,000
M-3	159th Ave SE: Roosevelt to Westwick	4,400	10 ¹	\$1,320,000	\$1,584,000	67% Complete	\$649,000
M-4	82nd St SE: Homestead Estates	2,000	8	\$560,000	\$672,000	Remaining	\$782,000
M-5	Trombley Rd: Roosevelt to 175th Ave SE	4,000	12	\$1,280,000	\$1,536,000	Complete	\$0
M-6	116th St SE & 158th Ave SE	3,600	8	\$1,008,000	\$1,210,000	Remaining	\$1,408,000
M-7	Westwick & SR2 to West End	6,400	8	\$1,792,000	\$2,150,000	Remaining	\$2,502,000
M-8	167th Ave SE: Trombley to Westwick	6,000	8	\$1,680,000	\$2,016,000	32% Complete	\$1,595,000
M-9	159th Ave SE: 82nd St. SE to 88th St SE	1,800	8	\$504,000	\$605,000	Remaining	\$704,000
M-10	Trombley Rd: Trombley Tap to intersection w/BPS No. 2 Suction	820	8	\$229,600	\$275,502	New Since 2014 WSP	\$321,000
M-11, Alt 1	520 PZ: Trombley & BPS No. 2 Suction to Private Drive Near Trombley and Badke	370	8	\$103,600	\$124,312	New Since 2014 WSP	\$145,000
M-11, Alt 2	650 PZ: Trombley Rd: 185th Dr to Private Drive Near Badke	980	8	\$274,400	\$329,258	New Since 2014 WSP	\$384,000
Total							\$10,278,000

¹ RWA has elected to use 12" main in lieu of 10"

5. Local Government Consistency

As previously discussed, a draft of the Association's updated Consistency Statement Checklist for the LWSP is attached as **Appendix D**. Snohomish County is currently in the process of reviewing and responding to that Consistency Checklist. The final, signed consistency statement will be forwarded to DOH upon receipt from the County.

6. Consumer Information Meeting or Notification

The Association will begin an internal adoption process for this Limited Water System Plan at an upcoming Board of Trustees meeting. Once approved by the Trustees, the request will be placed on the public agenda for the following meeting, where the required meeting of consumers and final approval and adoption will take place. Documentation of this meeting and adoption of the LWSP will be forwarded to DOH once available.

7. SEPA Compliance Checklist and DNS

The Association's SEPA Checklist and Determination of Non-Significance (DNS) are attached as **Appendix E**.

8. Notification of Adjacent Water Systems and Wholesale Customers

The Association is providing copies of this Limited Water System Plan to the following adjacent water systems.

- Snohomish County Public Utility District No. 1
- Three Lakes Water Association
- Meadow Lake Water Association
- City of Monroe

The Association has no wholesale customers at this time.

Attachments

1. **Attachment 1** – Memorandum DM B.03 for Appropriate Level of Planning
2. **Figure 1** – Existing Water System Map
3. **Figure 2** – Existing System Hydraulic Profile
4. **Figure 3** – Adjacent Water System Map
5. **Figure 4** – Land Use Map
6. **Appendix A** – 2007 Water System Plan
 - Construction Standards: Appendix D of 2007 WSP
 - Cross-Connection Control Plan: Appendix D of 2007 WSP
 - Water Quality Monitoring Plan: Appendix H, I, and L of 2007 WSP
 - Water Use Efficiency Plan: Chapter 4 of 2007 WSP
7. **Appendix B** – 2014 Water System Plan Update
8. **Appendix C** – 650/710 Booster Pump Station and 495 Reservoir Improvements Project Report
9. **Appendix D** – Consistency Statement Checklist
10. **Appendix E** – SEPA and Determination of Non-Significance
11. **Appendix F** – 2020 to 2024 Budget

Attachment 1
Memorandum DM B.03 for Appropriate Level of
Planning

Contents of Limited WSP Update (ALOP)

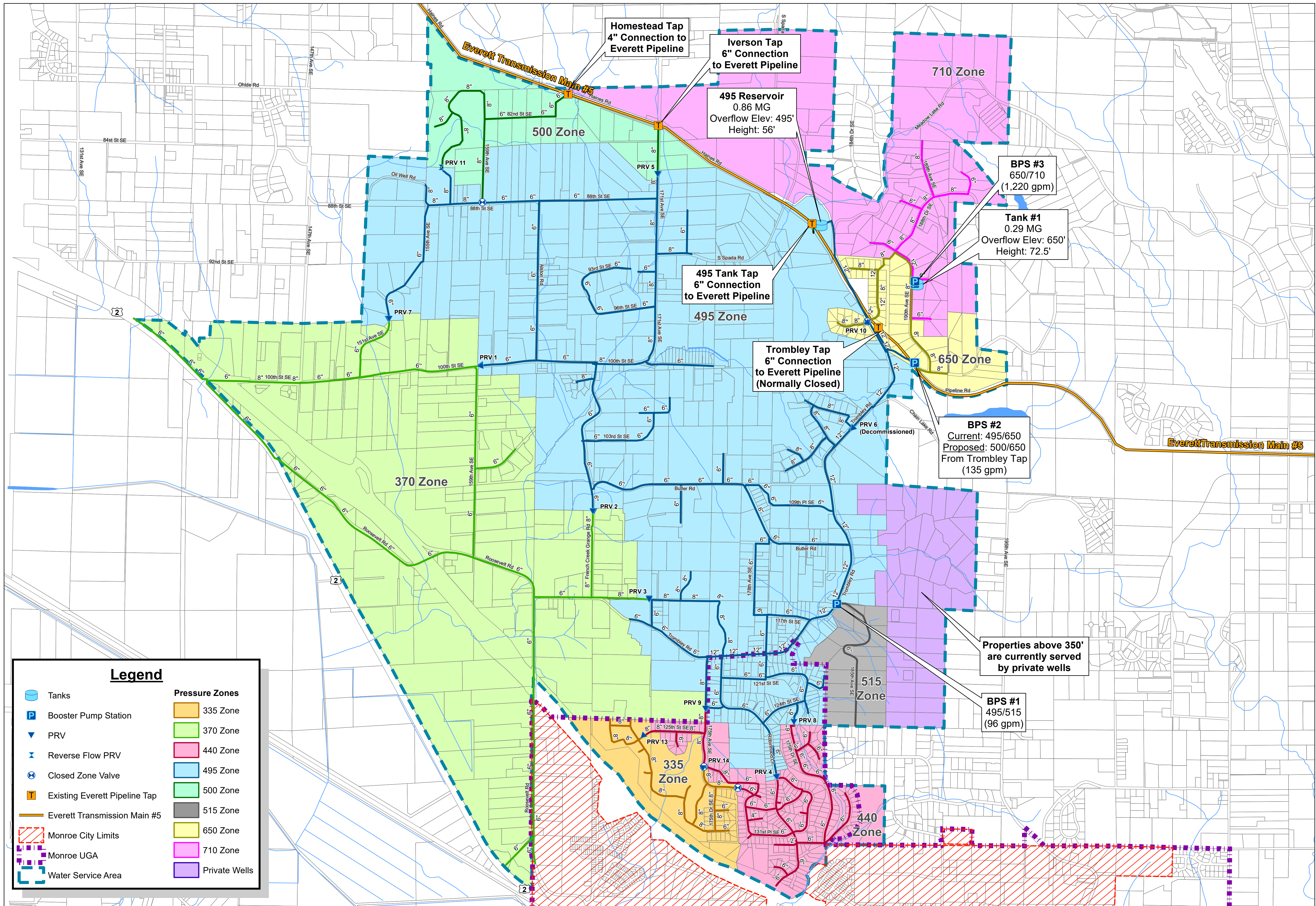
Per WAC 246-290-100 (9) ODW staff cannot extend the approval date of an approved water system plan (WSP). However, Directive Memorandum DM B.03, sets out the direction we are to take with regard to Appropriate Level of Planning (ALOP). Per the DM, “Staff should apply the incremental planning concept to guide the scope and level of detail of the planning document using either a comprehensive approach or a selective approach.”

