

# Edison Subarea Advisory Board

## May 2026 Meeting Packet

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## 5. Approval of Meeting Minutes

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# Edison Subarea Advisory Board

## April 2026 Meeting Minutes

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Date: Wednesday, April 22, 2026

Time: 5:00 – 6:30 pm

Location: Edison Elementary School

### 1. Call to Order

The meeting was called to order at 5:05 pm, Wednesday, March 25, 2026, by the ESAB Chair, Bernie Alonzo

### 2. Roll Call /Attendance

Bernie Alonzo, Tom Skinner, Scott Mangold, Jess Hackler, Lavelle Pilon, Don Erickson, Mike Tamman

### 3. Public Comment

There was no public in attendance

### 4. Approval of Agenda

Approval of Agenda: Moved - Bernie, 2<sup>nd</sup> - Second - Tom. All in favor.

### 5. Approval of Minutes

With one correction to the DRAFT minutes—the Department of Ecology Manager who was seeking the Capacity Plan, is the PERMIT Manager, not the GRANT Manager—the March Minutes were approved

Approval of Minutes: Moved - Tom, 2<sup>nd</sup> - Scott. All in favor, meeting minutes approved.

### 6. Reports

#### **SPECIAL REPORT:**

With Darryl Kvistad's passing on March 24, 2026 the Board will send a community letter honoring his life and contributions to our community well-being. This is to be distributed prior to and separately from the upcoming newsletter.

## *Administrative Report*

Bernie asked the board to be considering potential new board members and encourage them to consider becoming members of the ESAB.

He touched on the headline topics of this meeting and requested we continue to review the calendar and be prepared for the timely fulfillment of our individual and joint responsibilities.

The 2027 Meeting Schedule was presented, reviewed and requested to be posted on the website.

## *Special Projects Report*

There was a video conference with G&O on April 7. Lavelle, Erin Langley, Jess, Bernie, and Don attended. To be discussed in the County Liaison report

## *Maintenance Report*

The owners of the commercial tanks needing pumping have been notified by Scott. The tanks are yet to be pumped. Lisa Cooney will be getting her tank pumped soon. Dogs and access have hampered the timing. Scott should begin to monitor the DOH pump record at the County so the board is better informed on the status of tanks needing pumping. We need to follow policy regarding pumping. Unpumped tanks after 60 days (residential) and 30 days (commercial) will be pumped by the maintenance contractor at the direction of the ESAB. The maintenance contractor will invoice the landowner directly.

No one knows where the carrier lift assemblies for the pump installation are. Jess didn't hear back about a new delivery plan. When they are located, Mike asked that they be sent to his shop for receiving. Additionally, the pump after rebuild should be delivered to his shop.

Confusion continues with Eurofins accounts, Drain Dr. and Skagit County. Starting now, the samples will be labeled "Public Works, Edison". Mike will discard Eurofins Chain of Custody sheet and instead manage this data using the Drain Doctor and County forms.

## *Operator Report*

The sampling results continue to look good this month. Pump numbers are accounting for all the product.

Don needs a signature form from the County so he can continue to sign DMR's.

## *County Liaison Report*

### **UV Treatment System Replacement Project**

The attendees of the April 7 Meeting provided a recap to the board. The overview was that when the scope of this project changed to being able to replace the UV bulbs in the existing infrastructure, the engineering needs were lessened. The ESAB and County believe we can save money by limiting the engineering to be representative of the current project requirements. More discussion to be had between County and G&O.

The County and the ESAB will continue our timeline, to have the project completed by August 2025

### **FINANCES**

Lavelle provided YTD expense reports. Contract tracking didn't make it to the meeting and all agreed we could wait to review the data at the next meeting. Eurofins billing the wrong amount again

## **7. Unfinished Business**

### **FUTURE CONNECTIONS/ADU Errors**

Tom presented his findings regarding outstanding sewer shares and accuracy of rate charges for futures and ADU's. He found the Treasurer to be helpful and impressed by the spreadsheet Bernie created as a master list of our users.

The rate issues will be corrected and any refunds necessary can be made through our next rate assessments.

### **GROUND WATER SAMPLING**

Ecology provided notice for us to commence with our ground water sampling permit requirement. We need to establish who will be doing the physical sampling. Lavelle found a large cache of sampling equipment at the county that seems to encompass the necessary tools do the sampling. Don mentioned that he would be interested in doing, at least, the first 2 sample sessions.

### **BOARD POSITION**

We have an open position on the Board to fill

## **8. New Business**

None.

## 9. Announcements

The next ESAB meeting will be held at the Teacher / Staff Room of the Edison Elementary School at 5:00 pm, Wednesday, May27, 2026.

## 10.Adjournment

Motion to adjourn at 6:38 pm. Moved: Bernie, second: Scott, approved: all. Meeting ends.

## 6. Reports

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# 6A – Administrative Report

## Monthly Update

We need to find candidates to fill the ESAB position vacated by Darryl's passing. Please continue to recruit community members who you think would be a positive contributor to the ESAB and be prepared to discuss the position, responsibilities, and value the ESAB brings to the town. Has anyone discussed the ESAB with any interested community members?

In early May, Tom and I reviewed Tom's work on the outstanding shares and assessments questions. I reviewed the 2025 Property Tax Assessments and compared it with the ESCWD Site Numbers information, and the Skagit County iMap parcels to provide more detail. We will discuss this in more detail in the Unfinished Business portion of the agenda.

Dave Matthews, our permit manager, provided Don with an announcement about grant preparation training opportunities. The suggestion raises a couple of additional issues that we will discuss in the New Business portion of the agenda.

Recent and upcoming deadlines from the annual planning calendar:

| Item                                                                                                          | Due Date                                  | Action By          | Complete |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------|----------|
| <del>Permit Compliance: ECY Form 1A</del>                                                                     | <del>April 15, 2026</del>                 | <del>Lavelle</del> | Yes      |
| Special Project: UV replacement Final G&O Report                                                              | April/May                                 | Erin               |          |
| Grant Management: FEATS Report                                                                                | April, 2026                               | Erin               |          |
| ESAB Actions: Futures Share Reconciliation – Initial Findings                                                 | <del>April 22, 2026</del><br>May 27, 2026 | Tom<br>Bernie      |          |
| Special Project: UV Replacement Permits (DOH)                                                                 | May, 2026                                 | Erin               |          |
| ESAB Actions: Futures Share Reconciliation – Review<br><b>Memo</b> with County Staff ( <del>Assessor?</del> ) | <del>May, 2026</del><br>June, 2026        | Tom &<br>Bernie    |          |
| ESAB Actions: Futures Share Reconciliation – Hand-off results to Rate Committee                               | June, 2026                                | Tom                |          |
| ESAB Actions: 2027 Annual Planning Calendar Session 1                                                         | June, 2026                                | Bernie             |          |
| County Actions: New Maintenance Contract Check-in w/ ESAB                                                     | June, 2026                                | Lavelle            |          |
| Ground Water Sampling – Q2                                                                                    | June, 2026                                | Don                |          |
| Special Project: UV Replacement Final Design (G&O)                                                            | July                                      | Erin               |          |
| Grant Management: FEATS Report                                                                                | July                                      | Erin               |          |
| ESAB Actions: Update Rates                                                                                    | July                                      | Scott              |          |
| Special Project: UV Replacement Final Design and Contracts Approval                                           | August                                    | SC BOCC            |          |
| ESAB Actions: Recommend Rates                                                                                 | August                                    | Scott              |          |
| Ground Water Sampling – Q3                                                                                    | TBD, 2026                                 | Don                |          |

## 6B – Maintenance Report

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Edison Sub-Area  
Commercial Site Water Meter Readings

Date: 5-13-26

Technicians: JOSE

| Business Name          | Site#           | Meter Reading    | Cubic Ft Used               |
|------------------------|-----------------|------------------|-----------------------------|
| <u>Edison Cafe</u>     | <u>20</u>       | <u>192.45</u>    | <u>                    </u> |
| <u>Longhorn Saloon</u> | <u>30</u>       | <u>1876.62</u>   | <u>                    </u> |
| <u>The Bread Farm</u>  | <u>31</u>       | <u>1672.73</u>   | <u>                    </u> |
| <u>Tweets</u>          | <u>32 North</u> | <u>630.36</u>    | <u>                    </u> |
|                        | <u>South</u>    | <u>66.88</u>     | <u>                    </u> |
| <u>Mariposa</u>        | <u>36</u>       | <u>558.54</u>    | <u>                    </u> |
| <u>Edison Inn</u>      | <u>37</u>       | <u>1188.41</u>   | <u>                    </u> |
| <u>Edison School</u>   | <u>73</u>       | <u>177020.44</u> | <u>                    </u> |
| <u>5821 Cains Crt</u>  | <u>38</u>       | <u>335.16</u>    | <u>                    </u> |

## Edison Lift Station

Date: 5-13-26

Tech: JOSE

### Counter # 1

Events 52646

Run Time 3556.01

### Counter # 2

Events 51740

Run Time 6958.71

Siemens Totalizer 748688

Comments: 1 pump had just kicked on when  
opening panel. I stopped it & got these dtds.  
Levels good. Floats work normal.  
Buzzer works good.

Draw Downs ✓

North Pump ✓ Inches ~~2.0~~ 2 3/4" Min 1

South Pump ✓ Inches 2.5" Min 1

Site# 74

Chs: Jose

Date: 5-13-21

Job# 48

Edison School

## Panel Readings

#1

Hr: 1212.42

Events: 38292

Ordn: /

#2

Hr: 1322.67

Events: 39620

Ordn: /

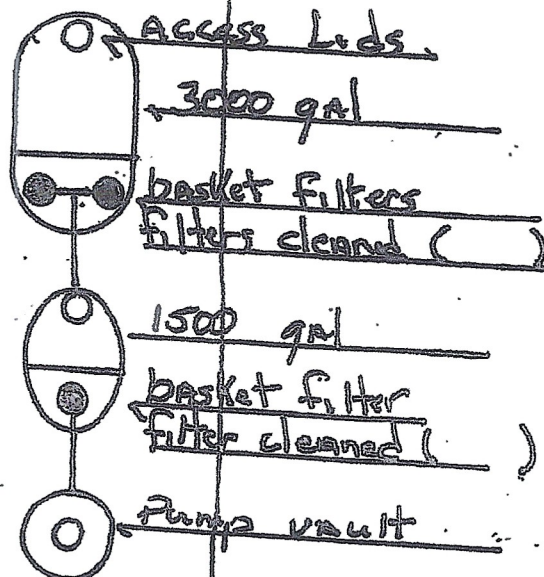
scum: \_\_\_\_\_  
sludge: \_\_\_\_\_

scum: \_\_\_\_\_  
sludge: \_\_\_\_\_

scum: \_\_\_\_\_  
sludge: \_\_\_\_\_

scum: \_\_\_\_\_  
sludge: \_\_\_\_\_

scum: \_\_\_\_\_  
sludge: \_\_\_\_\_



Comments:

All working normal.

## Pump Clarifier

Date / 5-13-26

Tech: JOSE

Opened Gates to Tanks. Transferred effluent  
from Small to Big Tank. Warmed up Excavator.  
Closed and Locked gates back up.

# 6C – Operations Report

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Wastewater Services, LLC

April 30, 2026

### Edison WWTF Operators Report

April 6<sup>th</sup>, collected monthly samples for lab analysis, the flow was 7620 gallons, and the return rate was 5.8:1. The recirculating tank pH was 6.5, and effluent pH was 6.5. I inspected the site, was unable to see any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle. A visual inspection of the recirculating ball valve was found to be functioning correctly, and the facility is clean and well kept.

April 14<sup>th</sup>, the lab analysis showed a fecal count of <1.8 MPN/100ml and a 59% reduction in TSS and an 80% reduction in BOD. All were found to be within the expected range.

April 27<sup>th</sup>, cleaned the UV lamps, recirculating ball valve and a visual inspection of both appeared to be functioning correctly. The flow was 6732 gallons, and the return rate was 8.9:1, I was unable to observe any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle. I checked the solids level in the secondary settling tank and found 1.0' and .75', last cleaned on 4/7/26 by the maintenance contractor.

Sincerely,

*Don Erickson*

WWTP Operator  
360-672-5378

# 6D – Special Projects Report

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# **SKAGIT COUNTY EDISON CLEAN WATER DISTRICT**

SKAGIT COUNTY

WASHINGTON



## **WASTEWATER TREATMENT PLANT ULTRAVIOLET DISINFECTION SYSTEM REPLACEMENT ENGINEERING REPORT**

**G&O #25476  
MAY 2026**



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS

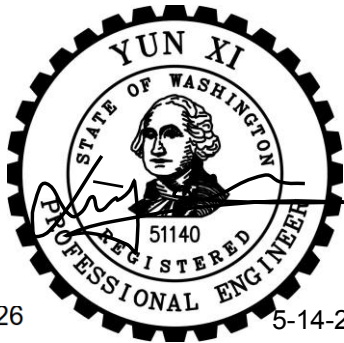
# SKAGIT COUNTY EDISON CLEAN WATER DISTRICT

SKAGIT COUNTY

WASHINGTON



## WASTEWATER TREATMENT PLANT ULTRAVIOLET DISINFECTION SYSTEM REPLACEMENT ENGINEERING REPORT



G&O #25476  
MAY 2026



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS

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# CHAPTER 1

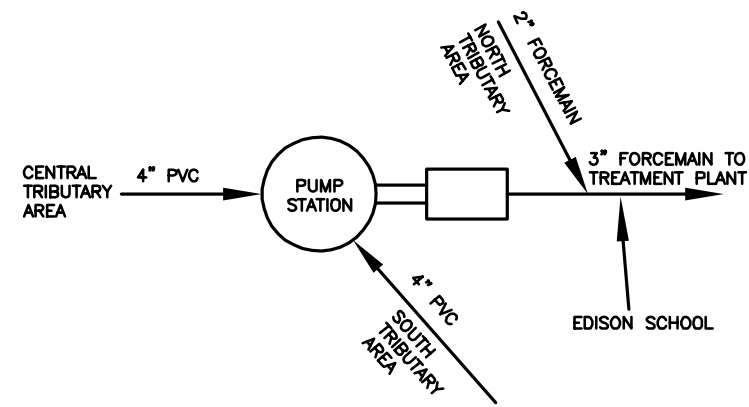
## INTRODUCTION

This Edison Wastewater Treatment Facility (WWTF) Ultraviolet (UV) Disinfection System Engineering Report was developed for the Skagit County Edison Clean Water District to present design criteria and a preliminary design for replacement of the existing UV disinfection system at the WWTF. The replacement of the UV disinfection system was recommended in *Skagit County Edison Clean Water District Wastewater Capacity Plan (Capacity Plan)* (Gray & Osborne, Inc., January 2024). This report summarizes current UV disinfection system design criteria and existing facilities, and provides design criteria, preliminary cost estimates and a project schedule for the recommended improvements.

Since this project only includes replacement of the existing UV disinfection system, this project could be interpreted to include maintenance, only. However, because State funding is involved in financing this project, this Engineering Report has been prepared to be in conformance with the State of Washington Engineering Report requirements (WAC 173-240-060) as much as practicable.

The Owner of the facilities is Skagit County Planning & Development Services, 1800 Continental Place, Mount Vernon, Washington 98273, Telephone; 360-416-1320. The authorized representative is Erin Langley, Senior Natural Resource Planner, Telephone: (360) 416-1335.

The project consists of replacement of the UV disinfection system at the existing WWTF site. A map of the of the present service area, including the location of the existing WWTF, is shown on Figure 1-1. Future expansion of the service area is not planned or expected.



NORTH TRIBUTARY AREA

CENTRAL TRIBUTARY AREA

SOUTH TRIBUTARY AREA

FORCEMAIN

GRAVITY SEWER

DISTRICT BOUNDARY

SHEET NUMBER (TYPICAL)

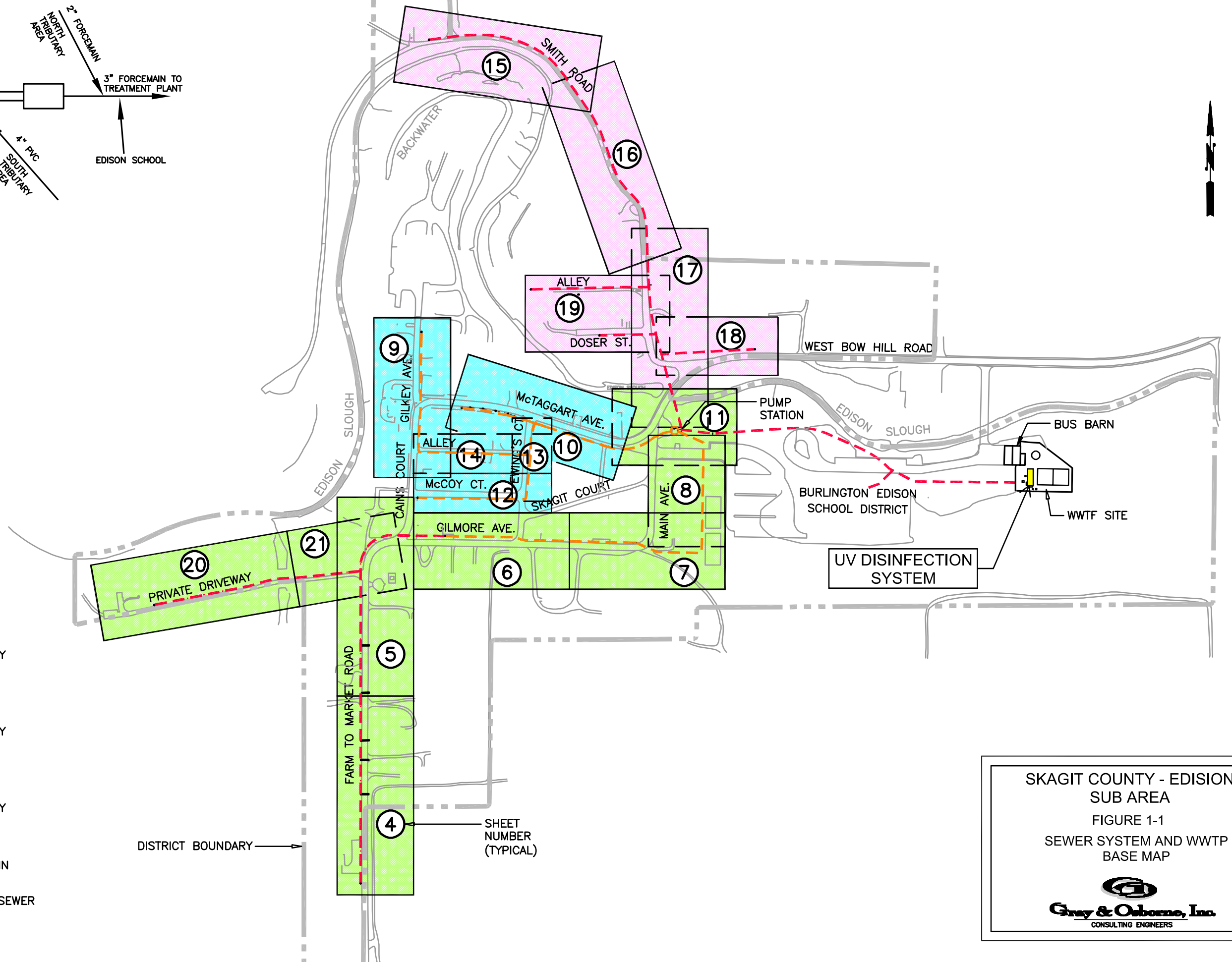
SKAGIT COUNTY - EDISON  
SUB AREA

FIGURE 1-1

SEWER SYSTEM AND WWTP  
BASE MAP



**Gray & Osborne, Inc.**  
CONSULTING ENGINEERS



## CHAPTER 2

### EXISTING FACILITIES

Skagit County installed a small diameter combination gravity and pressure STEP (septic tank effluent pump) collection system and wastewater treatment facility in 1997. The collection system conveys septic tank effluent from homes, restaurants and other commercial facilities to the treatment facility, serving approximately 74 connections, including six food service establishments (FSEs) and one school (without cooking cafeteria). There are no industrial users connected to the system. There are 11 stubs in the existing collection system for future connections. The system's only lift station pumps wastewater from the central and south tributary areas. The north tributary area is served by the north STEP system and the flow is conveyed to the lift station discharge force main. The combined flow including flow from Edison school is sent to the wastewater treatment facility.