A water system may request a limited update for their WSP when the existing approved plan still has useful life extending beyond the existing approval time frame. DOH requires at a minimum the following item in the submittal of WSP update in this circumstance:

1. Cover letter explaining the reason the previously approved plan still has validity, such as the growth projected didn't occur. The letter must:
 - a. Request approval of the water system plan update for a number of years of 10 or less.
 - b. Include a description of the water system's planning efforts.
2. An engineering analysis and evaluation of the how the current system compares to the reference WSP's design assumptions and how that those assumptions are still valid for the requested timeframe of the limited updated WSP. The analysis can be in the form of a letter or a more substantial document but must be signed, stamped and dated by a licensed professional engineer (WAC 246-290-040);
3. Updated Water Right Self-Assessment (WRSA) using the update WRSA form.
4. Updated budget and CIP for the years of the request.
5. Local government consistency (LGC) as required under WAC 246-290-108.
6. Consumer informational meeting and governing body or board approval (WAC 246-290-100 (8));
7. SEPA documentation, for systems serving 1,000 or more connections, in accordance with ODW Policy A.03 (WAC 246-03-030);
8. Notification of adjacent water systems and wholesale customers.

In accordance with the 2007 Health-Ecology Memorandum of Understanding (MOU) related to the coordination between planning, engineering, public health and safety process, and water resources or successor (RCW 90.033.386), the submitted WSP update will be sent to Ecology for review and comment.

Figures



Homestead Tap
4" Connection to
Everett Pipeline

Iverson Tap
6" Connection
to Everett Pipeline

495 Reservoir
0.86 MG
Overflow Elev: 495'
Height: 56'

710 Zone

BPS #3
650/710
(1,220 gpm)

Tank #1
0.29 MG
Overflow Elev: 650'
Height: 72.5'

495 Tank Tap
6" Connection
to Everett Pipeline

495 Zone

Trombley Tap
6" Connection
to Everett Pipeline
(Normally Closed)

650 Zone

BPS #2
Current: 495/650
Proposed: 500/650
From Trombley Tap
(135 gpm)

370 Zone

Properties above 350'
are currently served
by private wells

BPS #1
495/515
(96 gpm)

335 Zone

515 Zone

440 Zone

Legend

	Tanks		335 Zone
	Booster Pump Station		370 Zone
	PRV		440 Zone
	Reverse Flow PRV		495 Zone
	Closed Zone Valve		500 Zone
	Existing Everett Pipeline Tap		515 Zone
	Everett Transmission Main #5		650 Zone
	Monroe City Limits		710 Zone
	Monroe UGA		Private Wells
	Water Service Area		

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Vicinity Map



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Figure 1
Existing Water System Map
Roosevelt Water Association
Water System Plan

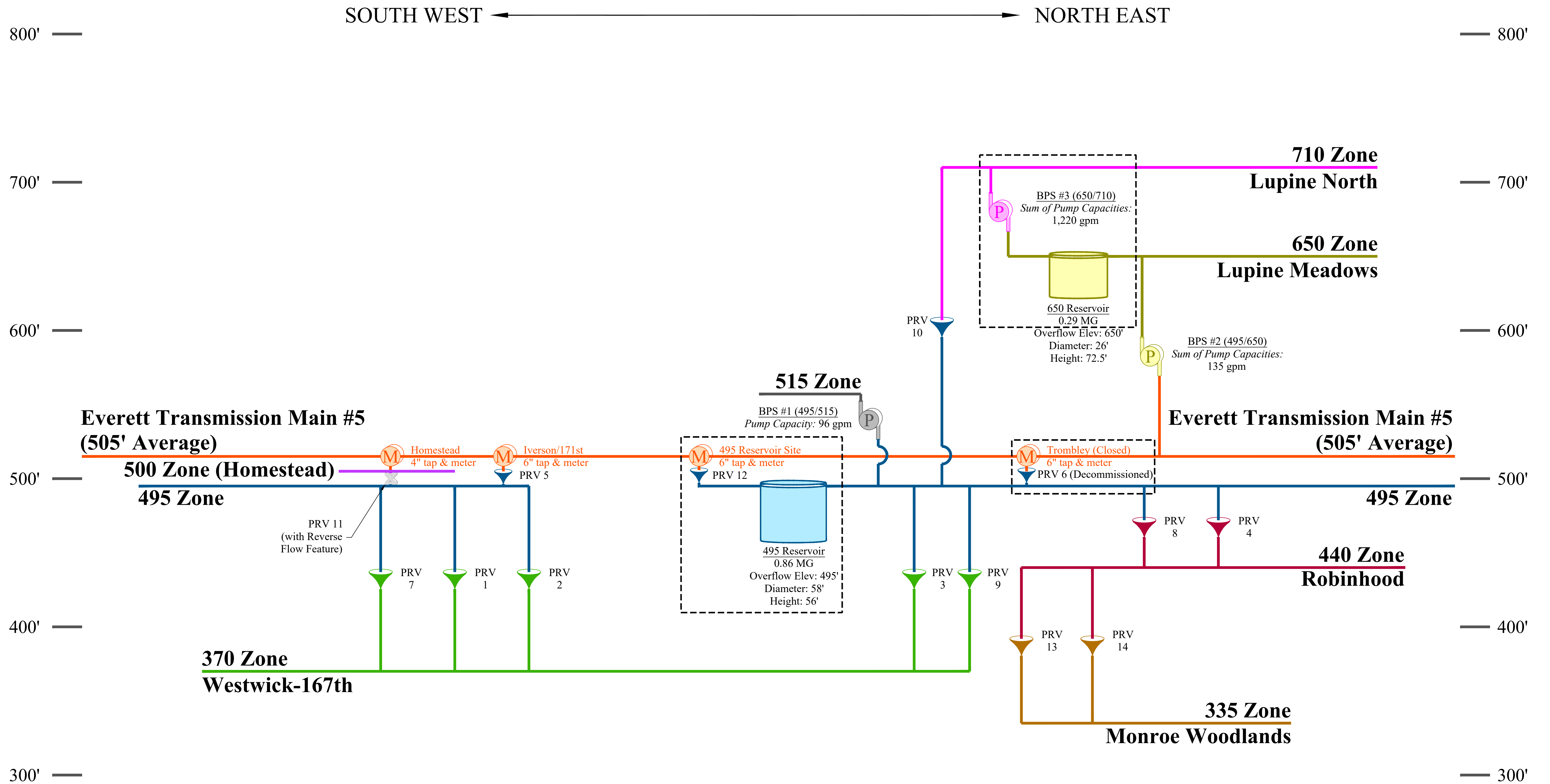


1 inch = 1,000 feet
0 500 1,000 2,000 Feet

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



J:\DATA\RAWA20-0064\GIS\MAPS\FIGURE 1 EXISTING SYSTEM MAP.MXD BY: SPERKINS PLOT DATE: FEB 18, 2021 COORDINATE SYSTEM: NAD 1983 HARN STATEPLANE WASHINGTON NORTH FIPS 4601 FEET



Legend

- 710 Zone
- 650 Zone
- Everett Transmission Main #5
- 515 Zone
- 500 Zone (Homestead)
- 495 Zone
- 440 Zone
- 370 Zone
- 335 Zone
- Booster Pump Station
- Pressure Reducing Station
- Meter
- Facilities at Same Site

Figure 2
Existing System Hydraulic Profile
Roosevelt Water Association
Water System Plan

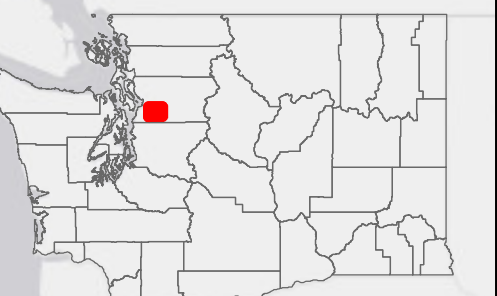


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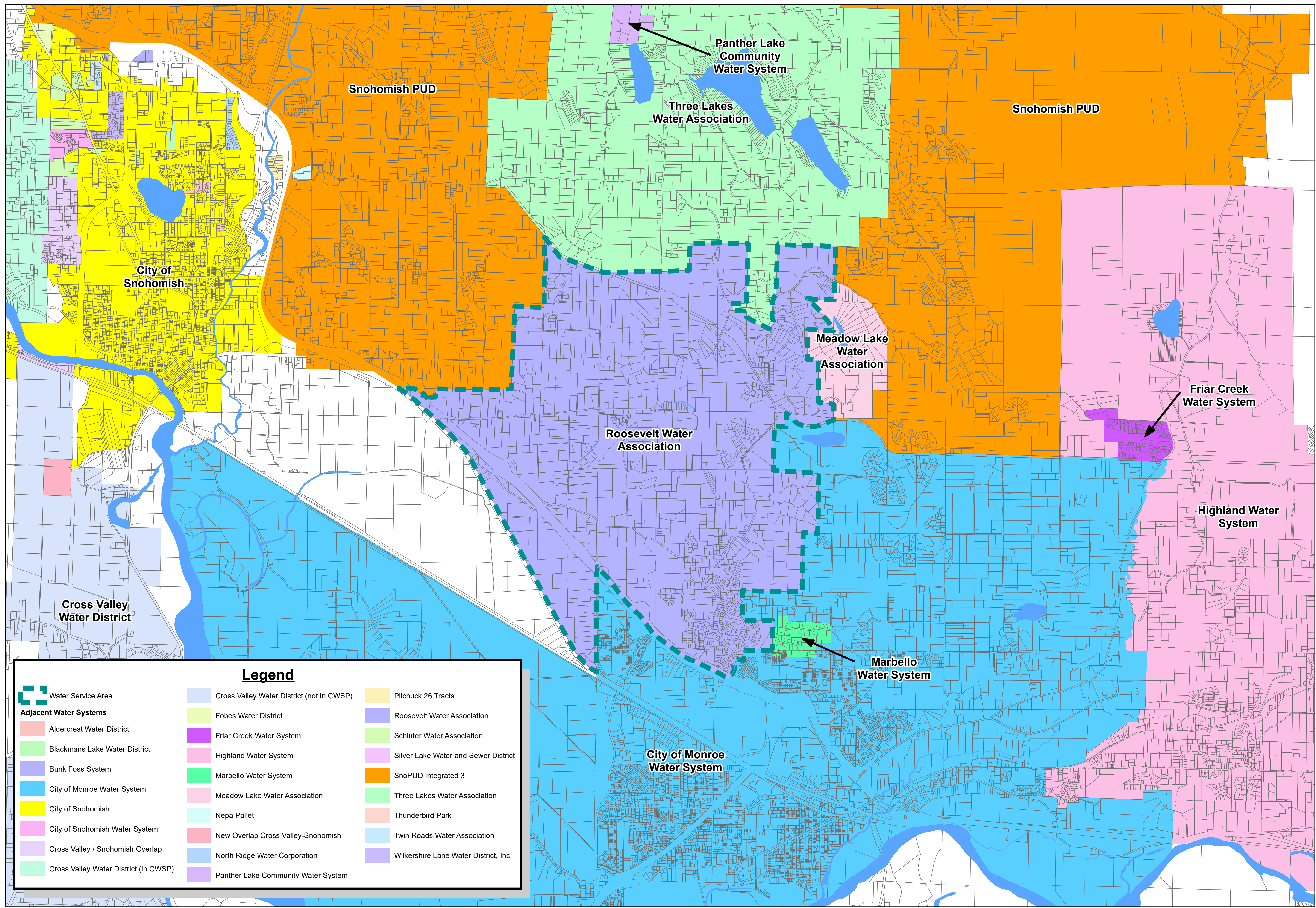
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Vicinity Map



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**Figure 3
Adjacent Water System Map
Roosevelt Water Association
Water System Plan**



Legend		
	Water Service Area	
	Cross Valley Water District (not in CWSP)	
	Fobes Water District	
	Friar Creek Water System	
	Highland Water System	
	Marbello Water System	
	Meadow Lake Water Association	
	Nepa Pallet	
	New Overlap Cross Valley-Snohomish	
	North Ridge Water Corporation	
	Panther Lake Community Water System	
	Pilchuck 26 Tracts	
	Roosevelt Water Association	
	Schluter Water Association	
	Silver Lake Water and Sewer District	
	SnoPUD Integrated 3	
	Three Lakes Water Association	
	Thunderbird Park	
	Twin Roads Water Association	
	Wilkershire Lane Water District, Inc.	

J:\DATA\RA\20-0064\GIS\MAPS\Figure 3 ADJACENT WATER SYSTEMS.MXD BY: SPERKINS PLOT DATE: FEB 18, 2021 COORDINATE SYSTEM: NAD 1983 HARN STATEPLANE WASHINGTON NORTH FIPS 4601 FEET