The treatment process begins in the individual septic tanks, and then continues in a recirculating gravel filter, and UV disinfection prior to disposal to drainfields.

Most of the individual septic tanks are 1,000-gallon fiberglass-reinforced plastic (FRP) tanks that provide primary sedimentation, floating solids removal, oil and grease removal, anaerobic decomposition of solids, and physical filtration of non-settleable particles. Septic tanks remove a majority of the Biochemical Oxygen Demand (BOD<sub>5</sub>) and Total Suspended Solids (TSS) from the wastewater prior to conveyance through the collection system. The septic tanks serve as sedimentation tanks and prevent solid material from being pumped to the WWTF which could ultimately plug the gravel filters. Solids accumulate in the tanks over time and are hauled by a contractor to the Burlington WWTP. In addition, septage from the residents not connected to the collection system is also hauled by a contractor to the Burlington WWTP.

The restaurants and other FSEs have 1,500-gallon FRP septic tanks. All restaurants have grease traps installed to remove fats, oil and grease (FOG) prior to being introduced into the collection system.

The recirculating gravel filtration system further removes TSS, BOD, and some ammonia and nitrogen, using physical, chemical, and biological processes. The filtration system has four zones, two for each of the two gravel filters. Four recirculation chamber pumps deliver wastewater to each of the four quadrants of the recirculating gravel filters. The pumps are operated sequentially to rotate bed dosing. Wastewater passes through the filters and recollects in the recirculation tanks on average five times before flowing from the gravel filters through the main settling tank, to a smaller secondary settling tank, and finally through the UV disinfection system and out to the disposal fields. The recirculation tank is cleaned about every 2 years and the settled solids are hauled off to the Burlington WWTP.

The existing Trojan UV system is located in a stainless steel channel, cast into a concrete structure, and consists of three modules in parallel with two lamps per module.

According to the Record Drawings for the installation, the existing UV disinfection system is a Trojan Model No. UV 3075K-PTP with a capacity of 64,800 gallons per day (gpd). The system was designed for an effluent UV Transmittance of 60 percent and a monthly effluent fecal coliform limit of 100 FC/100 ml.

Power to the UV disinfection system is supplied by a panelboard (LXB) which is equipped with 100A breaker. Panelboard LXB is connected to the emergency generator during power outages.

## CHAPTER 3

### DESIGN CRITERIA FOR PROPOSED UV DISINFECTION SYSTEM REPLACEMENT

The design of UV Disinfection Systems is a function of three primary parameters. These are (1) wastewater flows; (2) effluent UV transmittance; and (3) regulatory pathogen (fecal coliform) effluent limits or pathogen reduction requirements. The following presents the development of these parameters for the Edison WWTF.

#### WASTEWATER FLOWS

The *Capacity Plan* presented design flows for the Edison WWTF based on data collected during the period from March 2020 through December 2022. These flows are shown in Table 3-1.

TABLE 3-1

#### WWTF Influent Flows

|                          | Average<br>Dry<br>Weather<br>Flow <sup>(1)</sup> | Annual<br>Average<br>Flow<br>(AAF) | Maximum<br>Monthly<br>Flow<br>(MMF) | Peak Day<br>Flow<br>(PDF) | Peak<br>Hour<br>Flow <sup>(2)</sup><br>(PHF) |
|--------------------------|--------------------------------------------------|------------------------------------|-------------------------------------|---------------------------|----------------------------------------------|
| WWTF Influent (gpd)      | 5,539                                            | 6,611                              | 9,177                               | 28,080                    | 36,504                                       |
| I/I <sup>(3)</sup> (gpd) | -                                                | 1,072                              | 3,637                               | 22,541                    | 30,965                                       |
| I/I percent              | -                                                | 16%                                | 40%                                 | 80%                       | 85%                                          |

(1) Average of July, August, September.

(2) PHF = 1.3\*PDF.

(3) I/I = flow – average dry weather flow.

Since much of the flow to the WWTF includes infiltration/inflow (I/I), the *Capacity Plan* recommended that I/I reduction measures should be undertaken before any improvements to the WWTF take place. In May 2024, some of these measures were completed. A major improvement was to grout and seal the lift station wet well wall and floor. Other improvements included eliminating inflow by repairing crawlspace piping at 5979 Farm to Market Road and replacing lid gaskets at multiple septic tank effluent pump stations.

As a part of this project, WWTF records for the 5-year period from March 2020 through December 2024 were reviewed and analyzed to determine current wastewater characteristics and influent loadings to determine whether the I/I reduction measures have an effect on the influent wastewater characteristics.

## INFLUENT WASTEWATER FLOWS

Table 3-2 summarizes reported WWTF flows for the 5-year period of 2020 through 2024. The average dry weather flow was relatively stable over that period. The peak day flow (PDF) typically occurs between December and March. The comparison of plant influent and rainfall in Figure 3-1 shows that wastewater flow is strongly influenced by rainfall. The peak day flow of 30,228 gpd occurred during a major storm event on November 16, 2021. The lower flows recorded in 2020 are most probably due to COVID lockdown. The school, as well as the restaurants, would not have contributed significant flows during 2020.

**TABLE 3-2**

### Historical WWTF Influent Flows (2020 to 2024)

| Year    | Average Dry Weather Flow (gpd) <sup>(1)</sup> | Annual Average Flow (gpd) | Maximum Monthly Flow (gpd) | Peak Day Flow (gpd) | Peak Hour Flow (gpd) <sup>(2)</sup> | Annual Rainfall (in.) | Population |
|---------|-----------------------------------------------|---------------------------|----------------------------|---------------------|-------------------------------------|-----------------------|------------|
| 2020    | 5,421                                         | 5,543                     | 6,774                      | 17,292              | 22,727                              | 35.9                  | 240        |
| 2021    | 5,703                                         | 6,752                     | 10,180                     | 30,228              | 39,296                              | 54.4                  | 242        |
| 2022    | 5,539                                         | 6,611                     | 9,177                      | 28,080              | 36,504                              | 39.7                  | 245        |
| 2023    | 5,798                                         | 6,254                     | 6,869                      | 14,472              | 25,641                              | 36.3                  | 247        |
| 2024    | 5,296                                         | 6,298                     | 7,512                      | 14,724              | 25,824                              | 56.1                  | 250        |
| Average | 5,552                                         | 6,292                     | 8,102                      | 20,959              | 29,998                              | 44.5                  |            |
| Maximum | 5,798                                         | 6,752                     | 10,180                     | 30,228              | 39,296                              | 56.1                  |            |

(1) Average of July, August, September.

(2) Not measured. Estimated using the higher of (1) PHF = 1.3\*PDF and (2) PHF = AAF (18+√P)/((4+√P)).

Without hourly flow records available to measure peak hour flows (PHF), the higher of the following values was used

- (1) 1.3 multiplied by the PDF (1.3 being a typical observed PHF/PDF peaking factor)
- (2) A population-based peaking factor multiplied by the annual average flow (the peak hour flow to annual average flow peaking factor as provided in the 2023 *Department of Ecology Criteria for Sewage Works Design (Orange Book)*):

$$PF = \frac{(18 + \sqrt{P})}{(4 + \sqrt{P})}$$

where P is the population, as shown in Table 3-2, in thousands.

As can be seen from Table 3-2, WWTP peak flows have been greatly reduced over the last 2 years because of infiltration/inflow reduction measures.

Monthly discharge monitoring reports (DMR) data for this period are summarized in Table 3-3. Flows are measured every day while BOD and TSS concentrations are measured, and loadings calculated, once every month.

Graphical representations of maximum and average monthly WWTF flows for the period from March 2020 through December 2024 are shown in Figures 3-2 and 3-3. As shown in Figure 3-1, the daily permit limit of 24,000 gpd was exceeded several times during the 2021/2022 winter season.

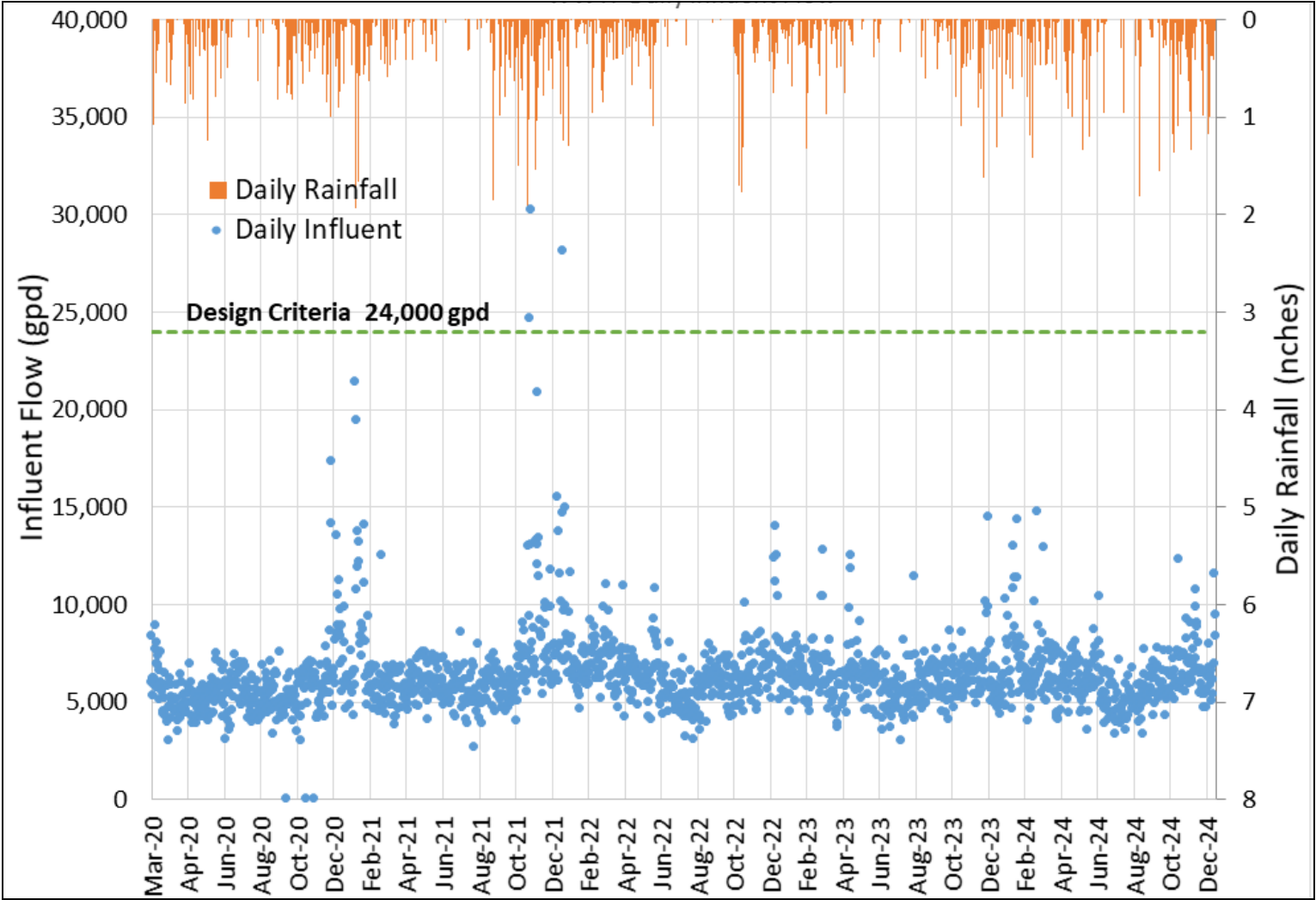


FIGURE 3-1

WWTF Daily Influent Flow

**TABLE 3-3****Summary of Discharge Monitoring Reports (DMRs) WWTF Influent and Effluent Monthly Averages**

| Year   | Influent                         |                                |                            |                            |               |               | Effluent                         |                                |                            |                            |               |               |
|--------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|
|        | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) |
| Mar-20 | 5,906                            | 8,892                          | 21                         | 1.70                       | 8             | 0.60          | 5,150                            | 8,240                          | 3                          | 0.13                       | 22            | 0.94          |
| Apr-20 | 4,913                            | 6,396                          | 13                         | 1.00                       | 18            | 1.40          | 4,043                            | 4,910                          | 2                          | 0.07                       | 8             | 0.27          |
| May-20 | 5,055                            | 6,960                          | 8                          | 0.60                       | 16            | 1.30          | 4,358                            | 5,600                          | 3                          | 0.11                       | 6             | 0.22          |
| Jun-20 | 5,556                            | 7,452                          | 16                         | 1.30                       | 44            | 3.50          | 4,785                            | 6,010                          | 2                          | 0.08                       | 12            | 0.48          |
| Jul-20 | 5,690                            | 7,428                          | 15                         | 0.75                       | 14            | 0.70          | 4,639                            | 6,010                          | 4                          | 0.15                       | 6             | 0.23          |
| Aug-20 | 5,197                            | 6,888                          | 6                          | 0.30                       | 13            | 0.66          | 4,354                            | 5,620                          | 1                          | 0.04                       | 6             | 0.22          |
| Sep-20 | 5,377                            | 7,524                          | 8                          | 0.30                       | 12            | 0.47          | 4,934                            | 7,490                          | 2                          | 0.08                       | 4             | 0.16          |
| Oct-20 | 5,068                            | 6,490                          | 25                         | 1.10                       | 21            | 0.90          | 4,952                            | 9,860                          | 2                          | 0.08                       | 5             | 0.21          |
| Nov-20 | 5,896                            | 7,104                          | 61                         | 3.17                       | 39            | 1.88          | 5,042                            | 11,030                         | 5                          | 0.21                       | 6             | 0.25          |
| Dec-20 | 6,774                            | 17,292                         | 15                         | 0.69                       | 8             | 0.37          | 6,450                            | 16,760                         | 3                          | 0.16                       | 5             | 0.27          |
| Jan-21 | 7,068                            | 11,184                         | 16                         | 0.95                       | 29            | 1.70          | 6,354                            | 17,020                         | 6                          | 0.32                       | 4             | 0.21          |
| Feb-21 | 9,393                            | 21,396                         | 20                         | 1.40                       | 11            | 0.77          | 8,685                            | 19,640                         | 3                          | 0.22                       | 2             | 0.14          |
| Mar-21 | 5,869                            | 12,492                         | 20                         | 0.85                       | 12            | 0.51          | 5,268                            | 9,600                          | 3                          | 0.13                       | 3             | 0.13          |
| Apr-21 | 5,473                            | 6,900                          | 15                         | 0.71                       | 28            | 1.32          | 4,730                            | 6,420                          | 4                          | 0.16                       | 3             | 0.12          |
| May-21 | 6,081                            | 7,542                          | 29                         | 1.30                       | 50            | 2.30          | 5,194                            | 6,400                          | 4                          | 0.17                       | 8             | 0.35          |
| Jun-21 | 6,125                            | 7,392                          | 19                         | 0.97                       | 90            | 4.60          | 4,911                            | 5,980                          | 4                          | 0.16                       | 15            | 0.61          |
| Jul-21 | 5,819                            | 8,532                          | 6                          | 0.29                       | 16            | 0.79          | 4,525                            | 5,380                          | 3                          | 0.11                       | 7             | 0.26          |
| Aug-21 | 5,313                            | 7,944                          | 26                         | 1.30                       | 17            | 0.90          | 4,858                            | 5,740                          | 5                          | 0.18                       | 2             | 0.08          |
| Sep-21 | 5,977                            | 7,452                          | 23                         | 1.20                       | 15            | 0.79          | 5,568                            | 7,510                          | 5                          | 0.23                       | 3             | 0.14          |
| Oct-21 | 5,748                            | 7,872                          | 23                         | 1.10                       | 13            | 0.60          | 5,615                            | 7,700                          | 2                          | 0.09                       | 20            | 0.94          |
| Nov-21 | 10,180                           | 30,228                         | 32                         | 1.92                       | 10            | 0.60          | 9,479                            | 36,869                         | 2                          | 0.16                       | 3             | 0.24          |
| Dec-21 | 7,94                             | 15,456                         | 19                         | 0.95                       | 12            | 0.60          | 7,917                            | 18,830                         | 6                          | 0.40                       | 4             | 0.26          |
| Jan-22 | 9,177                            | 28,080                         | 48                         | 2.84                       | 23            | 1.52          | 8,478                            | 26,250                         | 4                          | 0.28                       | 5             | 0.35          |
| Feb-22 | 6,647                            | 9,180                          | 14                         | 0.77                       | 9             | 0.50          | 5,312                            | 8,000                          | 2                          | 0.09                       | 4             | 0.18          |
| Mar-22 | 7,516                            | 11,004                         | 12                         | 0.72                       | 6             | 0.36          | 6,106                            | 9,020                          | 2                          | 0.10                       | 3             | 0.15          |

TABLE 3-3 – (continued)

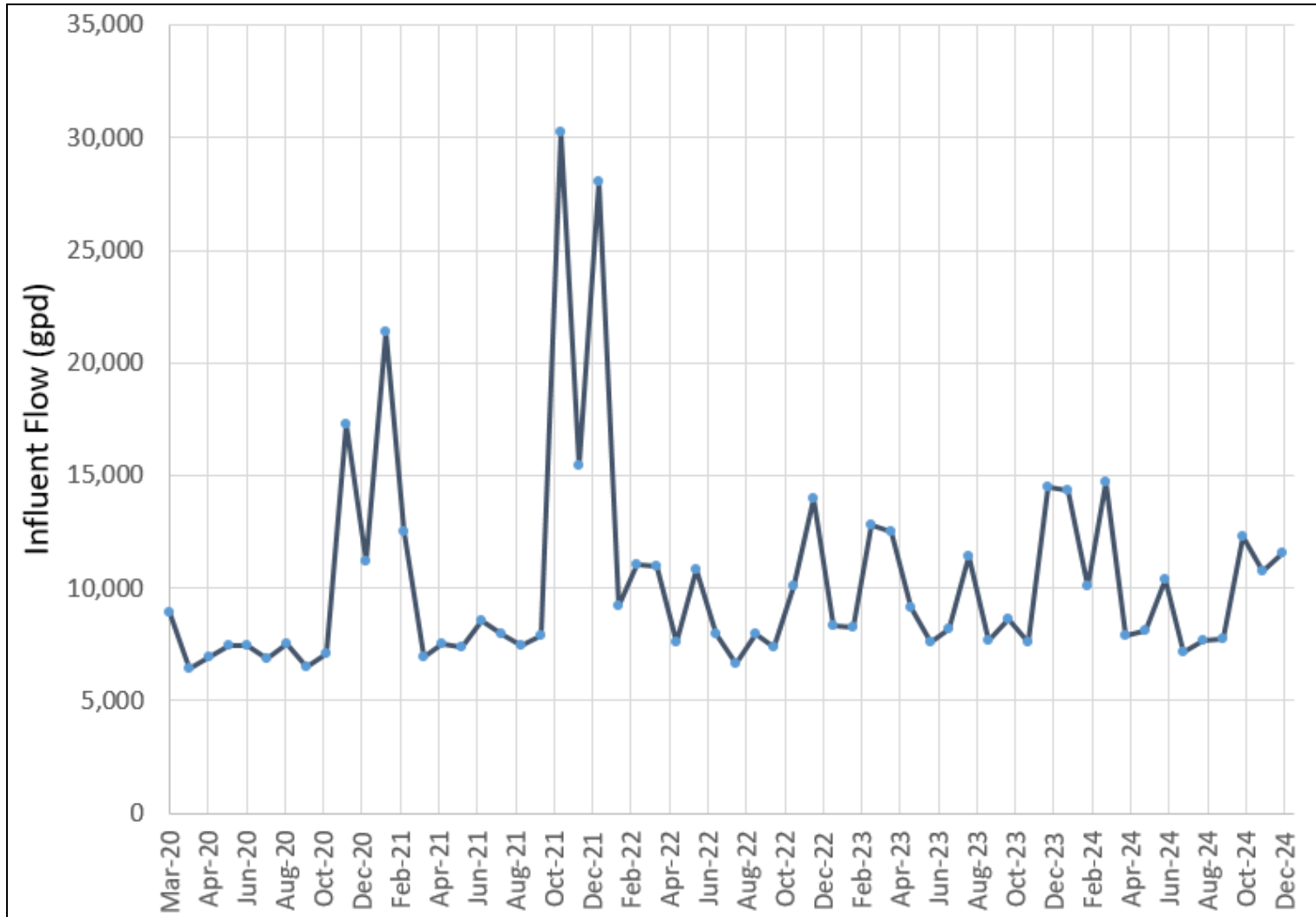
## Summary of Discharge Monitoring Reports (DMRs) WWTF Influent and Effluent Monthly Averages

| Year   | Influent                         |                                |                            |                            |               |               | Effluent                         |                                |                            |                            |               |               |
|--------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|
|        | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) |
| Apr-22 | 6,593                            | 10,944                         | 16                         | 0.70                       | 13            | 0.57          | 5,274                            | 7,970                          | 3                          | 0.13                       | 3             | 0.13          |
| May-22 | 6,150                            | 7,608                          | 18                         | 0.81                       | 44            | 1.97          | 6,357                            | 10,360                         | 6                          | 0.32                       | 11            | 0.58          |
| Jun-22 | 6,593                            | 10,836                         | 25                         | 1.38                       | 30            | 1.59          | 5,734                            | 10,370                         | 5                          | 0.24                       | 7             | 0.35          |
| Jul-22 | 5,374                            | 7,992                          | 91                         | 4.40                       | 40            | 1.90          | 4,706                            | 6,790                          | 3                          | 0.12                       | 15            | 0.59          |
| Aug-22 | 4,999                            | 6,612                          | 123                        | 4.70                       | 56            | 2.10          | 4,342                            | 5,620                          | 4                          | 0.13                       | 8             | 0.29          |
| Sep-22 | 6,246                            | 7,956                          | 86                         | 4.20                       | 59            | 2.90          | 5,399                            | 6,640                          | 4                          | 0.17                       | 13            | 0.59          |
| Oct-22 | 5,810                            | 7,356                          | 49                         | 2.40                       | 29            | 1.50          | 4,979                            | 6,220                          | 4                          | 0.18                       | 6             | 0.25          |
| Nov-22 | 6,419                            | 10,056                         | 30                         | 1.13                       | 32            | 1.09          | 5,385                            | 8,250                          | 4                          | 0.18                       | 5             | 0.22          |
| Dec-22 | 7,809                            | 13,992                         | 41                         | 2.10                       | 43            | 2.20          | 6,630                            | 12,300                         | 10                         | 0.55                       | 7             | 0.39          |
| Jan-23 | 6,535                            | 8,364                          | 57                         | 2.70                       | 19            | 0.88          | 5,432                            | 7,100                          | 3.3                        | 0.15                       | 3             | 0.14          |
| Feb-23 | 6,462                            | 8,232                          | 42                         | 2.40                       | 36            | 2.10          | 5,643                            | 7,480                          | 3.1                        | 0.15                       | 4             | 0.19          |
| Mar-23 | 6,869                            | 12,804                         | 63                         | 3.60                       | 24            | 1.40          | 5,720                            | 12,070                         | 2.9                        | 0.14                       | 3             | 0.14          |
| Apr-23 | 6,248                            | 12,516                         | 53                         | 2.86                       | 26            | 1.40          | 4,767                            | 6,150                          | 12                         | 0.48                       | 4             | 0.16          |
| May-23 | 6,391                            | 9,132                          | 64                         | 4.20                       | 29            | 1.90          | 5,187                            | 6,430                          | 5.7                        | 0.25                       | 7             | 0.30          |
| Jun-23 | 5,920                            | 7,620                          | 140                        | 6.80                       | 94            | 4.60          | 5,028                            | 6,110                          | 17.4                       | 0.73                       | 15            | 0.63          |
| Jul-23 | 5,337                            | 8,184                          | 12                         | 0.49                       | 26            | 1.00          | 4,241                            | 6,080                          | 2                          | 0.07                       | 11            | 0.39          |
| Aug-23 | 5,846                            | 11,412                         | 138                        | 6.50                       | 52            | 2.50          | 4,781                            | 6,220                          | 4.7                        | 0.19                       | 48            | 1.91          |
| Sep-23 | 6,210                            | 7,704                          | 15                         | 0.87                       | 72            | 4.20          | 5,408                            | 6,660                          | 3                          | 0.14                       | 14            | 0.63          |
| Oct-23 | 6,235                            | 8,640                          | 20                         | 0.98                       | 39            | 1.90          | 5,270                            | 7,610                          | 5.7                        | 0.25                       | 22            | 0.97          |
| Nov-23 | 6,210                            | 7,560                          | 18                         | 0.77                       | 15            | 0.64          | 5,213                            | 6,740                          | 1                          | 0.04                       | 4             | 0.17          |
| Dec-23 | 6,784                            | 14,472                         | 85                         | 7.20                       | 15            | 0.84          | 5,762                            | 12,200                         | 17                         | 0.82                       | 4             | 0.19          |
| Jan-24 | 7,512                            | 14,304                         | 24                         | 1.25                       | 16            | 0.85          | 6,664                            | 12,280                         | 2.1                        | 0.12                       | 9             | 0.50          |
| Feb-24 | 6,382                            | 10,116                         | 283                        | 17.40                      | 63            | 3.90          | 5,585                            | 8,860                          | 5.3                        | 0.25                       | 8             | 0.37          |
| Mar-24 | 7,191                            | 14,724                         | 36                         | 2.30                       | 16            | 1.00          | 6,355                            | 15,180                         | 1.7                        | 0.09                       | 5             | 0.27          |
| Apr-24 | 6,081                            | 7,860                          | 12                         | 0.42                       | 19            | 0.68          | 5,181                            | 7,210                          | 2.5                        | 0.11                       | 3             | 0.13          |

TABLE 3-3 – (continued)

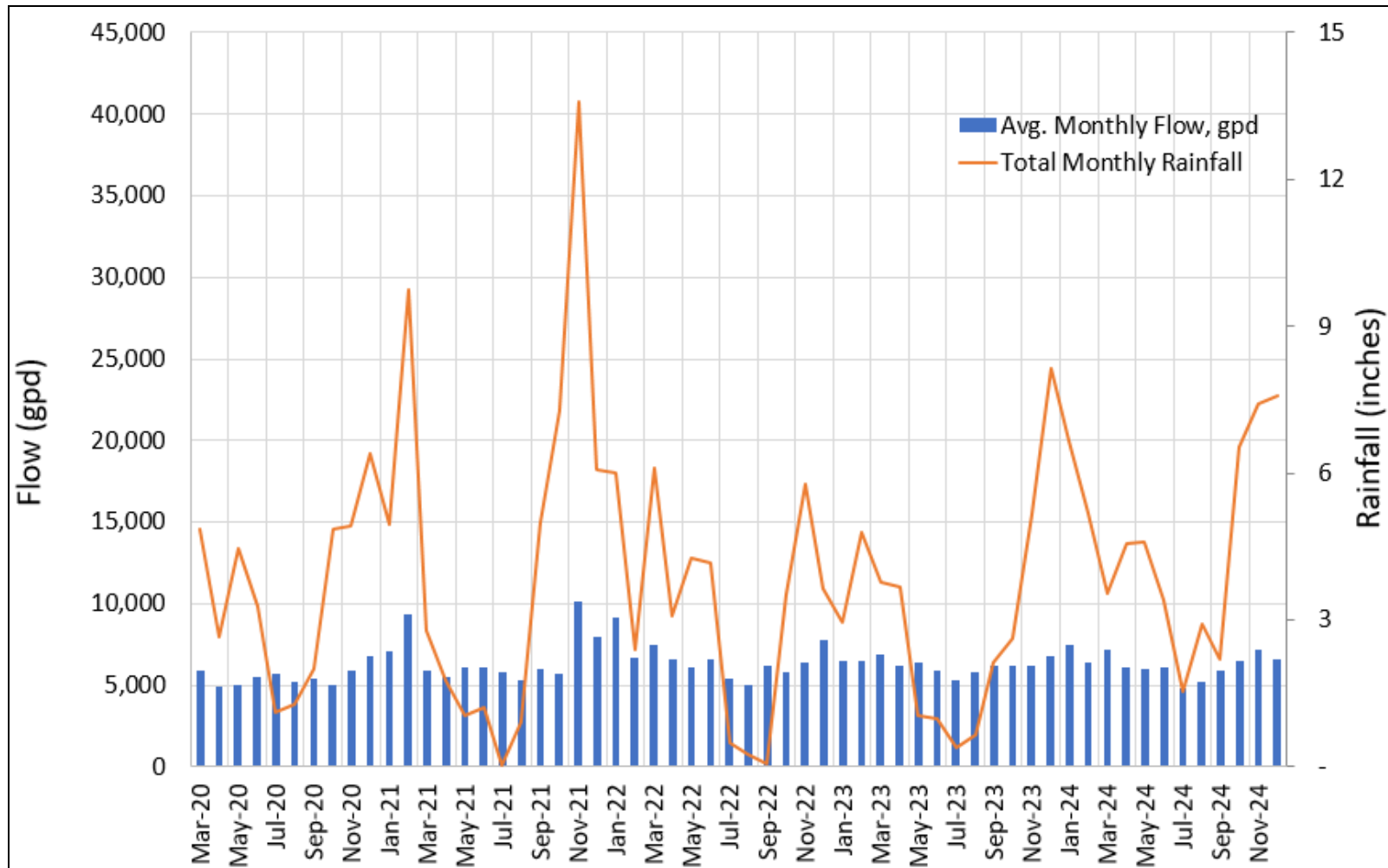
## Summary of Discharge Monitoring Reports (DMRs) WWTF Influent and Effluent Monthly Averages

| Year           | Influent                         |                                |                            |                            |               |               | Effluent                         |                                |                            |                            |               |               |
|----------------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|----------------------------------|--------------------------------|----------------------------|----------------------------|---------------|---------------|
|                | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) | Avg.<br>Monthly<br>Flow<br>(gpd) | Max.<br>Daily<br>Flow<br>(gpd) | BOD <sub>5</sub><br>(mg/L) | BOD <sub>5</sub><br>(lb/d) | TSS<br>(mg/L) | TSS<br>(lb/d) |
| May-24         | 5,993                            | 8,112                          | 23                         | 1.55                       | 42            | 2.80          | 5,072                            | 6,290                          | 3.1                        | 0.13                       | 18            | 0.76          |
| Jun-24         | 6,152                            | 10,416                         | 26                         | 1.87                       | 77            | 5.20          | 5,175                            | 8,030                          | 2.6                        | 0.11                       | 13            | 0.56          |
| Jul-24         | 4,823                            | 7,152                          | 14                         | 0.75                       | 27            | 1.44          | 4,400                            | 6,930                          | 4.6                        | 0.17                       | 15            | 0.55          |
| Aug-24         | 5,183                            | 7,656                          | 11                         | 0.41                       | 14            | 0.54          | 4,260                            | 6,140                          | 2.1                        | 0.07                       | 6             | 0.21          |
| Sep-24         | 5,883                            | 7,764                          | 11                         | 0.62                       | 21            | 1.17          | 4,934                            | 5,690                          | 1.2                        | 0.05                       | 11            | 0.45          |
| Oct-24         | 6,539                            | 12,280                         | 5                          | 0.26                       | 23            | 1.25          | 5,369                            | 11,220                         | 1.2                        | 0.05                       | 9             | 0.40          |
| Nov-24         | 7,211                            | 10,728                         | 9                          | 0.51                       | 13            | 0.78          | 6,509                            | 10,210                         | 2.5                        | 0.14                       | 11            | 0.60          |
| Dec-24         | 6,632                            | 11,580                         | 5                          | 0.18                       | 10            | 0.39          | 6,214                            | 10,420                         | 1.3                        | 0.07                       | 0.19          | 0.01          |
| <b>Average</b> | <b>6,317</b>                     | <b>10,306</b>                  | <b>36</b>                  | <b>2.02</b>                | <b>29</b>     | <b>1.53</b>   | <b>5,495</b>                     | <b>9,409</b>                   | <b>4</b>                   | <b>0.18</b>                | <b>8</b>      | <b>0.37</b>   |
| <b>Maximum</b> | <b>10,180</b>                    | <b>30,228</b>                  | <b>283</b>                 | <b>17.40</b>               | <b>94</b>     | <b>5.20</b>   | <b>9,479</b>                     | <b>36,869</b>                  | <b>17</b>                  | <b>0.82</b>                | <b>48</b>     | <b>1.91</b>   |
| <b>Minimum</b> | <b>4,823</b>                     | <b>6,396</b>                   | <b>5</b>                   | <b>0.18</b>                | <b>6</b>      | <b>0.36</b>   | <b>4,043</b>                     | <b>4,910</b>                   | <b>1</b>                   | <b>0.04</b>                | <b>0</b>      | <b>0.01</b>   |



**FIGURE 3-2**

**WWTF Monthly Maximum Daily Influent Flow**



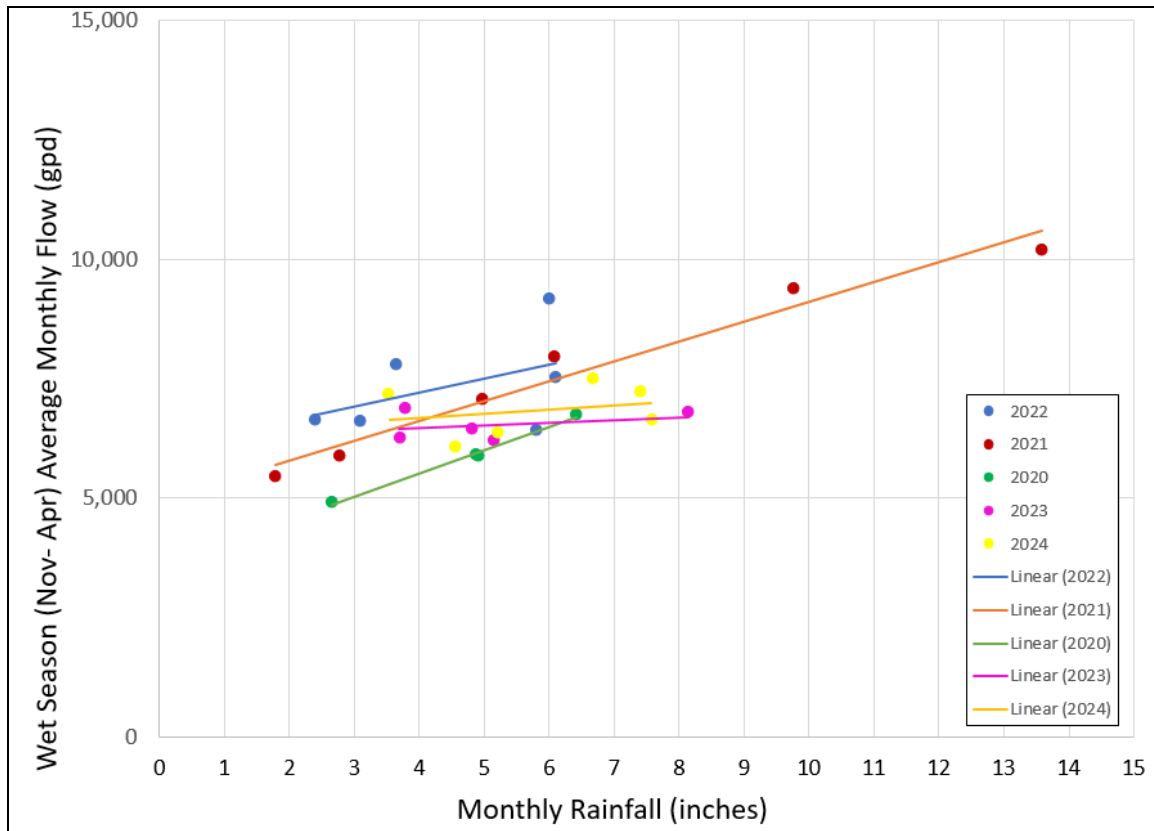
**FIGURE 3-3**

**WWTF Monthly Average Influent Flow**

## INFILTRATION AND INFLOW (I/I)

Figure 3-4 shows average monthly influent flows from 2020 through 2024 as a function of total monthly rainfall during the wet season months of November through April.