1 inch = 2,000 feet
0 1,000 2,000 4,000 Feet

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



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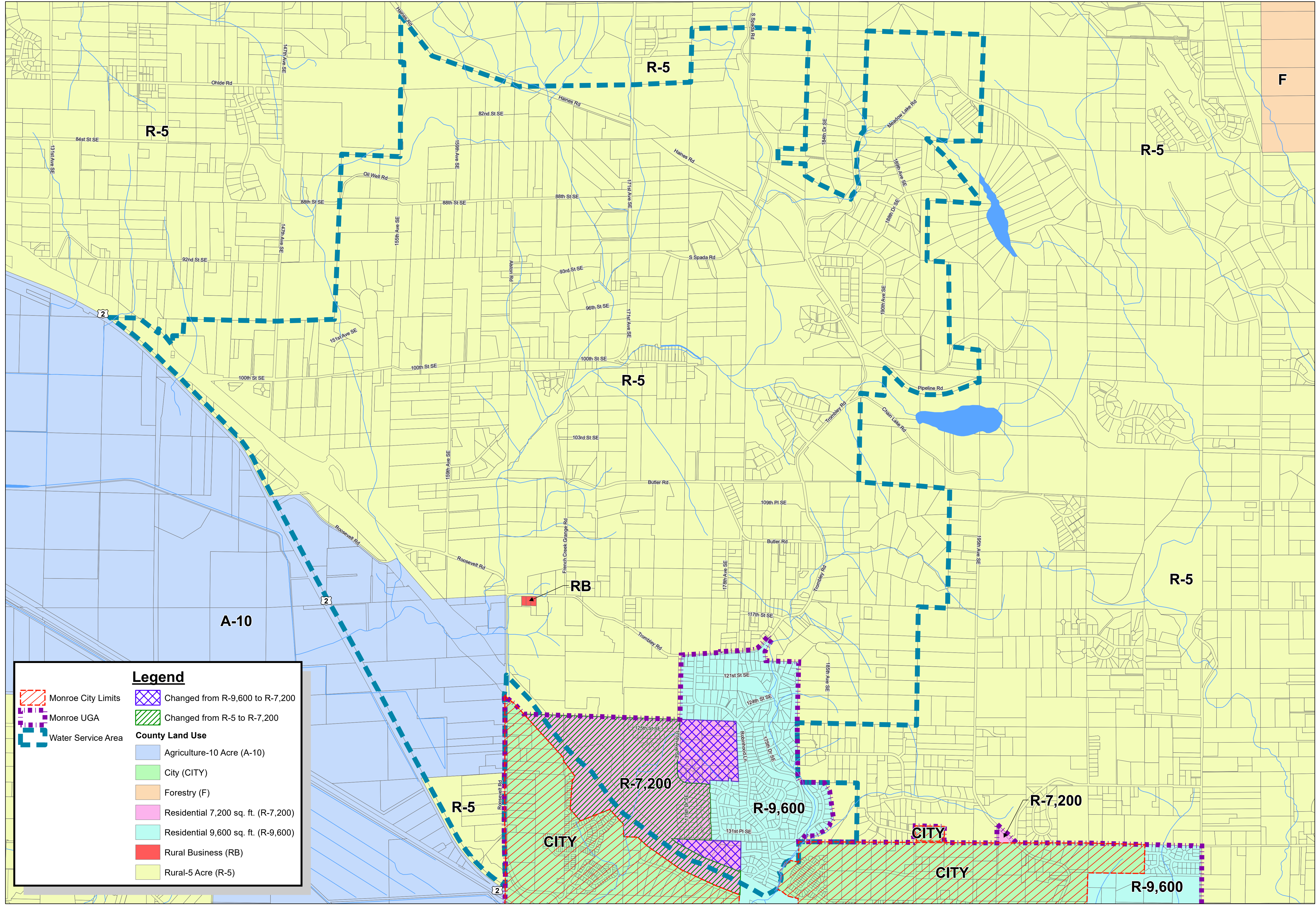
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Vicinity Map



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**Figure 4
Land Use Map
Roosevelt Water Association
Water System Plan**



Legend

- Monroe City Limits
- Monroe UGA
- Water Service Area
- Changed from R-9,600 to R-7,200
- Changed from R-5 to R-7,200

County Land Use

- Agriculture-10 Acre (A-10)
- City (CITY)
- Forestry (F)
- Residential 7,200 sq. ft. (R-7,200)
- Residential 9,600 sq. ft. (R-9,600)
- Rural Business (RB)
- Rural-5 Acre (R-5)

J:\DATA\RAWA20-0064\GIS\MAPS\FIGURE 4 LAND USE MAP.MXD BY: SPERKINS PLOT DATE: FEB 18, 2021 COORDINATE SYSTEM: NAD 1983 HARN STATEPLANE WASHINGTON NORTH FIPS 4601 FEET



1 inch = 1,000 feet
0 500 1,000 2,000 Feet

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"



Appendix A

2007 Water System Plan

(See link to PDF of this Reference Document)

Appendix B
2014 Water System Plan Update

(See link to PDF of this Reference Document)

Appendix C
650/710 Booster Pump Station and 495 Reservoir
Improvements Project Report

(See link to PDF of this Reference Document)

Appendix D
Consistency Statement Checklist

Local Government Consistency Determination Form

Water System Name: Roosevelt Water Association PWS ID: 74150

Planning/Engineering Document Title: Limited Water System Plan Plan Date: December 2020

Local Government with Jurisdiction Conducting Review: Snohomish County

Before the Department of Health (DOH) approves a planning or engineering submittal under Section 100 or Section 110, the local government must review the documentation the municipal water supplier provides to prove the submittal is consistent with **local comprehensive plans, land use plans and development regulations** (WAC 246-290-108). Submittals under Section 105 require a local consistency determination if the municipal water supplier requests a water right place-of-use expansion. The review must address the elements identified below as they relate to water service.

By signing this form, the local government reviewer confirms the document under review is consistent with applicable local plans and regulations. If the local government reviewer identifies an inconsistency, he or she should include the citation from the applicable comprehensive plan or development regulation and explain how to resolve the inconsistency, or confirm that the inconsistency is not applicable by marking N/A. See more instructions on reverse.

Local Government Consistency Statement	For use by water system	For use by local government
	Identify the page(s) in submittal	Yes or Not Applicable
a) The water system service area is consistent with the adopted <u>land use and zoning</u> within the service area.	Figure 4	
b) The <u>growth projection</u> used to forecast water demand is consistent with the adopted city or county's population growth projections. If a different growth projection is used, provide an explanation of the alternative growth projection and methodology.	Table 1	
c) For <u>cities and towns that provide water service</u> : All water service area policies of the city or town described in the plan conform to all relevant <u>utility service extension ordinances</u> .	N/A	
d) <u>Service area policies</u> for new service connections conform to the adopted local plans and adopted development regulations of all cities and counties with jurisdiction over the service area.	2007 WSP, App. D	
e) <u>Other relevant elements</u> related to water supply are addressed in the water system plan, if applicable. This may include Coordinated Water System Plans, Regional Wastewater Plans, Reclaimed Water Plans, Groundwater Management Area Plans, and the Capital Facilities Element of local comprehensive plans.	Pages 4-5	

I certify that the above statements are true to the best of my knowledge and that these specific elements are consistent with adopted local plans and development regulations.

Signature

Date

Printed Name, Title, & Jurisdiction

Consistency Review Guidance

For Use by Local Governments and Municipal Water Suppliers

This checklist may be used to meet the requirements of WAC 246-290-108. When using an alternative format, it must describe all of the elements; 1a), b), c), d), and e), when they apply.

For **water system plans (WSP)**, a consistency review is required for the service area and any additional areas where a municipal water supplier wants to expand its water right's place of use.

For **small water system management programs**, a consistency review is only required for areas where a municipal water supplier wants to expand its water right's place-of-use. If no water right place-of-use expansion is requested, a consistency review is not required.

For **engineering documents**, a consistency review is required for areas where a municipal water supplier wants to expand its water right's place-of-use (water system plan amendment is required). For noncommunity water systems, a consistency review is required when requesting a place-of-use expansion. All engineering documents must be submitted with a service area map (WAC 246-290-110(4)(b)(ii)).

A) Documenting Consistency: The planning or engineering document must include the following when applicable.

- a) A copy of the adopted **land use/zoning** map corresponding to the service area. The uses provided in the WSP should be consistent with the adopted land use/zoning map. Include any other portions of comprehensive plans or development regulations that relate to water supply planning.
- b) A copy of the **growth projections** that correspond to the service area. If the local population growth projections are not used, explain in detail why the chosen projections more accurately describe the expected growth rate. Explain how it is consistent with the adopted land use.
- c) Include water service area policies and show that they are consistent with the **utility service extension ordinances** within the city or town boundaries. *This applies to cities and towns only.*
- d) All **service area policies** for how new water service will be provided to new customers.
- e) **Other relevant elements** the Department of Health determines are related to water supply planning. See Local Government Consistency – Other Relevant Elements, Policy B.07, September 2009.