The increase of the extrapolated y- intercept value, which represents the “no rain” day flow, from 2020 to 2024, suggests that base flow and perhaps dry weather infiltration have increased over the period. The flatter slopes of the linear regression lines in 2023 and 2024 indicate the influent flow is apparently less dependent on precipitation which suggests that I/I have been reduced recently in the collection system.



**FIGURE 3-4**

**WWTF Monthly Influent Flow as a Function  
of Monthly Rainfall during Wet Season**

## EFFECT OF TIDES ON WASTEWATER FLOWS

An evaluation of the impact on tides on wastewater collection flows was completed for this plan, as the District has indicated that tidal water could be entering the wastewater collection system and contributing to I/I. One of the methods used in making this assessment was to compare flows against the tide depth near Samish Bay. This was done during the dry weather period to see if increased flow coincided with high tides, while excluding the influence of rainfall. Figure 3-5 and 3-6 show the dry weather wastewater flows plotted against tide levels during the dry weather period in years 2023 through 2024.

Salinity in the influent was measured to assess the impact of the tide water on the wastewater. An influent sample collected on January 11, 2022, was measured. A salinity of 0.78 PSS (Practical Salinity Scale) was measured, which is much lower than the average sea surface salinity of about 35 PSS, indicating a relatively minor impact from the tide intrusion. However, on January 11, 2022, there was only moderate tide, precipitation and wastewater influent flow, so it is not clear based on the available sampling data whether there is tidal water impact under extreme high tide conditions.

Based on the evaluation, it is concluded that tides have only a minor direct impact on wastewater flows. However, it is possible that tide levels have some influence on wastewater flows; high tides that occur during peak precipitation periods of major storms, causing backups at storm water outfalls, can exacerbate flooding and increase the probability of I/I in the sewage collection system. Figure 3-7 shows influent from 2020 through 2024 as a function of high tide. It was found that the highest flow days usually coincided with both high tide and high precipitation. All the influent flows, exceeding the plant capacity of 24,000 gpd, occurred when the tide level is above 8.5 feet.

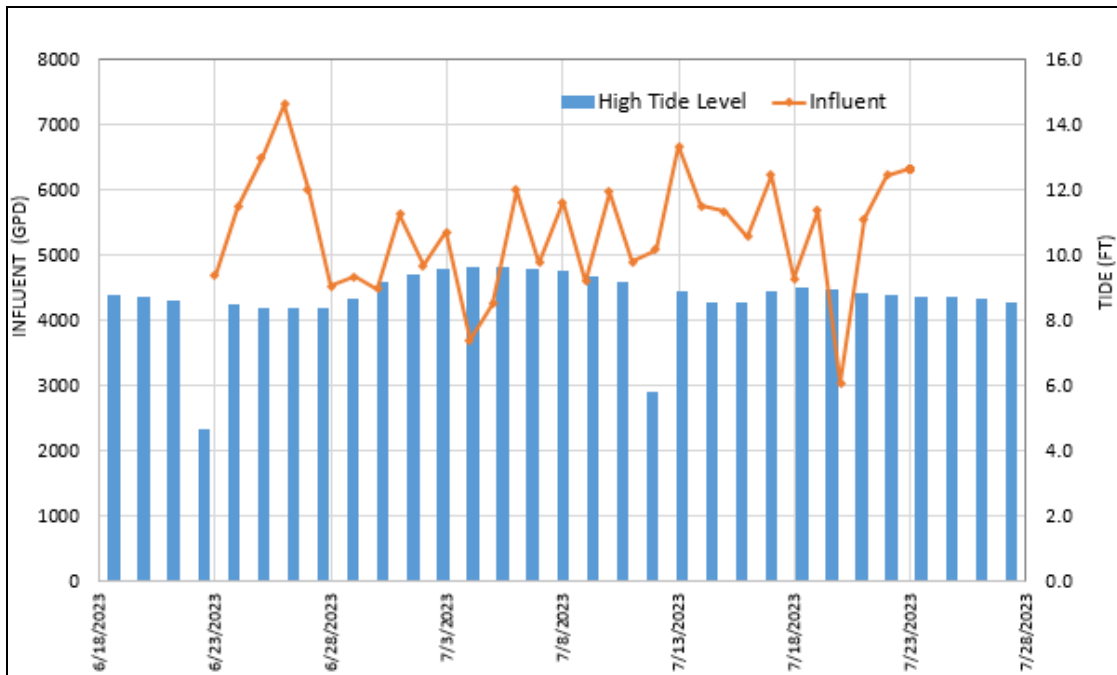


FIGURE 3-5

### Tide vs. Flow During Dry Weather Period in 2023

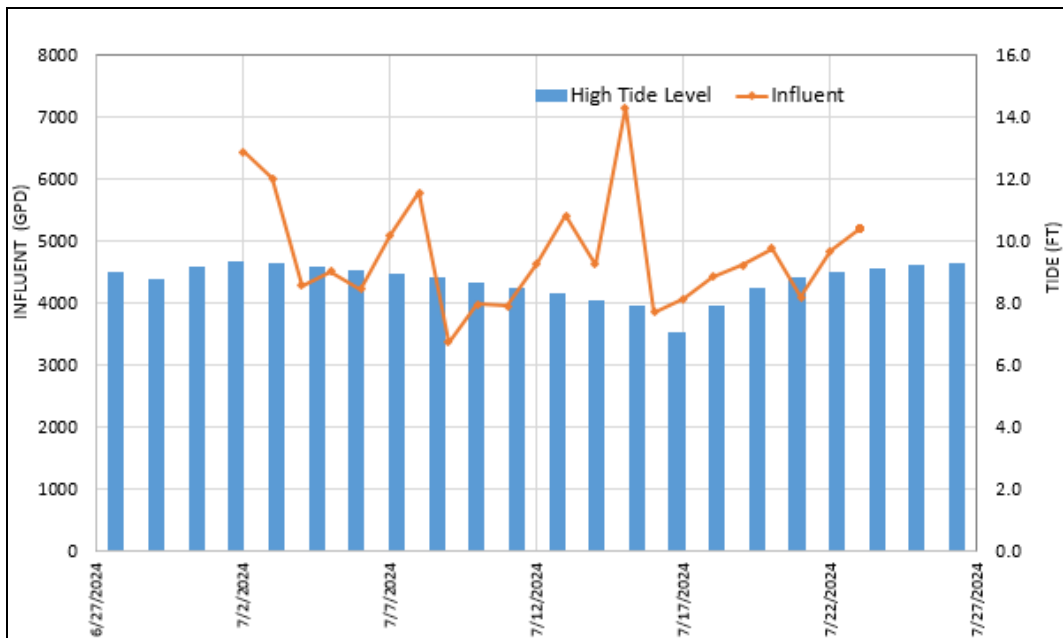
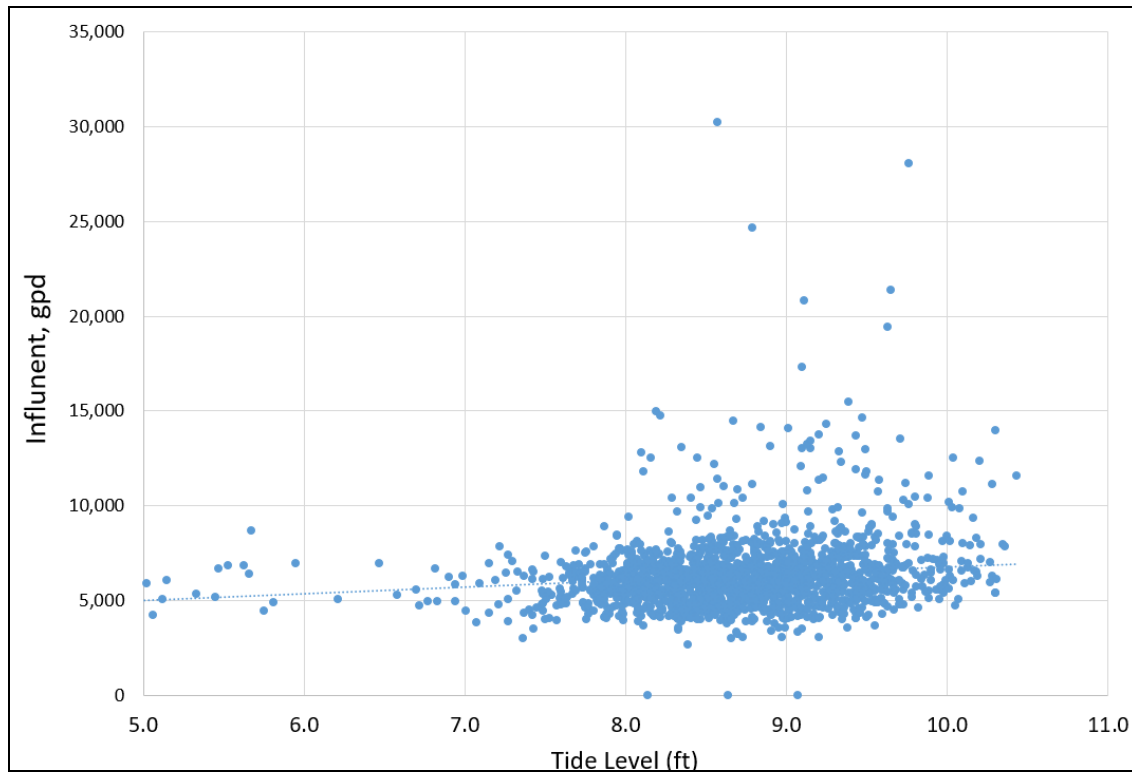


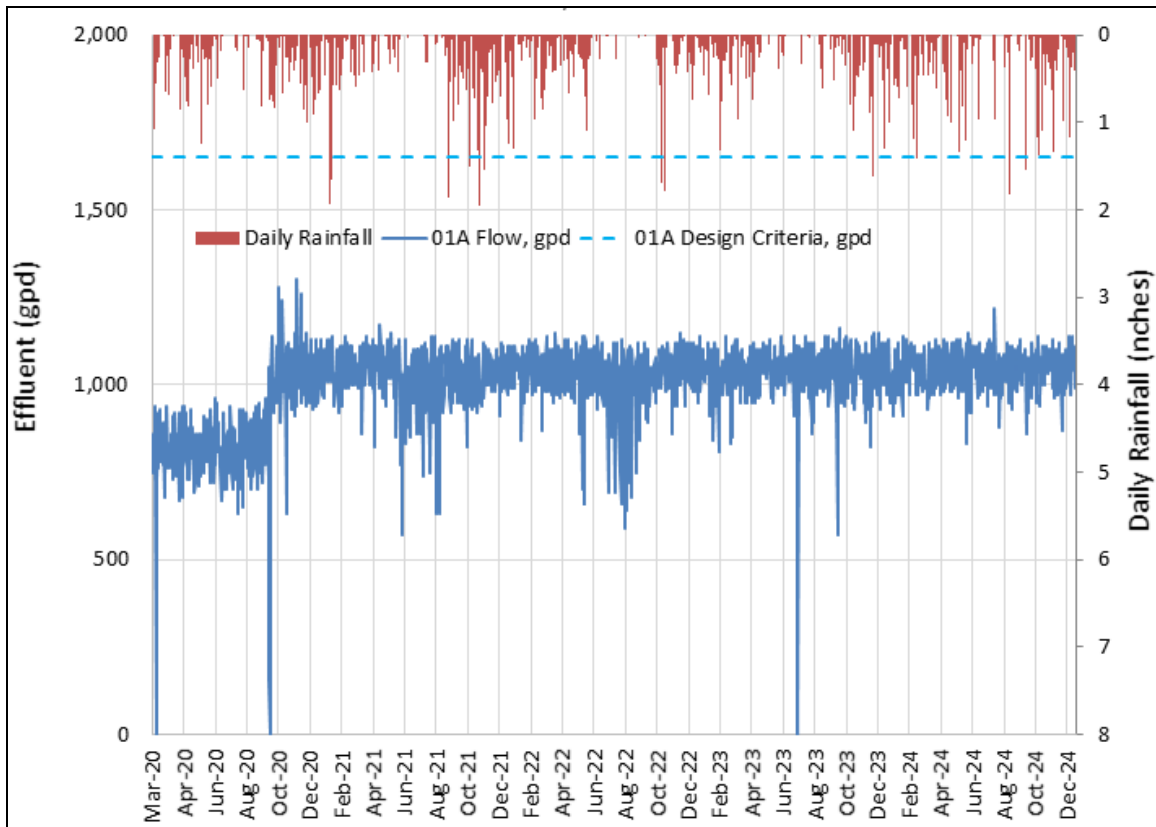
FIGURE 3-6

### Tide vs. Flow During Dry Weather Period in 2024

**FIGURE 3-7****WWTF Influent Flow as a Function of Tide****EFFLUENT WASTEWATER FLOWS**

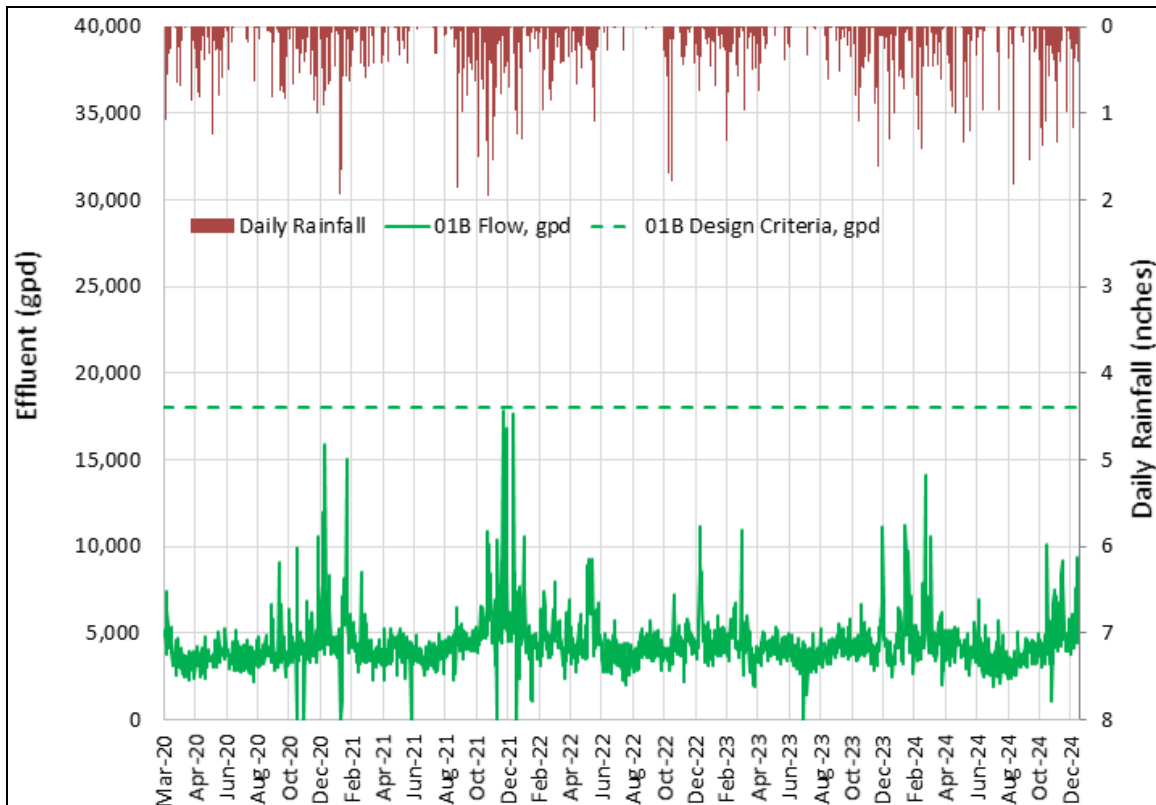
As shown in Figures 3-8 through 3-10, the discharges to Drainfields 1 and 2 have been in compliance with permit limits between 2020 and 2024.

The Emergency Upflow Trench was utilized 27 times from March 2020 to December 2024, for emergency situations, which were mostly in the wet weather season (one time in September 2020, two times in December 2020, two times in January 2021, and seven times in February 2021, eight times in November 2021, one time in December 2021, four times in January 2022, two times in December 2022). Among those situations, the Upflow Trench discharge limit of 1,846 gpd was exceeded 24 times. Diversions to the Emergency Upflow Trench were not required in 2023 or 2024.



**FIGURE 3-8**

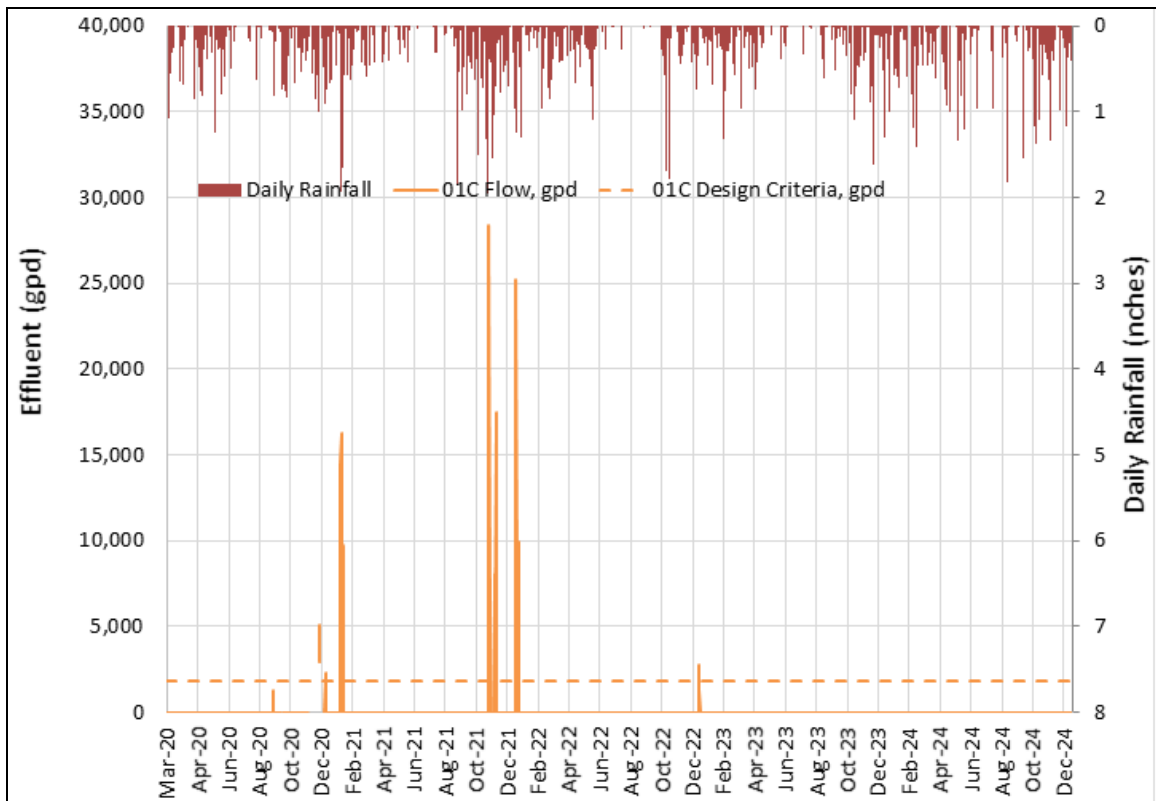
**Effluent Flow to Drainfield 1**



**FIGURE 3-9**

**Effluent Flow to Drainfield 2**

The Drainfield 2 inlet valve is closed during the utilization of the Emergency Upflow Trench.



**FIGURE 3-10**

### **Effluent Flow to Emergency Upflow Trench**

#### **EFFLUENT BOD AND TSS**

As shown in Figure 3-11, effluent BOD and TSS concentrations have been mostly compliant with permit limits over the 5 years of record from 2020 through 2024, except one exceedance of TSS limit on 8/2/2023, which was likely caused by randomly rising sludge/denitrification occurring in the settling tank, according to the facility operator.

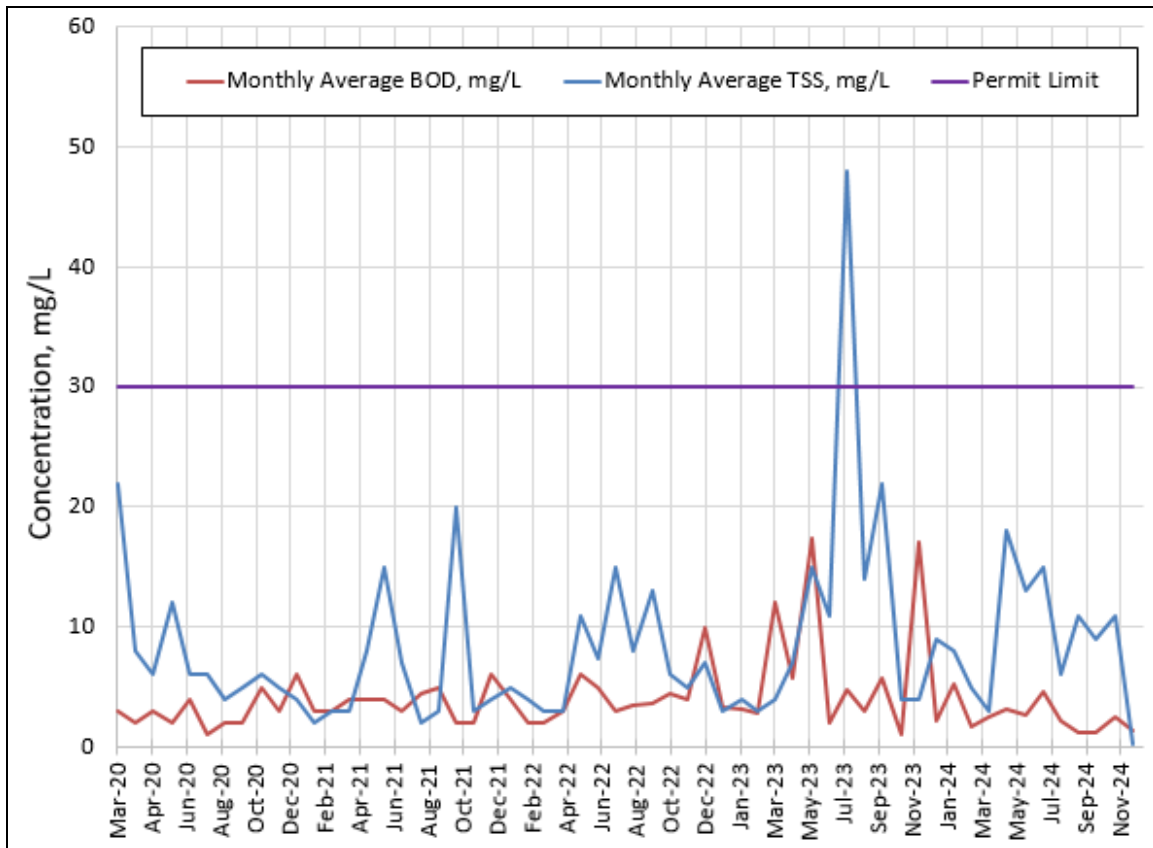
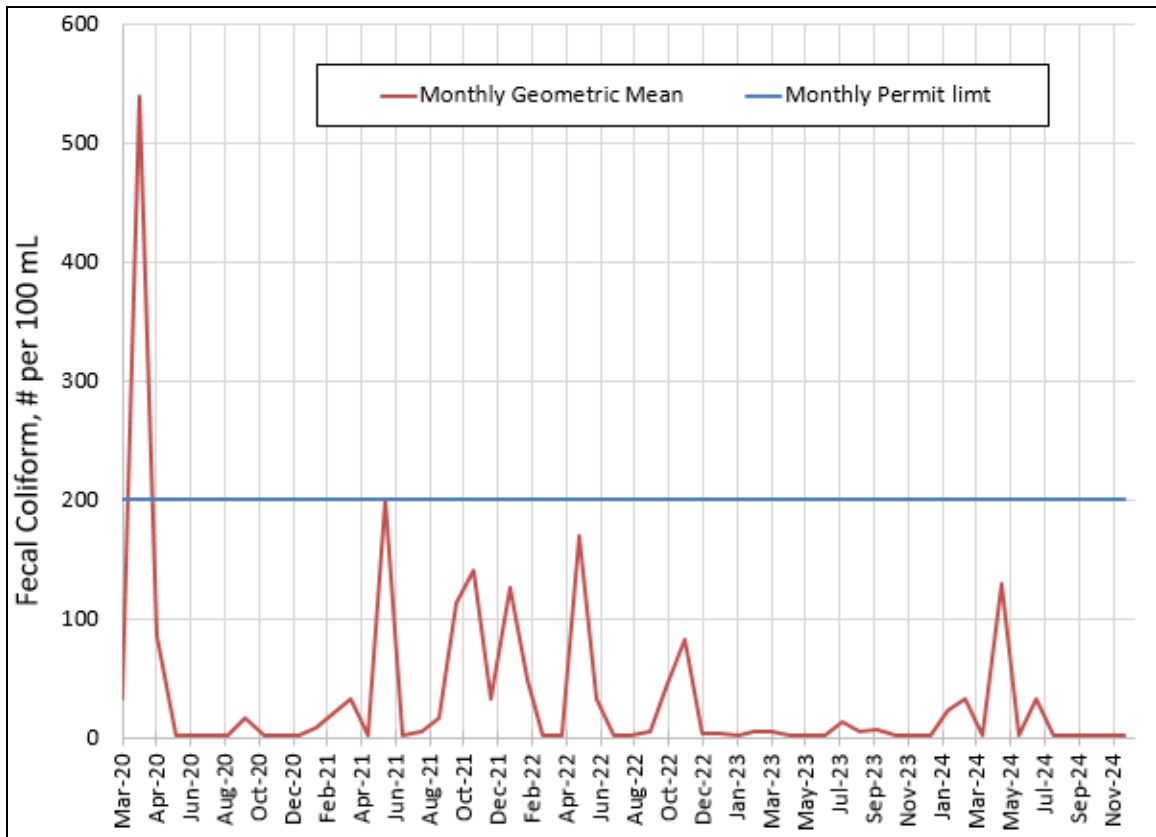


FIGURE 3-11

### Monthly Average Effluent Concentrations

#### FECAL COLIFORM

The permit limits for fecal coliform bacteria are 200 per 100 ml on a monthly average basis. Effluent records for 2020 through 2024 are shown in Figure 3-12. The existing UV disinfection system, a Trojan PTP in-channel package system, was installed in 1996. The facility has been in compliance with the permit limits, except in April 2020. However, effluent fecal coliform levels have frequently approached the permit limits, and the system is approaching the end of its useful life. The cause of the permit violation in April 2020 is unknown.



**FIGURE 3-12**

### **Effluent Fecal Coliform History – Monthly Geometric Means**

## **OVERALL TREATMENT FACILITY PERFORMANCE**

Table 3-4 summarizes effluent data for four main performance parameters for the WWTF: BOD, TSS, Fecal Coliform, and pH.

**TABLE 3-4****Monthly Effluent Concentration Data**

| <b>Description</b>        | <b>BOD<br/>(mg/L)</b> | <b>TSS<br/>(mg/L)</b> | <b>Fecal Coliform<br/>(#/100 ml)<sup>(1)</sup></b> | <b>pH</b> |
|---------------------------|-----------------------|-----------------------|----------------------------------------------------|-----------|
| Permit Requirement        | 30                    | 30                    | 200                                                | 6.0 – 9.0 |
| Average                   | 3.5                   | 7.1                   | 51.9                                               | 6.5       |
| Minimum                   | 1.0                   | 2.0                   | 1.8                                                | 5.7       |
| Maximum                   | 9.9                   | 22.0                  | 540                                                | 7.3       |
| 2020 Average and pH Range | 2.7                   | 8.0                   | 61.8                                               | 5.7 – 7.1 |
| 2021 Average and pH Range | 3.9                   | 6.2                   | 52.1                                               | 6.4 – 7.3 |
| 2022 Average and pH Range | 3.8                   | 7.3                   | 43.5                                               | 6.1 – 7.0 |
| 2023 Average and pH Range | 6.5                   | 11.6                  | 4.1                                                | 6.1 – 6.9 |
| 2024 Average and pH Range | 2.5                   | 9.0                   | 19.5                                               | 6.1 – 6.7 |

(1) Annual fecal coliform values are the average of the monthly geometric mean data.

**UV DISINFECTION DESIGN FLOWS**

An analysis of the flows to the WWTF using average data for the period from January 2023 through December 2024 was undertaken. This time period was selected for the design flows for an upgraded UV disinfection system because they will incorporate flows resulting from the I/I reduction measures described at the beginning of this section. This analysis yielded the flows shown in Table 3-5.

**TABLE 3-5****2023 – 2024 Influent Flows and New UV Disinfection Design Flows**

|                     | <b>2023 – 2024 Influent Flows</b>       |                                    |                                     |                              |                               |
|---------------------|-----------------------------------------|------------------------------------|-------------------------------------|------------------------------|-------------------------------|
|                     | <b>Average Dry<br/>Weather<br/>Flow</b> | <b>Annual<br/>Average<br/>Flow</b> | <b>Maximum<br/>Monthly<br/>Flow</b> | <b>Peak<br/>Day<br/>Flow</b> | <b>Peak<br/>Hour<br/>Flow</b> |
| WWTF Influent (gpd) | 5,547                                   | 6,276                              | 7,191                               | 14,598                       | 25,733                        |
| I/I (gpd)           | -                                       | 729                                | 1,654                               | 9,051                        | 20,186                        |
| I/I (percent)       | -                                       | 12                                 | 23                                  | 62                           | 78                            |

As can be seen by comparing Table 3-1 and Table 3-5, the I/I reduction measures implemented over the last 2 years have resulted in a reduction in the I/I and corresponding WWTF influent flows.

It should be noted that, based on communication with Trojan, the manufacturer of the existing UV disinfection system, the existing system has a capacity of 70,000 gpd, which far exceeds the future design flows developed in this report. The next chapter recommends replacing this system in-kind. Therefore, it is proposed to define the UV

disinfection system peak hour design flow to be 40,000 gpd. This should accommodate any unanticipated future growths within the service area.

## EFFLUENT UV TRANSMITTANCE

UV transmittance would indicate the efficiency of the UV light to penetrate the effluent. Several UV transmittance measurements were taken recently of the Edison WWTF effluent. The results are shown in Table 3-6.

**TABLE 3-6**

### **Edison WWTF Effluent UV Transmittance**

| <b>Date</b>   | <b>Time</b> | <b>Flow (gpd)</b> | <b>UVT (%)</b>      |
|---------------|-------------|-------------------|---------------------|
| May 19, 2025  | 5:00 p.m.   | 5,952             | 56.3                |
| May 22, 2025  | 7:00 a.m.   | 6,072             | 60                  |
| May 25, 2025  | Noon        | 5,088             | 51.3                |
| May 29, 2025  | 5:00 p.m.   | 5,136             | 50.1                |
| June 17, 2025 | Noon        | (Not Noted)       | 49.5 <sup>(1)</sup> |

- (1) Duplicate measurements were 49 percent and 50 percent Duplicate measurement precision (2 percent) meets quality assurance criterion of <5 percent relative percent difference (RPD) noted in the Quality Assurance Plan.

Based on this data, a UV transmittance of 50 percent will be used to design the new UV disinfection system at the Edison WWTF. The effluent TSS concentrations shown on Figure 3-11 indicate that the TSS concentrations are usually the highest during the Spring and Summer. Using transmittance data for May/June for design should therefore provide a conservative design for year-around performance.

## REGULATORY FECAL COLIFORM EFFLUENT LIMITS

The effluent limits for fecal coliform bacteria are established by the State Waste Discharge Permit No. ST0045515 issued by the State of Washington Department of Ecology. The limits are a monthly geometric mean of 200 organisms per 100 ml.

## **CHAPTER 4**

### **PROPOSED UV DISINFECTION SYSTEM REPLACEMENT**

The existing UV disinfection system is Model UV 3075K PTP as manufactured by Trojan Technologies. The manufacturer was contacted, and has confirmed that this system will be capable of producing an effluent within the regulatory fecal coliform effluent limits at a 50 percent UV transmittance up to a flow of 70,000 gpd (see email from Wm. H. Reilly Co. dated July 16, 2025 in the appendix). Therefore, if the existing UV disinfection system is replaced in-kind, it will be more than adequate to provide reliable disinfection in the foreseeable future.

The existing UV disinfection system is a package system consisting of UV disinfection modules mounted in a stainless steel channel. The modules are supported by brackets and the disinfected effluent flows over a stainless steel weir for level control in the channel.

The stainless steel channel was cast into a cast-in-place concrete structure in the original installation. The UV module support brackets and effluent weir are welded to the stainless steel channel. Thus, if a total replacement of the existing system were implemented, the entire concrete structure would have to be replaced.

Trojan Technologies, however, has indicated that only the UV modules, including all the electronic and electrical equipment, could be replaced and mounted into the existing channel and support brackets as long as the existing support brackets are structurally sound. The brackets and effluent weir were inspected by Edison WWTF operations staff on August 26, 2025, and were found to be in sound condition. It is, therefore, recommended that the existing modules be replaced in the existing channel and support brackets, and the existing electronics be replaced with new electronics, including an updated monitoring system tracking lamp age and UV intensity, in the same location as the existing electronics. The ballasts for the new system are located in the modules. They were located in a cabinet, adjacent to the UV disinfection channel in the existing system.

A copy of Trojan's proposal and draft specifications are included in Appendix A.

The electrical work will consist of demolishing the existing electrical equipment which includes a lamp ballast box, and a receptacle stand. Power wiring from the operations building located approximately 75 feet to the north of the site will be reused. A new wall monitoring unit, and power distribution center, including receptacles, will be installed in weatherproof enclosures. Due to the existing record drawings not adequately documenting the power source, a field audit was conducted by an electrician to confirm the power source is the panelboard LBX, with a single circuit breaker. A 30-day load study was performed to confirm that the electrical capacity of the circuit breaker, the panelboard, and the electrical feed to the site are not exceeded.