B) Documenting an Inconsistency: Please document the inconsistency, include the citation from the comprehensive plan or development regulation, and explain how to resolve the inconsistency.

C) Documenting a Lack of Local Review for Consistency: Where the local government with jurisdiction did not provide a consistency review, document efforts made and the amount of time provided to the local government for review. Please include: name of contact, date, and efforts made (letters, phone calls, and emails). To self-certify, please contact the DOH Planner.

The Department of Health is an equal opportunity agency. For persons with disabilities, this document is available on request in other formats. To submit a request, please call 1-800-525-0127 (TTY 1-800-833-6388).

Appendix E
SEPA and Determination of Non-Significance

SEPA ENVIRONMENTAL CHECKLIST

A. Background [\[HELP\]](#)

1. Name of proposed project, if applicable: **Limited Water System Plan**
2. Name of applicant: **Roosevelt Water Association (RWA)**
3. Address and phone number of applicant and contact person:
Janelle MacDicken, RWA Manager
PO Box 345
Snohomish, WA 98291
(360) 568-3450
4. Date checklist prepared: **December 10, 2020**
5. Agency requesting checklist: **Department of Health Northwest Drinking Water Operations and Snohomish County Planning and Development Services.**
6. Proposed timing or schedule (including phasing, if applicable): **Projects associated with this Limited Water System Plan (LWSP) could occur between December 2020 and December 2024. No specific projects are proposed at this time.**
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. **Maintenance and repairs of the water distribution system as needed.**
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. **None.**
9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. **No.**
10. List any government approvals or permits that will be needed for your proposal, if known. **Right of Way Permit – Snohomish County.**
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 LWSP includes projects to perform general maintenance, replacement and repair of the RWA water distribution system.**

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 RWA water distribution system is located in Snohomish County between Highway 2 to the southwest, Robinhood Lane and Trombley Road to the east and north, and Westwick Road and 171st Avenue to the north. The service area encompasses smaller roads off the main roads listed above.**

B. Environmental Elements [\[HELP\]](#)

1. **Earth** [\[help\]](#)

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

b. What is the steepest slope on the site (approximate percent slope)? **Approximately 15 percent to 20 percent in select locations.**

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

According to the Natural Resources Conservation Service (NRCS) Soil Survey, the following soil types are present throughout the RWA service area:

Alderwood gravelly sandy loam, 0 to 8 percent slopes; Alderwood gravelly sandy loam, 8 to 15 percent slopes; Alderwood gravelly sandy loam, 15 to 30 percent slopes; Bellingham silty clay loam; Cathcart loam, 15 to 25 percent slopes; Everett very gravelly sandy loam, 0 to 8 percent slopes; Everett very gravelly sandy loam, 8 to 15 percent slopes; McKenna gravelly silt loam, 0 to 8 percent slopes; Mukilteo muck; Norma loam; Orcas peat; Pastik silt loam, 0 to 8 percent slopes; Pastik silt loam, 8 to 25 percent slopes; Puget silty clay loam; Snohomish silt loam; Terric Medisaprists, nearly level; Tokul silt loam, 2 to 8 percent slopes; Tokul silt loam, 8 to 15 percent slopes; Tokul gravelly medial loam, 0 to 8 percent slopes; Tokul gravelly medial loam, 8 to 15 percent slopes; Tokul gravelly medial loam, 15 to 30 percent slopes; Tokul-Winston gravelly loams, 25 to 65 percent slopes; Winston gravelly loam, 0 to 3 percent slopes; Winston gravelly loam, 3 to 30 percent slopes; and Water.

Although the possible work locations are located in the Snohomish County right-of-way and areas are within a soil unit that is designated as agriculturally significant, these areas are existing roadway and developed sites within surrounding residential developments. The proposed project activities will not affect existing or future use of these soils for agriculture.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. **No.**

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill. **The RWA service area is approximately 8,000 acres. No filling, excavating, or grading is proposed at this time. If needed, trench backfill**

will consist of native soil or import material and pipe zone backfill and gravel backfill conforming to the Washington State Department of Transportation (WSDOT) Standard Specifications, with imported material obtained by the contractor. Material will be exported to a location determined by a contractor.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. **Erosion could occur during construction and clearing activities; however, construction best management practices (BMPs) have been included in the project design to reduce the chance for erosion, water quality impacts, and sedimentation resulting from construction activities.**

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? **No new impervious surfaces will be added. Existing impervious surfaces include roadways, driveways, water vaults, and the like.**

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: **During construction, appropriate temporary erosion and sedimentation control (TESC) measures will be implemented to limit the potential for erosion resulting directly from construction activities (e.g., limit clearing, proper soil cover, dust control, inlet protection, etc.).**

2. Air [\[help\]](#)

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known. **Temporary exhaust and dust emissions from construction equipment and vehicles is anticipated during construction. The finished project will not cause air emissions.**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. **No.**

c. Proposed measures to reduce or control emissions or other impacts to air, if any: **Construction equipment and vehicles shall conform with Washington State standards for air quality, including using properly functioning equipment and vehicles that have passed emissions testing, using clean-burning fuels when possible, limiting diesel exhaust, limiting vehicle idling, etc.**

3. Water [\[help\]](#)

a. Surface Water: [\[help\]](#)

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. **There are many named and unnamed tributaries to French Creek in the RWA service area. Richardson Creek and Chain Lake, and associated unnamed tributaries, are surface water bodies present near the northeastern service area. Additionally, many identified and unidentified wetlands are present in association with the above water bodies.**

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. **This SEPA checklist is intended to cover general maintenance and repair of the water system. Projects identified are not**

anticipated to require any work over, in, or adjacent to the described waters. The existing reservoir locations and water main alignments have been configured to minimize impacts to critical areas, specifically avoiding the main northern and southern tributary branches of French Creek, associated stream buffers, and wetlands. If projects are needed that do involve work over, in, or adjacent to surface water bodies or wetlands, individual SEPA review, Hydraulic Project Approval, Critical Areas compliance, and/or other permit approvals could be required. RWA will address these projects as they are needed.