As a result of these investigations, it was determined that an upgrade of the electrical system was necessary for the UV system to be in compliance with current electrical codes. Per this analysis, the 250A panelboard LXB needs a larger main circuit breaker and the ampacity of the feeders to the panelboard need to be increased. It was also discovered that panelboard LB does not appear to have a branch circuit breaker protecting the feeder to the ATS, and so it was recommended to install a circuit breaker in it to protect the feeder.

The recommended improvement is to replace the existing panelboard LXB main 100A circuit breaker with 150A. The panelboard would now have about 17 percent additional capacity. Install one 150A branch circuit breaker in panelboard LB. Replace 100A with 150A feeder between panelboard LB and the ATS. Replace 100A with 150A feeder between generator disconnect and the ATS. Replace 100A with 150A feeder between the ATS and panelboard LXB.

## CHAPTER 5

### PERMITTING

As currently conceived, the project involves no or de minimus ground-disturbing work, as it is anticipated that the new UV system (an in-kind replacement) will be installed in the existing channel, and the control panel replaced near its existing location – essentially a maintenance activity. Based on this, the project is likely exempt from Cultural Resource, Shorelines, and SEPA requirements. This will be discussed with the relevant agencies for confirmation. Table 5-1 summarizes the status of permitting.

**TABLE 5-1**

**Current Status of State and County Permitting**

| <b>Permit Types</b>                                                                          | <b>Likely Needed?</b> | <b>Notes</b>                                                                                                                                        |
|----------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>State Permits and Applications</b>                                                        |                       |                                                                                                                                                     |
| State Environmental Policy Act (SEPA) or Declaration of Exemption                            | No                    | March 2026 (Exemption expected per WAC 197-11-800(3)).                                                                                              |
| Project Approval by WA Department of Ecology and Health                                      | Yes                   | Final Engineering Report to be submitted to the Departments of Ecology and Health in early May 2026. Plans and specifications submitted before bid. |
| Electrical Permit (L&I)                                                                      | Yes                   | Contractor to apply.                                                                                                                                |
| <b>County Permits and Applications</b>                                                       |                       |                                                                                                                                                     |
| Shoreline Conditional Use, and Shoreline Substantial Development or Declaration of Exemption | No                    | This is not in Shoreline jurisdiction and not subject to SCC 14.48.                                                                                 |
| Skagit County Flood Permitting                                                               | No                    | Likely Exempt unless modification/expansion of the UV channel is required.                                                                          |

## CHAPTER 6

### SCHEDULE

Because of the relatively low cost of this project and the fact that the project mostly constitutes replacement of equipment, it is proposed that the replacement UV disinfection equipment is procured directly from Trojan and the rest of the construction is awarded directly to a local electrical contractor off a small works roster.

Based on this proposed method of implementation, the proposed updated schedule is as follows:

- |   |                           |                                                                   |
|---|---------------------------|-------------------------------------------------------------------|
| • | October 2025–January 2026 | Electrical Field Verification and Load Study                      |
| • | November 2025             | Draft Engineering Report Issued                                   |
| • | November–January 2026     | Regulatory and Funding Agency Review of Engineering Report        |
| • | Mid May 2026              | Final Engineering Report Issued                                   |
| • | Late May 2026             | 90 Percent Plans/Specifications and PO for UV System Pre-Purchase |
| • | Late June 2026            | Issue PO for UV Pre-Purchase                                      |
| • | July 2026                 | Contract Signed with Installation Contractor                      |
| • | August 2026               | Electrical Submittals Received and Approved                       |
| • | Late August 2026          | UV System Delivery                                                |
| • | Late September 2026       | Construction Complete                                             |

The schedule assumes that the project proceeds without a bid, as authorized for construction projects under \$40,000.

## CHAPTER 7

### COST ESTIMATE

A construction cost estimate is provided in Table 7-1. The estimate assumes the project proceeds without a bid, as authorized for contracts under \$40,000, meeting the terms and conditions in the funding agreement and funding guidance, including federal Buy American-Build American and Davis Bacon requirements. The estimate was reduced based on feedback from the County who had solicited an estimate from a local contractor. It is understood that the local contractor did not have access to all the funding terms and conditions, nor the full electrical scope, so their estimate was increased to yield the amounts in Table 7-1. The estimate assumes that the project does not require temporary disinfection; it is assumed that influent wastewater can be stored during installation, and then disinfected once.

**TABLE 7-1**

**Edison WWTF UV System Replacement  
Estimated Construction and Pre-Procurement Costs**

| No.                                  | Description                                              | Quantity |    | Price    | Amount   |
|--------------------------------------|----------------------------------------------------------|----------|----|----------|----------|
| Construction                         |                                                          |          |    |          |          |
| 1                                    | Mobilization/Demobilization                              | 1        | LS | \$2,000  | \$2,000  |
| 2                                    | Demolition                                               | 1        | LS | \$1,000  | \$1,000  |
| 3                                    | Equipment Installation                                   | 1        | LS | \$5,000  | \$5,000  |
| 4                                    | Electrical Work                                          | 1        | LS | \$23,000 | \$23,000 |
| Subtotal                             |                                                          |          |    |          | \$31,000 |
| Contingencies (10%)                  |                                                          |          |    |          | \$3,100  |
| Subtotal                             |                                                          |          |    |          | \$34,100 |
| Washington State Sales Tax (8.6%)    |                                                          |          |    |          | \$2,900  |
| Total Estimated Construction Cost    |                                                          |          |    |          | \$37,000 |
| Pre-Procurement                      |                                                          |          |    |          |          |
| 1                                    | Ultraviolet Disinfection System (from Trojan)            | 1        | LS | \$2,000  | \$42,000 |
| 2                                    | Laboratory Ultraviolet Transmittance Meter (from UviTek) | 1        | LS | \$3,136  | \$3,136  |
| Subtotal                             |                                                          |          |    |          | \$45,136 |
| Washington State Sales Tax (8.6%)    |                                                          |          |    |          | \$3,900  |
| Total Estimated Pre-Procurement Cost |                                                          |          |    |          | \$49,036 |
| Project Total                        |                                                          |          |    |          | \$86,036 |

## **APPENDIX A**

### **PROPOSAL AND SPECIFICATIONS FROM TROJAN TECHNOLOGIES**



## Wm. H. Reilly & Co.

Project Name: Skagit County Edison WWTP UV replacement

Date: January 20, 2026

Model Number: **TrojanUV3000™PTP model 3075K**

Total Units Included: Replacement Components

Unit Configuration: Single Unit [ X ] In Series [ ] In Parallel [ ]

Design Criteria: Current Peak Design Flow: 40,000 gpd  
UV Transmission: 50% minimum  
Total Suspended Solids: <30 mg/l, 30 day average  
Max Mean Particle Size: 30 microns  
Disinfection Limit: 200 Fecal Coliform per 100 ml, based on a 30 day geometric mean of consecutive daily grab samples

We are pleased to submit the following scope of equipment supply based on the above criteria. The equipment described herein is named as the basis for the design.

**The purchaser is responsible for reading all information contained in this Supply Contract. Trojan / Representative will not be held accountable for the supply of equipment not specifically detailed in this document. Detailed installation instructions are provided with the shop drawings and are available upon request. Changes to the Scope of Supply that affect selling price will be handled through a change order.**

### **ULTRAVIOLET MODULES** – By Trojan

Each UV module will be supplied completely assembled containing lamps, quartz sleeves and electronic ballasts. Each module will be supplied with a 10 foot (3.0 m) weather-proof cable and standard 120 Volt plug for connection to a GFI receptacle.

Quantity: Three (3) UV modules will be supplied each containing lamps  
Material of Construction: 316 stainless steel frame  
Enclosure Rating: Type 6P

### **MONITORING SYSTEM** – By Trojan

One (1) Type 4X fiberglass Monitoring Panel(s) will be supplied per Unit for monitoring system parameters, including lamp age and UV intensity. The monitoring system includes a submersible UV sensor, mounted on one module, to measure UV intensity in mW/cm<sup>2</sup>.

***Installation Contractor's Responsibility:***

The Installation Contractor to be responsible for wall mounting the Monitoring Panel as shown on the layout drawings. The Installation Contractor to be responsible for the supply, installation and connection of the following at each Monitoring Panel:

One (1) 120 Volt, 1 phase, 2 wire (plus ground), 50 / 60 Hz, 5 Amps power supply  
One (1) 4-20 mA for remote indication for UV intensity (required if UV intensity will be monitored remotely)  
One (1) dry contact for low UV intensity alarm (required if remote low UV intensity alarm is required)

**POWER DISTRIBUTION RECEPTACLES (PDRs)** – By Trojan

Type 3R, impact resistant thermoplastic duplex GFI PDRs will be provided to power the UV Modules.

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Quantity Supplied:  | Two (2) PDR(s) will be supplied (one PDR per 2 modules) |
| Total Current Draw: | 2.5 amps                                                |

**MAINTENANCE RACK** – By Trojan

One (1) Type 304 stainless steel maintenance rack(s) will be supplied to support modules during service or maintenance activities.

**ADDITIONAL NOTES**

Three (3) copies of submittal shop drawings will be provided 2-4 weeks after receipt of purchase order.  
Equipment delivery 6 - 8 weeks after release for fabrication (approved Shop Drawings).  
Three (3) copies of Standard O&M Manuals will be provided at time of equipment delivery.

**START-UP and TRAINING**

One (1) day UV System Start-up and Operator training will be provided by factory trained service personnel\*.

**WARRANTY**

Trojan Technologies warrants the UV equipment supplied for 12 months after substantial completion or 18 months after shipment, whichever comes first. UV lamps are warranted for 12,000 hours (non-prorated) or thirty-six (36) calendar months from shipment, which ever comes first.

Refer to attached Terms and Conditions for additional details.

**SELLING PRICE:** \$ 38,800-

**PAYMENT TERMS**

50% due upon submittal approval  
45% due upon shipment of equipment  
5% due after system start-up  
Net 30 Days or prior to system start-up, whichever comes first.  
F.O.B Factory; Freight paid to jobsite  
Selling price does not include any duties, tariffs, or taxes, which may be applicable.

**Please refer all inquiries to Trojans' Manufacturer Representative:**

Contact: Bill Reilly  
Company: Wm. H. Reilly & Co.  
Phone: 503-223-6197  
Email: [bill@whreilly.com](mailto:bill@whreilly.com)

# Wm. H. Reilly & Co. TERMS AND CONDITIONS of Sale

THIS CONTRACT FORM CONSISTS OF 3 Sheets. Sheet No. 3

Date 1/20/2026

**1. ACCEPTANCE.** This proposal is submitted to Purchaser subject to the terms and conditions hereinafter set forth. There are no agreements or representations, verbal or otherwise, outside of this proposal. Upon the acceptance hereof by Purchaser by signing the acceptance copy of this proposal and returning the same to Seller and upon execution of this proposal by an authorized representative of Seller, this proposal shall become a binding contract. In the event that Purchaser submits its own Purchase Order in lieu of accepting this proposal, no contract shall be formed until Seller shall submit to Purchaser Seller's acknowledgement in which event a contract shall thereupon become effective subject to the terms and conditions of said acknowledgement.

**2. DELIVERY.** Unless otherwise specified, delivery shall be FOB Factory. Any delivery date set forth in this proposal is approximate. Seller recognizes the desirability of making delivery promptly. However, Seller shall not be responsible for any loss or damage resulting from any delay in delivering or failure to deliver the equipment (as used herein "equipment" refers to all equipment, materials, accessories and/or parts which Seller proposes to sell hereunder) where such delay or failure is caused by fire, flood, natural causes, labor trouble (including strikes, slowdowns and lockouts), war, Government regulations, riots, civil disorders, interruption of or delay in transportation, power failure, inability to obtain materials and supplies, accidents, acts of God, or any other cause beyond Seller's control.

**3. TAXES.** Prices specified herein do not include any Federal, State or Municipal sales use, excise or other taxes. Therefore, in addition to the prices specified herein, the amount of any such sales, use or other taxes applicable to the sale of the equipment shall be paid by Purchaser or in lieu thereof Purchaser shall furnish Seller with tax-exemption certificates acceptable to said taxing authorities.

**4. WARRANTY.** New equipment manufactured by Seller is warranted to be free from defects in material and workmanship under normal use and services for a period of one year from date of shipment; Seller's obligation under this warranty being limited to repairing or replacing at its option any part found to its satisfaction to be so defective provided that such part is, upon request, returned to Seller's factory from which it was shipped, transportation prepaid. This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, accident or neglect, or from improper operation, maintenance, installation, modification or adjustment. This warranty does not cover parts repaired outside Seller's factory without prior written approval. Seller makes no warranty as to starting equipment, electrical apparatus or other material not of its manufacture, since the same are usually covered by warranties of the respective manufacturers thereof.

In the event, notwithstanding the terms of this agreement, it is determined by a court of competent jurisdiction that an express warranty has been given by Seller to Purchaser with respect to the speed, capacity or other like performance characteristics of said equipment, Seller's liability for breach of the same be limited to accepting return of such equipment FOB plant of manufacture, refunding any amounts paid thereon by Purchaser (less depreciation at the rate of 15% per year if Purchaser has used said equipment for more than 30 days) and canceling any balance still owing on the equipment.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND SELLER SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**5. CANCELLATION.** When this proposal becomes a binding contract as hereinabove provided, the Purchaser may cancel the same at any time prior to shipment, but only upon payment to Seller of reasonable cancellation charges, which shall include expenses already incurred, the cost to Seller of canceling it and Seller's anticipated profit.

**6. COMPLIANCE WITH LAWS.** Purchaser shall be solely responsible for securing any necessary permits under and for compliance with all safety, health and sanitation laws, ordinances and regulations in connection with the installation and operation of the equipment. Purchaser agrees to provide Seller, upon request with evidence of the securing of any such permits and of compliance with any such laws, ordinances and regulations, although Seller may rely exclusively on Purchaser's representations, hereby made, that it shall secure such permits and comply with such laws, ordinances and regulations.

**7. INDEMNIFICATION.** It is understood that Seller has relied upon data furnished by and on behalf of Purchaser with respect to the safety aspects of the equipment and that it is Purchaser's responsibility to assure that the equipment will, when installed and put in use, be in compliance with safety requirements fixed by law and otherwise legally adequate to safeguard against injuries or damage to persons or property. Purchaser hereby agrees to defend, indemnify and hold harmless Seller, its agents and employees against any and all losses, costs, damages, claims, liabilities or expenses, including but not limited to reasonable attorneys' fees, arising out of or resulting from any injury or damage to any person or property caused by the inadequacy of safety features, devices or characteristics in the equipment or in the installation, use or operation of the same, except claims for repair or replacement of defective parts as provided in Paragraph 4 hereof.

**8. PATENT INFRINGEMENT.** Seller, at its own expense, shall defend any suit brought against Purchaser on the ground that use of the equipment for the purpose for which sold hereunder, infringes any United States Letters Patent existing on the date of submission hereof, and shall pay the amount of any judgment that may be awarded against Purchaser in any such suit, provided and upon condition that Purchaser shall have made all payments due for the equipment and shall (a) promptly deliver to Seller all infringement notices and other papers received by or served upon Purchaser, (b) permit Seller to take complete charge if the defense of such suit (and to settle the same if this be deemed advisable by Seller), and (c) assist in every reasonable way in the conduct of such defense. In the event that Purchaser shall be enjoined by any court of competent jurisdiction from using the equipment for the purpose for which sold hereunder on the ground that such use infringes any United States Letters Patent existing on the date of submission hereof, or if it is at any time established to Seller's satisfaction, upon due investigation, that the equipment infringes such United States Patent, Seller, at its option may either (1) procure for Purchaser a license to continue using the equipment, (2) modify the equipment so as to make it non-infringing without seriously impairing its performance, (3) replace the equipment with equipment that is substantially equal non-infringing, or to a method or process. (4) remove the equipment from point of installation, in which event Seller shall refund to Purchaser or owner the purchase price less depreciation at the rate of 15% per year.

The foregoing sets forth Seller's entire liability to Purchaser for patent infringement based on the possession and use of the equipment by Purchaser, it being understood and agreed that the aforesaid obligations of Seller do not extend to, and are not applicable in the case of, any patent infringement claims directed to a method or process.

**9. PRICES AND PAYMENT.** This proposal is valid for a period of 30 days from the date hereof. Should this proposal become a binding contract as hereinabove provided, the prices set forth herein are firm for 12 months from the date this proposal becomes a binding contract, providing drawings are returned approved within 30 days after issuance. If shipment is, for any reason, deferred beyond 12 months from the date this proposal becomes a binding contract, the prices set forth herein are subject to escalation of two percent (2%) per month from the expiration of the aforesaid 12-month period to the date of shipment.

**10. TITLE.** Title to equipment specified herein, and to any and all additions and accessories thereto and substitutions thereto, shall remain in Seller until the purchase price thereof is paid in full.

**11. RISK OF LOSS.** The risk of loss of or damage to the equipment is on Purchaser from and after delivery to Purchaser or to carrier for shipment to Purchaser.

**12. DISCLAIMER OF CONSEQUENTIAL DAMAGES, LIQUIDATED DAMAGES OR PENALTIES.** SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES. CONSEQUENTIAL DAMAGES FOR THE PURPOSES OF THIS AGREEMENT SHALL INCLUDE, BUT NOT BE LIMITED TO, LOSS OF USE, INCOME OR PROFIT, OR LOSS OF OR DAMAGE TO PROPERTY (INCLUDING, BUT WITHOUT LIMITATION, PRODUCTS MANUFACTURED, PROCESSED OR TRANSPORTED BY THE USE OF THE EQUIPMENT) OCCASIONED BY OR ARISING OUT OF THE OPERATION USE, INSTALLATION, REPAIR OR REPLACEMENT OF THE EQUIPMENT OR OTHERWISE. Seller shall not be liable for any penalty or liquidated damages based upon or relating to failure or inability to ship within a specified time.

SUBMITTED THIS 20<sup>th</sup> day of January, 2026

BY: William M. Reilly

ACCEPTED THIS \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Approved at Portland, Oregon, this

BY: \_\_\_\_\_  
Authorized Purchaser

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

\_\_\_\_\_  
Company

BY: \_\_\_\_\_  
Wm. H. Reilly & Co., Inc.

# **TROJAN UV3075K™PTP – STANDARD SPECIFICATION ULTRAVIOLET DISINFECTION EQUIPMENT**

## **1.0 GENERAL**

### **1.1 DESCRIPTION**

#### **A. Scope:**

Furnish all labor, materials, equipment and appurtenances as noted below to rebuild an existing Trojan Technologies Model 3075K PTP open channel gravity flow ultraviolet (UV) disinfection system. The components to be replaced include new UV modules with lamps and sleeves and a UV monitoring system with UV intensity sensor. Rebuilt system shall be complete and operational with all control equipment and accessories as shown and specified.

#### **B. Related Work (Specified Elsewhere):**

1. Section .....

### **1.2 QUALITY ASSURANCE**

#### **A. Design Criteria**

1. The replacement UV components will disinfect an effluent with the following characteristics:
  - a. Peak Flow: 40,000 gallons/day
  - b. Total Suspended Solids:  $\leq 30$  mg/L on a 30 day average
  - c. Ultraviolet Transmittance @ 253.7 nm: 50%
  - d. Annual Effluent Temperature Range: 33 to 85 °F
  - e. Effluent standard to be guaranteed: 200 fecal coliform / 100 ml based on a 30 day Geometric Mean of consecutive daily grab samples
2. The UV equipment will be installed in an existing Trojan Model 3075K PTP stainless steel channel.
3. The replacement components supplied will be arranged in the following manner.
  - a. Number of Lamps in each UV Lamp Module: Six (6)
  - b. Number of UV Lamp Modules: Three (3)
  - c. Number of UV Banks: One (1)
4. The lamp array configuration will be evenly spaced in both horizontal and vertical rows with all lamps parallel to each other and to the effluent flow.

#### **B. Performance Requirements:**

1. The UV system will be designed to deliver a minimum UV dose of 30,000  $\mu\text{Ws}/\text{cm}^2$  or 30 mJ/cm<sup>2</sup>, in effluent with a UV Transmission of 50% after reductions for quartz sleeve absorption, sleeve fouling, and lamp aging. The basis for evaluating the UV dose delivered by the UV

system will be the manufacturer's bioassay as carried out by an independent third party. Bioassay validation methodology to follow protocols described in US EPA Design Manual - Municipal Wastewater Disinfection (EPA/625/1-86/021), without exception.

2. The UV system will produce an effluent conforming to the following discharge permit: 200 FC/100 ml, based on a 30 day Geometric Mean. Grab samples will be taken in accordance with the Microbiology Sampling Techniques found in Standard Methods for the Examination of Water and Wastewater, 19th Ed.

### 1.3 SUBMITTALS

#### A. Shop Drawings:

Submit for review shop drawings showing the following:

1. Complete description in sufficient detail to permit an item comparison with the specification.
2. Dimensions and installation requirements.
3. Descriptive information including catalog cuts and manufacturers specifications for components.
4. Electrical schematics and layouts.
5. Independent bioassay report demonstrating dose delivered under design conditions.

### 1.4 GUARANTEE

#### A. Equipment:

The equipment furnished under this section will be free of defects in material and workmanship, including damages that may be incurred during shipping for a period of **24 months** from date of substantial completion or 30 months after shipment, whichever comes first.

#### B. UV Lamps:

The UV lamps to be warranted for a minimum of 12,000 hours (non-prorated) or thirty-six (36) calendar months from shipment, whichever comes first. Pro-rated lamp warranties will not be accepted. On / off cycles are limited to an average of four (4) per day without exception.

## 2.0 PRODUCTS

### 2.1 MANUFACTURER

- A. Trojan Technologies, of London, Ontario, Canada to match existing system.

### 2.2 GENERAL REQUIREMENTS

- A. Provide a UV lamp modules and UV monitoring system as shown on the Contract Drawings and as herein specified.
- B. UV system will be designed for complete outdoor installation, without shelter or supplemental cooling or heating required.

### 2.3 DESIGN, CONSTRUCTION AND MATERIALS

#### A. General:

1. All material in contact with effluent will be stainless steel or quartz.
2. All material exposed to UV light will be stainless steel, anodized aluminum, quartz 214, or Teflon™.

#### B. UV Module (UVM):

1. Each UV lamp module will consist of six (6) lamps and their corresponding electronic ballast. Each lamp will be enclosed in its individual quartz sleeve, one end of which will be closed and the other end sealed by a lamp end seal and holder.
2. The electrical wires connecting the lamps to the electronic ballasts will be enclosed in the stainless steel frame. Systems where lamp wiring is submerged in the effluent and exposed to UV light will not be allowed.
3. Each UV module will be provided with a standard 120 Volt plug and weatherproof cable for connection to a receptacle. The cable will be 10 feet long. A total of three (3) UV modules will be supplied. Lamp status will be displayed on top of each UV module using watertight LED indicator lights.
4. Modules will be approximately 40.2 inches long, 14.16 inches high and 2.8 inches wide, weighing approximately 22 lbs. Materials of construction will be stainless steel type 316, anodized aluminum, quartz 214, and Teflon™, with UL rating of Type 6P

C. UV Lamps:

1. UV system will use low pressure mercury slimline lamps of the hot cathode, instant start design.
2. 90% of UV output will be within the wavelengths of 233.7 to 273.7 nm.
3. The operating life of the lamp will be guaranteed for 12,000 hours.
4. Independent validation of lamps aging factor is required.

D. Lamp End Seal and Lamp Holder:

1. The open end of the lamp sleeve will be sealed by means of a sleeve nut which threads onto a sleeve cup and compresses the sleeve 'O' ring.
2. The sleeve nut will have a knurled surface to allow a positive handgrip for tightening. The sleeve nut will not require any tools for removal.

E. UV Lamp Sleeves:

1. Quartz sleeves to be Type 214 clear fused quartz circular tubing as manufactured by General Electric or equal.
2. Quartz to be rated for UV transmission of 89% and not subject to solarization.
3. The nominal wall thickness will be 1.0 to 2.0 mm to maximize UV transmission.

G. Electrical:

1. The UV disinfection system will be divided into three (3) UV modules.
2. Interconnecting Cables to be standard 120 Volt, weatherproof, 10 feet (3.0 m) long and will be suitable for outdoor installation.
3. The UV modules will connect to the existing duplex power distribution receptacles.
4. Power Consumption:
  - a. Maximum power draw to UV System will be 270 watts.
  - b. All electrical supplies will be 120 Volt, 60 Hz.
  - c. A separate 120 volt, 5 amp supply to be provided for the Monitoring System.

H. Monitoring System:

1. One (1) submersible UV sensor will continuously monitor the UV intensity produced in the bank of UV lamp modules. The sensor will measure the germicidal portion of the light emitted by the UV lamps.
2. UV intensity will be indicated on a 3 character display in mW/cm<sup>2</sup>.

3. Elapsed time in hours (lamp age) will be indicated on a 5 character display.
4. Both displays will utilize LEDs and will be visible through the panel door.
5. A dry contact will be provided for remote indication of Low UV intensity alarm.
6. Monitoring System will be enclosed in a fiberglass Type 4X wall mounted panel and is to be located less than twelve (12) feet (3.66 m) from the LED end of the UV Module.

I. Maintenance Rack:

One (1) Type 304 stainless steel maintenance rack will be supplied. The rack is designed to hold UV modules during service or maintenance.

J. Spare Parts:

The following additional parts will be furnished:

- Four UV lamps
- Four Quartz sleeves
- Four Lamp holder seals

### 3.0 EXECUTION

#### 3.1 INSTALLATION

In accordance with shop drawings, and Manufacturer's instructions.

#### 3.2 MANUFACTURER'S REPRESENTATIVE'S SERVICES

- A. Start-up, field testing and Operator Training: 1 full day on site.
- B. Warranty Service: As required during the warranty period.

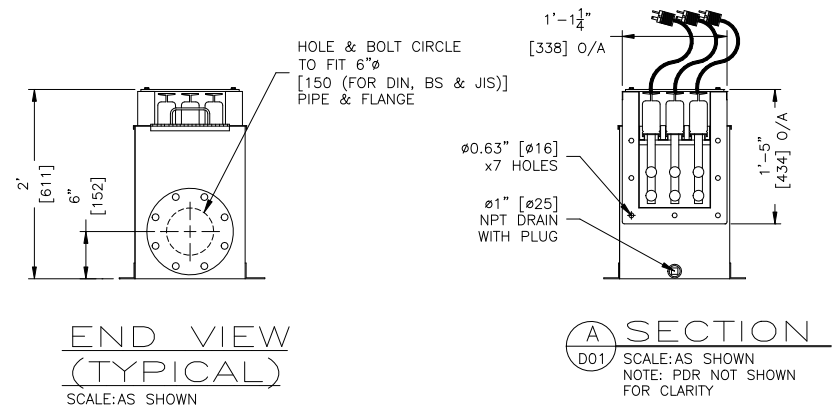
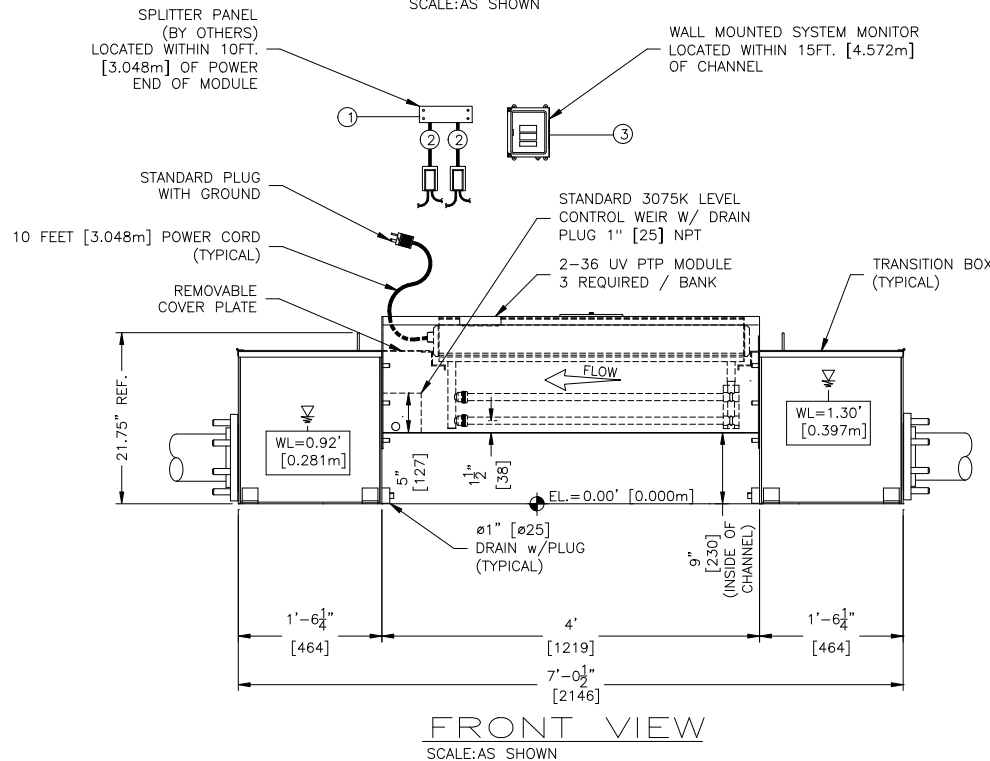
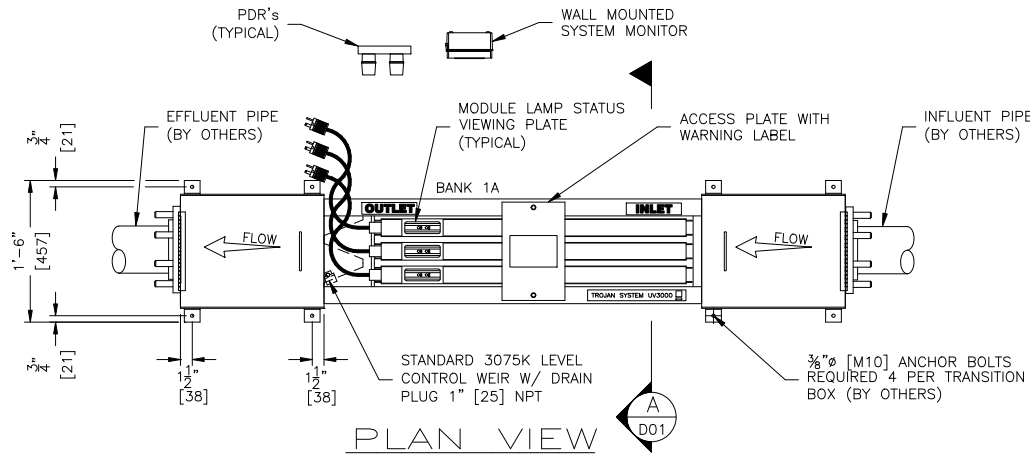
# TROJAN UV3000™ PTP

## EQUIPMENT INTERCONNECTIONS

| No. | DESCRIPTION                                                                                                 | FROM                                                  | TO                            |
|-----|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------|
| 1   | SPLITTER PANEL POWER SUPPLY<br>120V, 1 PHASE, 2 WIRE, ACTUAL DRAW<br>4.8 AMPS / SPLITTER PANEL              | DISTRIBUTION PANEL<br>(DP) (NOT SHOWN)<br>(BY OTHERS) | SPLITTER PANEL<br>(BY OTHERS) |
| 2   | POWER DISTRIBUTION RECEPTACLE (PDR)<br>POWER SUPPLY<br>120V, 1 PHASE, 2 WIRE,<br>ACTUAL DRAW 3.2 AMPS / PDR | SPLITTER PANEL<br>(BY OTHERS)                         | PDR                           |
| 3   | SYSTEM MONITOR POWER SUPPLY<br>120V, 1 PHASE, 2 WIRE, 5 AMPS                                                | DP (NOT SHOWN)<br>(BY OTHERS)                         | SYSTEM MONITOR                |

### NOTES:

- : DO NOT SLOPE CHANNEL FLOOR.
- : CHANNEL WIDTH & DEPTH MUST BE KEPT WITHIN A TOLERANCE OF + OR - ¼" [6].
- : ANCHOR BOLTS ARE NOT SUPPLIED BY TROJAN TECHNOLOGIES.
- : BOLTS, WASHERS & NUTS FOR CONNECTION OF CHANNEL TO TRANSITION BOXES ARE PROVIDED BY TROJAN TECHNOLOGIES.
- : SYSTEM CONDUIT, WIRING, DISTRIBUTION PANELS & INTERCONNECTIONS BY OTHERS.
- : ELECTRICAL REQUIREMENTS SHOWN ARE TO SUPPLY TROJAN UV EQUIPMENT ONLY. ELECTRICAL INRUSH FACTOR TO BE ADDED AS PER LOCAL CODE.
- : ANY EXTRA OUTLETS NOT BEING USED BY TROJAN EQUIPMENT HAVE NOT BEEN INCLUDED IN THE INTERCONNECT AMPERAGE.
- : CONTRACTOR TO REVIEW ALL TROJAN TECHNOLOGIES INSTALLATION INSTRUCTIONS PRIOR TO EQUIPMENT INSTALLATION.
- : ACCESS IS REQUIRED FOR MODULE REMOVAL - NOTE THE CHANNEL WIDTH AND ENSURE ADEQUATE ACCESS IS PROVIDED TO ALL MODULES.
- : DO NOT ENCASE THE STEEL CHANNEL IN CONCRETE.
- : [ ] INDICATES MILLIMETERS UNLESS OTHERWISE SPECIFIED.



### MULTIPLE CHANNELS IN PARALLEL (OPTION):

- : ADDITIONAL UNITS CAN BE INSTALLED PARALLEL TO THE UNIT SHOWN.
- : ACCESS BETWEEN EVERY 2 PARALLEL CHANNELS IS REQUIRED FOR MODULE REMOVAL - NOTE THE CHANNEL WIDTH AND ENSURE ADEQUATE ACCESS IS PROVIDED BETWEEN TRANSITION BOXES AND CHANNELS.
- : ACCESS BETWEEN A MAXIMUM OF 2 CHANNELS IS NOT REQUIRED FOR MODULE REMOVAL. TRANSITION BOXES CAN BE INSTALLED ADJACENT TO EACH OTHER.

**TROJAN UV**

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|                                                                            |               |                                |   |
|----------------------------------------------------------------------------|---------------|--------------------------------|---|
| DESCRIPTION:<br>LAYOUT, UV3000PTP-UV3075K 1 CHANNEL<br>1 BANK 2 LAMPS WEIR |               | STANDARD DRAWING NO.<br>3M0509 |   |
| DRAWN BY : LZ/JMM/SPM                                                      | DATE : 12JN21 | REFERENCE NO.<br>N/A           |   |
| CHECKED BY : SAH                                                           | DATE : 12JN22 | DWG NO. REV.                   |   |
| APPROVED BY : CAP                                                          | DATE : 12JN22 | D01                            | D |
| SCALE (8 1/2" x 11") NOT TO SCALE                                          |               | LOG NUMBER : N/A               |   |

## Bjarne Jacobsen

---

**From:** Bill Reilly <bill@whreilly.com>  
**Sent:** Wednesday, July 16, 2025 12:23 PM  
**To:** Bjarne Jacobsen  
**Cc:** 'Jay Swift'  
**Subject:** Re: [External] Re: Skagit County Edison WWTP UV

Bjarne,

The UV 3075K PTP has plenty of capacity. At 50% UVT it can deliver a dose of 30 mJ/cm<sup>2</sup> or more at up to 70,000 gpd. I am confirming if the current modules can be retrofitted into the existing stainless channel and will get back to you.

Bill

Bill Reilly | Wm. H. Reilly & Co.