- 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 excavation or fill within surface waters or wetlands is proposed or anticipated to occur.**
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. **No.**
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. **No.**
- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge. **No.**

b. Ground Water: [\[help\]](#)

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. **No.**
- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve. **None.**

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe. **Surface water in the RWA service area generally flows to the French Creek tributaries and area wetlands, including precipitation and stormwater. Stormwater is collected, sometimes treated, and discharged via stormwater infrastructure and facilities with eventual drainage to French Creek and it's tributaries and wetlands. Drainage patterns will be unchanged with the proposed projects.**
- 2) Could waste materials enter ground or surface waters? If so, generally describe. **No.**
- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. **No.**

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: **Follow all Snohomish County required best practices.**

4. Plants [\[help\]](#)

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

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- Orchards, vineyards or other permanent crops.
- wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

b. What kind and amount of vegetation will be removed or altered? **Projects are within developed areas or Snohomish County rights-of-way; no vegetation is anticipated to be removed or altered.**

c. List threatened and endangered species known to be on or near the site. **Based on a review of U.S. Fish and Wildlife Service (USFWS) Endangered Species Act (ESA) maps and data, Washington State Department of Natural Resources (DNR) Natural Heritage Data, and Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) data, there are no threatened or endangered plant species present near the projects identified as part of the LWSP.**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: **None.**

e. List all noxious weeds and invasive species known to be on or near the site. **Noxious or invasive plant species are present in the RWA service area, including Himalayan blackberry, Giant knotweed, and others.**

5. Animals [\[help\]](#)

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

Examples include:

- birds: hawk, heron, eagle, songbirds, other: Stellar's Jay, American crows, etc.
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened and endangered species known to be on or near the site. **Based on a review of National Marine Fisheries Service (NOAA-Fisheries) ESA data and maps, USFWS ESA maps and data, DNR Natural Heritage Data, and WDFW PHS data, and the Statewide Washington Integrated Fish Distribution (SWIFD) mapper, ESA-listed salmonids use**

portions of the French Creek tributaries, including Coho salmon and steelhead trout. No other threatened or endangered species are shown or known to utilize the resources within the RWA service area. The identified projects are not anticipated to involve work in or adjacent to streams supporting these salmonid species.

c. Is the site part of a migration route? If so, explain. **The entire region is part of the Pacific Flyway for migratory birds.**

d. Proposed measures to preserve or enhance wildlife, if any: **No specific measures proposed.**

e. List any invasive animal species known to be on or near the site. **None known or observed.**

6. Energy and Natural Resources [\[help\]](#)

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. **Gas, oil, and electricity will be used to power project equipment.**

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. **No.**

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: **None.**

7. Environmental Health [\[help\]](#)

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe. **No.**

1) Describe any known or possible contamination at the site from present or past uses.

None known.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity. **None known.**

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project. **None.**

4) Describe special emergency services that might be required. **None anticipated.**

5) Proposed measures to reduce or control environmental health hazards, if any: **None proposed.**

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? **Traffic noise is present throughout the RWA service area, but is not expected to have an effect.**

- 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. **Temporary construction noise would occur with the project. The contractor will need to follow Snohomish County's Noise Ordinance (Chapter 10.01 Snohomish County Code (SCC)), including controlling the level and timing of noise generated during construction. Noise generated during normal operation from the completed improvements will be in compliance with Snohomish County's Noise Ordinance.**
- 3) Proposed measures to reduce or control noise impacts, if any: **Noise generated during normal operation from the completed improvements will be in compliance with Snohomish County's Noise Ordinance.**

8. Land and Shoreline Use [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. **Water main lines are located in Snohomish County rights-of-way and repairs will not affect current land uses.**
- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use? **None.**
- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how: **No.**
- c. Describe any structures on the site. **None.**
- d. Will any structures be demolished? If so, what? **No.**
- e. What is the current zoning classification of the site? **Snohomish County right-of-way.**
- f. What is the current comprehensive plan designation of the site? **None known.**
- g. If applicable, what is the current shoreline master program designation of the site? **Not applicable.**
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify. **No.**
- i. Approximately how many people would reside or work in the completed project? **None.**
- 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: **None.**

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: **None.**

9. Housing [\[help\]](#)

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. **None.**

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. **None.**

c. Proposed measures to reduce or control housing impacts, if any: **None.**

10. Aesthetics [\[help\]](#)

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

b. What views in the immediate vicinity would be altered or obstructed? **None.**

b. Proposed measures to reduce or control aesthetic impacts, if any: **None.**

11. Light and Glare [\[help\]](#)

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? **None.**

b. Could light or glare from the finished project be a safety hazard or interfere with views? **No.**

c. What existing off-site sources of light or glare may affect your proposal? **None.**

d. Proposed measures to reduce or control light and glare impacts, if any: **None.**

12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity? **None.**

b. Would the proposed project displace any existing recreational uses? If so, describe. **None.**

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: **None.**

13. Historic and cultural preservation [\[help\]](#)

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe. **No.**

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources. **According to the Washington State Department of Archaeology and Historic Preservation's (DAHP) Washington Information System for Architectural and Archaeological Records Data (WISAARD), there is one National Historic Register (NHR) property recorded in the RWA water service area, which is the John Nelson Farmstead off of Butler Road. Additionally, there are several residences in the service area that are 50 years or older and have been studied to determine eligibility for inclusion on the NHR. The repair and maintenance projects associated with the RWA LWSP are not expected to have any impacts on historic or potentially historic properties. No other archaeological resources are specifically known or anticipated to be adversely impacted by projects implemented by RWA as part of this LWSP.**

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc. **Review of state data records and historic property inventory records (WISAARD) in the vicinity of the proposed improvements.**

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required. **RWA shall utilize standard Inadvertent Discovery Protocol language to guide the contractor if any artifacts or remains are inadvertently uncovered.**

14. Transportation [\[help\]](#)

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any. **Public roads within the RWA service area that include the following major roads and those roads intersecting them: Trombley Road, Robinhood Lane, Roosevelt Road, Hwy 2, 167th Avenue SE, 171st Avenue SE, Westwick Road, and W Spada Road.**

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop? **No.**

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? **None.**

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private). **No.**

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe. **No.**

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates? **None.**

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. **No.**
- h. Proposed measures to reduce or control transportation impacts, if any: **During construction, the contractor will provide traffic and pedestrian control in work areas as needed and in compliance with Snohomish County right-of-way construction standards.**

15. Public Services [\[help\]](#)

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe. **No.**
- b. Proposed measures to reduce or control direct impacts on public services, if any. **None.**

16. Utilities [\[help\]](#)

- a. Circle utilities currently available at the site: **RWA service area contains the following utilities: electricity, natural gas, water, refuse service, telephone, sanitary sewer, and septic systems.**
- c. 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. **RWA will provide the water. No other services required for the project.**

C. Signature [\[HELP\]](#)

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: Janelle MacDicken
Name of signee Janelle MacDicken
Position and Agency/Organization Roosevelt Water Association
Date Submitted: 1/7/2021

D. Supplemental sheet for nonproject actions [\[HELP\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise? **The repair, replacement and maintenance projects for which RWA anticipates completing as part of this LWSP have a limited potential to increase discharges to water, emissions to air, and production of noise. Increases could temporarily result during construction activities; however, with the implementation of appropriate BMPs, TESC measures, and design/construction by experienced staff, this potential to insignificant or discountable levels. Projects will not increase production, storage or release of toxic or hazardous substances.**

Proposed measures to avoid or reduce such increases are: **Project design and planning using experienced personnel, licensed engineers, and completed according to local, State, and federal regulations will serve to avoid and minimize potential discharge increases, emissions or noise impacts during construction. Projects would be expected to implement appropriate construction BMPs and TESC measures during construction, also minimizing adverse impacts.**

2. How would the proposal be likely to affect plants, animals, fish, or marine life? **Minimially. No adverse impacts are anticipated to affect plants, animals, fish or marine life. Repair, maintenance and replacement projects are largely confined to developed rights-of-way or disturbed, developed surfaces; areas that do not support animals, fish or marine life and typically do not contain significant vegetation, nor provide significant or high-quality habitats for animals, fish or marine life.**

Proposed measures to protect or conserve plants, animals, fish, or marine life are: **None specifically proposed. Projects will be vetted by RWA staff and consulting engineering staff, and planned/designed in a manner that minimizes impacts to waters, wetlands, forested habitats, and other areas that may support native plants, animals, fish or marine life. If needed, individual SEPA review will be conducted and applicable permits will be obtained. Permit conditions and requirements will be conveyed to the selected contractor and enforced during construction.**

3. How would the proposal be likely to deplete energy or natural resources? **Repair, maintenance or replacement projects would utilize oil, gasoline, electric energy during construction; however, the projects would not substantially deplete energy or natural resources.**

Proposed measures to protect or conserve energy and natural resources are: **None specifically proposed. Specific measures will be identified and included in project planning and design, as needed.**

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 projects that could be completed as part of this LWSP are unlikely to effect these resources as projects are largely confined to developed area or disturbed rights-of-way.**

Proposed measures to protect such resources or to avoid or reduce impacts are: **Thorough project planning, design, implementation will be completed, inherently aiding in avoidance and minimization of adverse impacts to these resources.**

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? **Land and shoreline use will be unaffected by the projects anticipated to be completed as part of this LWSP.**

Proposed measures to avoid or reduce shoreline and land use impacts are: **None proposed at this time.**

6. How would the proposal be likely to increase demands on transportation or public services and utilities? **The anticipated repair, replacement or maintenance projects should not increase demands on transportation, public services, or utilities. Projects are generally conceptualized to improve existing RWA water system operation and repair or replace aging infrastructure.**

Proposed measures to reduce or respond to such demand(s) are: **None proposed.**

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment. **Projects completed should be compatible with local, state or federal laws or requirements, and should be planned, designed and constructed in a manner that avoids and minimizes environmental impacts.**

Appendix F
2020 to 2024 Budget

Roosevelt Water Association

2017-2024 Budget

INCOME	2017 Actual	2018 Actual	2019 Actual	2020 Budget	Difference
Billing	\$872,332.70	\$866,035.25	\$897,759.37	\$897,759.37	
New Customer				\$405,000.00	
Income					
Income					
Income					
Total INCOME	\$872,332.70	\$866,035.25	\$897,759.37	\$1,302,759.37	

EXPENSES	2017 Actual	2018 Actual	2019 Actual	2020 Budget	Difference	2021 - P	2022 - P	2023 - P	2024 - P
1100 · Account Receivable	\$ 2,119.75	\$ 1,412.70	\$ 1,688.00	\$ 1,856.80	\$ 168.80	\$ 2,042.48	\$ 2,246.73	\$ 2,471.40	\$ 2,718.54
1500 · Equipment	\$ 745.63	\$ 9,467.09	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1510 · All pipeline facilities	\$ 55,923.12	\$ 73,725.19	\$ 291,834.49	\$ 321,017.94	\$ 29,183.45	\$ 353,119.73	\$ 388,431.71	\$ 427,274.88	\$ 470,002.36
1550 · Facilities added during year	\$ -	\$ 3,419.48	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1560 · Construction in progress	\$ 680,347.46	\$ 144,562.00	\$ 34,476.00	\$ 100,000.00	\$ 65,524.00	\$ 110,000.00	\$ 121,000.00	\$ 133,100.00	\$ 146,410.00
1560-01 · Booster Pump Station	\$ 656,513.95	\$ 12,332.84	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1560-03 · Office Building	\$ -	\$ 3,756.57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1561 · Meadow Lake Office	\$ 600.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2100 · Advance deposits	\$ -	\$ -	\$ 347.65	\$ 382.42	\$ 34.77	\$ 420.66	\$ 462.72	\$ 508.99	\$ 559.89
2206 · FICA - company	\$ 12,451.11	\$ 12,522.86	\$ 11,875.52	\$ 13,063.07	\$ 1,187.55	\$ 14,369.38	\$ 15,806.32	\$ 17,386.95	\$ 19,125.64
2221 · Medicare - company	\$ 2,911.95	\$ 2,928.74	\$ 2,777.34	\$ 3,055.07	\$ 277.73	\$ 3,360.58	\$ 3,696.64	\$ 4,066.30	\$ 4,472.93
2230 · L&I - company	\$ 7,360.98	\$ 7,796.41	\$ 5,349.12	\$ 5,884.03	\$ 534.91	\$ 6,472.44	\$ 7,119.68	\$ 7,831.65	\$ 8,614.81
2235 · SUTA - company	\$ 544.80	\$ 436.98	\$ 216.93	\$ 238.62	\$ 21.69	\$ 262.49	\$ 288.73	\$ 317.61	\$ 349.37
2240 · FUTA - company	\$ 267.85	\$ 210.00	\$ 210.00	\$ 231.00	\$ 21.00	\$ 254.10	\$ 279.51	\$ 307.46	\$ 338.21
2245 · Health Insurance	\$ 16,879.10	\$ 17,727.34	\$ 19,105.22	\$ 21,015.74	\$ 1,910.52	\$ 23,117.32	\$ 25,429.05	\$ 27,971.95	\$ 30,769.15
2850 · DWSRF Tank Construction Loan	\$ 120,518.53	\$ -	\$ 180,428.15	\$ 240,000.00	\$ 59,571.85	\$ 264,000.00	\$ 290,400.00	\$ 319,440.00	\$ 351,384.00
4320 · Water purchase	\$ 205,237.62	\$ 258,205.17	\$ 260,899.96	\$ 286,989.96	\$ 26,090.00	\$ 315,688.95	\$ 347,257.85	\$ 381,983.63	\$ 420,181.99
6012 · Automobile Expense	\$ 13,954.15	\$ 14,054.54	\$ 11,410.38	\$ 12,551.42	\$ 1,141.04	\$ 13,806.56	\$ 15,187.22	\$ 16,705.94	\$ 18,376.53
6014 · Bank Service Charges	\$ 42.00	\$ 142.16	\$ 20.00	\$ 22.00	\$ 2.00	\$ 24.20	\$ 26.62	\$ 29.28	\$ 32.21
6014-01 · Credit card fees	\$ 2,589.37	\$ 4,312.77	\$ 6,780.19	\$ 7,458.21	\$ 678.02	\$ 8,204.03	\$ 9,024.43	\$ 9,926.88	\$ 10,919.56
6015 · Bookkeeping	\$ 3,260.00	\$ 4,090.00	\$ 4,500.00	\$ 4,950.00	\$ 450.00	\$ 5,445.00	\$ 5,989.50	\$ 6,588.45	\$ 7,247.30
6025 · Directors Expense	\$ 124.55	\$ 258.80	\$ 519.74	\$ 571.71	\$ 51.97	\$ 628.89	\$ 691.77	\$ 760.95	\$ 837.05
6030 · Dues and Subscriptions	\$ 609.00	\$ 917.20	\$ 510.00	\$ 561.00	\$ 51.00	\$ 617.10	\$ 678.81	\$ 746.69	\$ 821.36
6040 · Engineering	\$ 3,280.65	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6050 · Insurance	\$ 11,901.00	\$ 14,002.00	\$ 15,646.00	\$ 17,210.60	\$ 1,564.60	\$ 18,931.66	\$ 20,824.83	\$ 22,907.31	\$ 25,198.04
6060 · Interest Expense	\$ 16,784.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6060-01 · DWSRF Tank Loan Interest Exp	\$ 4,726.87	\$ 164,590.00	\$ 43,302.76	\$ 47,633.04	\$ 4,330.28	\$ 52,396.34	\$ 57,635.97	\$ 63,399.57	\$ 69,739.53
6070 · Legal Fees	\$ 4,349.50	\$ 1,309.80	\$ 383.50	\$ 421.85	\$ 38.35	\$ 464.04	\$ 510.44	\$ 561.48	\$ 617.63
6080 · Licenses and Permits	\$ 3,369.63	\$ 2,576.87	\$ 2,273.25	\$ 2,500.58	\$ 227.33	\$ 2,750.63	\$ 3,025.70	\$ 3,328.27	\$ 3,661.09
6081 · Location Services	\$ 1,003.62	\$ 713.37	\$ 1,127.46	\$ 1,240.21	\$ 112.75	\$ 1,364.23	\$ 1,500.65	\$ 1,650.71	\$ 1,815.79
6082 · Meals	\$ 99.43	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6085 · Miscellaneous Expense	\$ 4.56	\$ 128.00	\$ 203.93	\$ 224.32	\$ 20.39	\$ 246.76	\$ 271.43	\$ 298.57	\$ 328.43
6090 · Office Supplies	\$ 3,631.59	\$ 7,210.06	\$ 5,698.78	\$ 6,268.66	\$ 569.88	\$ 6,895.52	\$ 7,585.08	\$ 8,343.58	\$ 9,177.94
6091 · Medical Insurance	\$ 17,140.08	\$ 20,741.80	\$ 16,944.11	\$ 18,638.52	\$ 1,694.41	\$ 20,502.37	\$ 22,552.61	\$ 24,807.87	\$ 27,288.66
6092 · Dental Insurance	\$ -	\$ -	\$ 1,100.04	\$ 1,210.04	\$ 110.00	\$ 1,331.05	\$ 1,464.15	\$ 1,610.57	\$ 1,771.63
6093 · Postage	\$ 3,001.87	\$ 3,726.68	\$ 3,607.47	\$ 3,968.22	\$ 360.75	\$ 4,365.04	\$ 4,801.54	\$ 5,281.70	\$ 5,809.87
6096 · Professional Fees	\$ 5,350.00	\$ 6,125.00	\$ 5,745.00	\$ 6,319.50	\$ 574.50	\$ 6,951.45	\$ 7,646.60	\$ 8,411.25	\$ 9,252.38
6097 · Rent	\$ 9,774.55	\$ 9,636.70	\$ 9,475.58	\$ 10,423.14	\$ 947.56	\$ 11,465.45	\$ 12,612.00	\$ 13,873.20	\$ 15,260.52
6098 · Repairs	\$ 51,300.58	\$ 54,708.76	\$ 63,970.55	\$ 70,367.61	\$ 6,397.06	\$ 77,404.37	\$ 85,144.80	\$ 93,659.28	\$ 103,025.21
6100 · Salaries-Office	\$ 9,506.25	\$ 8,112.50	\$ 4,937.50	\$ 5,431.25	\$ 493.75	\$ 5,974.38	\$ 6,571.81	\$ 7,228.99	\$ 7,951.89
6105 · Salaries-Outside Assistant	\$ 23,537.50	\$ 26,062.50	\$ 30,400.00	\$ 33,440.00	\$ 3,040.00	\$ 36,784.00	\$ 40,462.40	\$ 44,508.64	\$ 48,959.50
6110 · Salaries-Supervisor	\$ 77,497.57	\$ 77,751.72	\$ 80,558.62	\$ 88,614.48	\$ 8,055.86	\$ 97,475.93	\$ 107,223.52	\$ 117,945.88	\$ 129,740.46
6120 · Salaries-Water Other	\$ 85,207.50	\$ 84,303.00	\$ 61,157.50	\$ 67,273.25	\$ 6,115.75	\$ 74,000.58	\$ 81,400.63	\$ 89,540.70	\$ 98,494.77
6125 · SIMPLE IRA Expense (Co. Match)	\$ -	\$ 4,070.04	\$ 4,584.35	\$ 5,042.79	\$ 458.44	\$ 5,547.06	\$ 6,101.77	\$ 6,711.95	\$ 7,383.14
6130 · Seminars and Education	\$ 225.00	\$ 740.00	\$ 200.00	\$ 220.00	\$ 20.00	\$ 242.00	\$ 266.20	\$ 292.82	\$ 322.10
6135 · Small Tools	\$ 252.86	\$ 337.40	\$ 109.09	\$ 120.00	\$ 10.91	\$ 132.00	\$ 145.20	\$ 159.72	\$ 175.69
6145 · Software purchase/renewal	\$ -	\$ -	\$ 1,113.00	\$ 1,224.30	\$ 111.30	\$ 1,346.73	\$ 1,481.40	\$ 1,629.54	\$ 1,792.50
6150 · Taxes-Federal P/R	\$ 15,201.42	\$ 15,107.99	\$ 13,713.90	\$ 15,085.29	\$ 1,371.39	\$ 16,593.82	\$ 18,253.20	\$ 20,078.52	\$ 22,086.37
6160 · Taxes-Excise	\$ 43,980.31	\$ 47,167.70	\$ 55,053.52	\$ 60,558.87	\$ 5,505.35	\$ 66,614.76	\$ 73,276.24	\$ 80,603.86	\$ 88,664.24
6170 · Taxes-L&I	\$ 7,904.83	\$ 7,288.71	\$ 5,291.70	\$ 5,820.87	\$ 529.17	\$ 6,402.96	\$ 7,043.25	\$ 7,747.58	\$ 8,522.34
6175 · Taxes-SUTA	\$ 577.82	\$ 412.66	\$ 190.28	\$ 209.31	\$ 19.03	\$ 230.24	\$ 253.26	\$ 278.59	\$ 306.45
6178 · Taxes - FUTA	\$ 210.00	\$ 210.00	\$ 243.15	\$ 267.47	\$ 24.32	\$ 294.21	\$ 323.63	\$ 356.00	\$ 391.60
6179 · Taxes - other	\$ 269.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6180 · Telephone	\$ 9,644.73	\$ 8,077.24	\$ 9,522.82	\$ 10,475.10	\$ 952.28	\$ 11,522.61	\$ 12,674.87	\$ 13,942.36	\$ 15,336.60
6190 · Utilities	\$ 3,605.48	\$ 3,226.56	\$ 3,545.71	\$ 3,900.28	\$ 354.57	\$ 4,290.31	\$ 4,719.34	\$ 5,191.27	\$ 5,710.40
6195 · Water Tests	\$ 4,697.50	\$ 2,218.00	\$ 4,765.57	\$ 5,242.13	\$ 476.56	\$ 5,766.34	\$ 6,342.97	\$ 6,977.27	\$ 7,675.00
7067 · Developer Expense	\$ 26,399.64	\$ 479.98	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7067-01 · Golf Course Estates	\$ -	\$ 43.82	\$ 43.82	\$ 48.20	\$ 4.38	\$ 53.02	\$ 58.32	\$ 64.16	\$ 70.57
7067-02 · Monroe Woodlands	\$ -	\$ 15,010.81	\$ 13,507.81	\$ 14,858.59	\$ 1,350.78	\$ 16,344.45	\$ 17,978.90	\$ 19,776.78	\$ 21,754.46
7067-03 · Highland Estates	\$ -	\$ 1,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7100-02 · Monroe Woodlands	\$ -	\$ 657.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9990 · Suspense	\$ 10.00	\$ 83.68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9999 · Miscellaneous	\$ -	\$ 388.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,404,486.68	\$ 2,608,087.86	\$ 2,250,856.06	\$ 1,524,107.44		\$ 1,676,518.19	\$ 1,844,170.00	\$ 2,028,587.00	\$ 2,231,445.70