503-223-6197 Office | 503-223-0845 Fax | 503-314-8386 Cell Bill@whreilly.com <mailto:Bill@whreilly.com>

## 6E - Financial Report

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**EDISON CONTRACT TRACKING 2026**

**ON-CALL SERVICES**

| <b>Vendor</b>             | <b>BAYHILL WASTEWATER</b> | <b>NOTES</b>            | <b>BAYHILL WASTEWATER</b> | <b>NOTES</b>                       |
|---------------------------|---------------------------|-------------------------|---------------------------|------------------------------------|
| <b>Contract #</b>         | C20250066                 |                         | C20250066                 |                                    |
| <b>Amendment #</b>        | N/A                       |                         | N/A                       |                                    |
| <b>Contract End Date</b>  | <b>March 1, 2026</b>      |                         | <b>March 1, 2026</b>      |                                    |
| <b>Vendor #</b>           | 35287                     |                         | 35287                     |                                    |
| <b>GL Code</b>            | 150.582.00.4110           |                         | 150.582.00.4810           |                                    |
|                           | 150.582.00.4810           |                         | 150.582.01.4110 (Grant)   |                                    |
|                           | 150.582.01.4110 (Grant)   |                         |                           |                                    |
| <b>PO #</b>               | <b>PL 6625</b>            |                         | <b>PL 6625</b>            |                                    |
| <b>Contract Amount</b>    | <b>\$36,500.00</b>        | <b>\$0.00</b>           | <b>\$2,000.00</b>         |                                    |
| <b>SPENT THRU 2025</b>    | <b>\$9,425.00</b>         | N/A                     | <b>\$0.00</b>             | N/A                                |
| <b>January</b>            | \$870.00                  | INV 2026-1 Monthly Rate | \$0.00                    | N/A                                |
| <b>February</b>           | \$870.00                  | INV 2026-2 Monthly Rate | \$0.00                    | N/A                                |
| <b>March</b>              | \$870.00                  | INV 2026-3 Monthly Rate | \$0.00                    | N/A                                |
| <b>April</b>              | \$870.00                  | INV 2026-4 Monthly Rate | \$150.00                  | INV 2026-5 Engineer Report Meeting |
| <b>May</b>                | \$870.00                  | INV 2026-6 Monthly Rate | \$0.00                    | N/A                                |
| <b>June</b>               |                           |                         |                           |                                    |
| <b>July</b>               |                           |                         |                           |                                    |
| <b>August</b>             |                           |                         |                           |                                    |
| <b>Septemebr</b>          |                           |                         |                           |                                    |
| <b>October</b>            |                           |                         |                           |                                    |
| <b>November</b>           |                           |                         |                           |                                    |
| <b>December</b>           |                           |                         |                           |                                    |
| <b>Spent to Date:</b>     | \$13,775                  | \$0.00                  | \$150.00                  | \$0.00                             |
| <b>Remaining Balance:</b> | <b>\$22,725.00</b>        | <b>\$0.00</b>           | <b>\$1,850.00</b>         | <b>\$0.00</b>                      |

| BURLINGTON-EDISON | NOTES                   | EUROFIN ANALYTICAL | NOTES                    |
|-------------------|-------------------------|--------------------|--------------------------|
| C20250232         |                         | C20230430          |                          |
| N/A               |                         | N/A                |                          |
| May 1, 2028       |                         | September 30, 2026 |                          |
| 20162             |                         | 35249              |                          |
| 150.582.00.4810   |                         | 150.582.00.4110    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
| N/A               |                         | N/A                |                          |
| \$21,000.00       | \$0.00                  | \$40,000.00        | \$0.00                   |
| \$0.00            | N/A                     | \$1,793.00         | N/A                      |
| \$1,860.00        | 2026 ATS Yearly Billing | \$124.00           | Monthly WWTF Rate        |
| \$0.00            | N/A                     | \$1,028.00         | WWTF \$124 + FSC \$904   |
| \$0.00            | N/A                     | \$124.00           | Monthly WWTF Rate        |
| \$690.49          | Q1 Mowing & Electrical  | \$1,636.00         | WWTF \$124 + FSC \$1,512 |
| \$0.00            | N/A                     | \$124.00           | Monthly WWTF Rate        |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
| \$2,550           | \$0.00                  | \$4,829.00         | \$0.00                   |
| \$18,449.51       | \$0.00                  | \$35,171.00        | \$0.00                   |

| BURLINGTON-EDISON | NOTES                   | EUROFIN ANALYTICAL | NOTES                    |
|-------------------|-------------------------|--------------------|--------------------------|
| C20250232         |                         | C20230430          |                          |
| N/A               |                         | N/A                |                          |
| May 1, 2028       |                         | September 30, 2026 |                          |
| 20162             |                         | 35249              |                          |
| 150.582.00.4810   |                         | 150.582.00.4110    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
| N/A               |                         | N/A                |                          |
| \$21,000.00       | \$0.00                  | \$40,000.00        | \$0.00                   |
| \$0.00            | N/A                     | \$1,793.00         | N/A                      |
| \$1,860.00        | 2026 ATS Yearly Billing | \$124.00           | Monthly WWTF Rate        |
| \$0.00            | N/A                     | \$1,028.00         | WWTF \$124 + FSC \$904   |
| \$0.00            | N/A                     | \$124.00           | Monthly WWTF Rate        |
| \$690.49          | Q1 Mowing & Electrical  | \$1,636.00         | WWTF \$124 + FSC \$1,512 |
| \$0.00            | N/A                     | \$124.00           | Monthly WWTF Rate        |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
|                   |                         |                    |                          |
| \$2,550           | \$0.00                  | \$4,829.00         | \$0.00                   |
| \$18,449.51       | \$0.00                  | \$35,171.00        | \$0.00                   |

**EDISON CONTRACT TRACKING 2026**

**ON-CALL SERVICES**

| THE DRAIN DOCTOR       |                      | THE DRAIN DOCTOR       |                                                           |
|------------------------|----------------------|------------------------|-----------------------------------------------------------|
| NOTES                  |                      | NOTES                  |                                                           |
| C20250636              |                      | C20250636              |                                                           |
|                        |                      |                        |                                                           |
| <b>January 1, 2027</b> |                      | <b>January 1, 2027</b> |                                                           |
| 10947                  |                      | 10947                  |                                                           |
| 150.582.00.4110        |                      | 150.582.00.4810        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
| <b>PL 2536</b>         |                      | PL 2536                |                                                           |
| <b>\$44,399.00</b>     | <b>\$0.00</b>        | <b>\$5,600.00</b>      | <b>\$0.00</b>                                             |
| <b>\$0.00</b>          | N/A                  | <b>\$0.00</b>          | N/A                                                       |
| \$3,687.00             | Monthly Rate \$3,687 | \$350.00               | On-Call \$350 - Residential Pump Alarm                    |
| \$3,687.00             | Monthly Rate \$3,687 | \$2,444.42             | On-Call \$2,444.42 - Residential Riser & Lid Replacements |
| \$3,687.00             | Monthly Rate \$3,687 | \$0.00                 | N/A                                                       |
| \$3,687.00             | Monthly Rate \$3,687 | \$0.00                 | N/A                                                       |
| \$3,687.00             | Monthly Rate \$3,687 | \$0.00                 | N/A                                                       |
| \$3,687.00             | Monthly Rate \$3,687 | \$0.00                 | N/A                                                       |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
|                        |                      |                        |                                                           |
| \$22,122.00            | \$0.00               | \$2,794.42             |                                                           |
| <b>\$22,277.00</b>     | <b>\$0.00</b>        | <b>\$2,805.58</b>      |                                                           |

# EDISON CONTRACT TRACKING 2026

| *GRANT FUNDED*        |                                                      | PER YEAR                 |               | PER YEAR        |
|-----------------------|------------------------------------------------------|--------------------------|---------------|-----------------|
| GRAY & OSBORNE        | NOTES                                                | DAHL ELECTRIC            | NOTES         | UTILITY LOCATE  |
| C2025255              |                                                      | C20230104                |               | N/A             |
| N/A                   |                                                      | N/A                      |               | N/A             |
| <b>April 30, 2026</b> |                                                      | <b>December 31, 2028</b> |               | <b>N/A</b>      |
| C0382                 |                                                      | 10841                    |               | 13596           |
| 150.582.01.4110       |                                                      | 150.582.00.4110          |               | 150.582.00.4910 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
| <b>PL 5525</b>        |                                                      | <b>N/A</b>               |               | <b>N/A</b>      |
| <b>\$118,900.00</b>   | <b>\$0.00</b>                                        | <b>\$15,000.00</b>       |               | <b>\$20.00</b>  |
| <b>\$45,768.37</b>    | N/A                                                  | <b>\$0.00</b>            | N/A           | <b>\$0.00</b>   |
| \$0.00                | N/A                                                  | \$0.00                   | N/A           | \$0.00          |
| \$2,423.12            | Electric Data, Prelim Project Spec & Plans           | \$0.00                   | N/A           | \$1.35          |
| \$12,122.17           | Engineering Report, QAQC, Predesign Report           | \$0.00                   | N/A           | \$0.00          |
| \$1,492.87            | Engineering Report, County Meeting, Predesign Report | \$0.00                   | N/A           | \$0.00          |
| \$1,492.87            | Engineering Report, County Meeting, Predesign Report | \$0.00                   | N/A           | \$1.38          |
| \$0.00                | N/A                                                  | \$0.00                   | N/A           | \$0.00          |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
|                       |                                                      |                          |               |                 |
| \$63,299.40           | \$0.00                                               | \$0.00                   | \$0.00        | \$2.73          |
| <b>\$55,600.60</b>    | <b>\$0.00</b>                                        | <b>\$15,000.00</b>       | <b>\$0.00</b> | <b>\$17.27</b>  |

# EDISON CONTRACT TRACKING 2026

| <b>*SOLE SOURCE*</b>    | <b>*SINGLE PURCHASE*</b> | <b>PER YEAR</b> |                     |
|-------------------------|--------------------------|-----------------|---------------------|
| <b>THE DRAIN DOCTOR</b> | <b>PUMP TECH</b>         | <b>ECOLOGY</b>  | <b>TOTAL AWARDS</b> |
| C20260103               | N/A                      | N/A             |                     |
| N/A                     | N/A                      | N/A             |                     |
| <b>June 30, 2026</b>    | N/A                      | N/A             |                     |
| 10947                   | 12778                    | 32612           |                     |
| 150.582.00.4810         | 150.582.00.6410          | 150.582.00.4910 |                     |
|                         |                          |                 |                     |
|                         |                          |                 |                     |
| N/A                     | <b>FULFILLED</b>         | <b>PERMIT</b>   |                     |
| <b>\$5,750.00</b>       | <b>\$5,916.54</b>        | <b>\$700.00</b> | \$295,785.54        |
| <b>\$0.00</b>           | <b>\$0.00</b>            | <b>\$0.00</b>   | \$56,986.37         |
| \$0.00                  | \$0.00                   | \$0.00          | \$6,891.00          |
| \$0.00                  | \$5,916.54               | \$0.00          | \$16,370.43         |
| \$0.00                  | <b>\$0.00</b>            | \$0.00          | \$16,803.17         |
| \$0.00                  | <b>\$0.00</b>            | \$0.00          | \$8,526.36          |
| <b>\$0.00</b>           | <b>\$0.00</b>            | <b>\$0.00</b>   | \$6,175.25          |
| <b>\$0.00</b>           | <b>\$0.00</b>            | <b>\$0.00</b>   | \$3,687.00          |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
|                         | <b>\$0.00</b>            |                 | \$0.00              |
| \$0.00                  | \$5,916.54               | \$0.00          | \$115,439.58        |
| <b>\$5,750.00</b>       | \$0.00                   | \$700.00        | <b>\$180,345.96</b> |

# EDISON SUBAREA

Edison Rev and Exp vs Budget

Report Format 012

Period 4 ending April 30, 2026

Transaction status 1  
Rounding to Whole Dollars

Fnd 150 EDISON CLEAN WTR DIST. SUBA Dpt 0082 EDISON CLEAN WTR DIST. SUBA

|               |                                | Current<br>Actuals | YTD<br>Actual | 2026<br>BUDGET | Amount<br>Available | Percent<br>Available |
|---------------|--------------------------------|--------------------|---------------|----------------|---------------------|----------------------|
| Div 000       | EDISON CLEAN WTR DIST. SUBAREA |                    |               |                |                     |                      |
| Typ 003       | REVENUES                       |                    |               |                |                     |                      |
| 150 382001870 | ECWDS OPERATING ASSES          | 48,130-            | 48,130-       | 90,858-        | 42,728-             | 47.0                 |
| 150 382006111 | ECWDS INVESTMENT INTE          | 3,583-             | 3,583-        | 12,000-        | 8,417-              | 70.1                 |
|               |                                | -----              | -----         | -----          | -----               | -----                |
| Typ 003       | REVENUES                       | 51,713-            | 51,713-       | 102,858-       | 51,145-             | 49.7                 |
| Typ 005       | EXPENDITURES                   |                    |               |                |                     |                      |
| 150 582001100 | ECWDS SALARIES AND WA          | 818                | 818           | 13,035         | 12,217              | 93.7                 |
| 150 582002100 | ECWDS SOCIAL SECURITY          | 43                 | 43            | 997            | 954                 | 95.7                 |
| 150 582002200 | ECWDS RETIREMENT               | 32                 | 32            | 727            | 695                 | 95.6                 |
| 150 582002300 | ECWDS LABOR AND INDUS          | 3                  | 3             | 37             | 34                  | 93.0                 |
| 150 582002400 | ECWDS MEDICAL                  | 149                | 149           | 2,880          | 2,731               | 94.8                 |
| 150 582002900 | ECWDS UNEMPLOYMENT CO          | 7                  | 7             | 164            | 157                 | 95.6                 |
| 150 582004110 | ECWDS PROFESSIONAL SE          | 20,194             | 20,194        | 70,414         | 50,220              | 71.3                 |
| 150 582004128 | ECWDS PROF SVCS - OTH          | 45                 | 45            |                | 45-                 |                      |
| 150 582004810 | ECWDS REPAIRS AND MAI          | 4,654              | 4,654         | 6,500          | 1,846               | 28.4                 |
| 150 582004910 | ECWDS MISCELLANEOUS            |                    |               | 35             | 35                  | 100.0                |
| 150 582006410 | ECWDS EQUIPMENT > \$5,         | 5,917              | 5,917         | 9,000          | 3,083               | 34.3                 |
|               |                                | -----              | -----         | -----          | -----               | -----                |
| Typ 005       | EXPENDITURES                   | 31,863             | 31,863        | 103,789        | 71,926              | 69.3                 |



# Transaction Detail Report - Actuals Status 1

26/05/19-12:09

Skagit County - (FY26 PROD Dataset)

May 19 202

GL789

## EDISON SUBAREA

Transaction Detail Report - Actuals

Status 1

For Date Range 04/01/2026 to 04/30/2026

| SS  | Ident     | Batch                          | Sheet  | Seq    | Stat     | Per  | Date | Description                               | Trans Amount |
|-----|-----------|--------------------------------|--------|--------|----------|------|------|-------------------------------------------|--------------|
| 150 | 582001100 | ECWDS SALARIES AND WAGES       |        |        |          |      |      |                                           |              |
| PA  | 7740      | S R                            | PRL    | 112811 | 53       | 1    | 2    | 4 04/30/26 LANGLEY, ERIN                  | 78.36        |
| PA  | 8108      | S R                            | PRL    | 112811 | 63       | 1    | 2    | 4 04/30/26 PILON, LAVELLE                 | 126.16       |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 204.52       |
| 150 | 582002100 | ECWDS SOCIAL SECURITY          |        |        |          |      |      |                                           |              |
| PA  |           | S R                            | PRL    | 112617 | 80000    | 2681 | 2    | 4 04/10/26 ECWDS SOCIAL SECURITY          | 21.69        |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 21.69        |
| 150 | 582002200 | ECWDS RETIREMENT               |        |        |          |      |      |                                           |              |
| PA  |           | S R                            | PRL    | 112617 | 80000    | 2682 | 2    | 4 04/10/26 ECWDS RETIREMENT               | 16.36        |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 16.36        |
| 150 | 582002300 | ECWDS LABOR AND INDUSTRIES     |        |        |          |      |      |                                           |              |
| PA  |           | S R                            | PRL    | 112617 | 80000    | 2683 | 2    | 4 04/10/26 ECWDS LABOR AND INDUSTRIES     | 1.48         |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 1.48         |
| 150 | 582002400 | ECWDS MEDICAL                  |        |        |          |      |      |                                           |              |
| PA  |           | S R                            | PRL    | 112617 | 80000    | 2684 | 2    | 4 04/10/26 ECWDS MEDICAL                  | 75.70        |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 75.70        |
| 150 | 582002900 | ECWDS UNEMPLOYMENT COMPENSATIO |        |        |          |      |      |                                           |              |
| PA  |           | S R                            | PRL    | 112617 | 80000    | 2685 | 2    | 4 04/10/26 ECWDS UNEMPLOYMENT COMPENSATIO | 3.81         |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 3.81         |
| 150 | 582004110 | ECWDS PROFESSIONAL SERVICES    |        |        |          |      |      |                                           |              |
| AP  | 617152    | BAYHILL WAS A/P                | 158419 | 1      | 1        | 2    | 2    | 4 04/08/26 BAYHILLWASTE C20250066 PO: PL6 | 870.00       |
| AP  | 617160    | BURLINGTON A/P                 | 158419 | 2      | 1        | 2    | 2    | 4 04/08/26 BURLINGTON C20250232           | 690.49       |
| AP  | 617198    | EUROFINS EN A/P                | 158419 | 3      | 1        | 2    | 2    | 4 04/08/26 EUROFINS C20230430 A20250164   | 124.00       |
| AP  | 617375    | THE DRAIN D A/P                | 158419 | 4      | 1        | 2    | 2    | 4 04/08/26 DRAIN DOCTOR C20250636 PO: PL2 | 3687.00      |
| AP  | 617507    | EUROFINS EN A/P                | 158561 | 4      | 1        | 2    | 2    | 4 04/21/26 EUROFINS C20230430 A20250164 S | 124.00       |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 5495.49      |
| 150 | 582004128 | ECWDS PROF SVCS - OTHER        |        |        |          |      |      |                                           |              |
| GL  | 053551    | INI                            | 105355 | 1      | 521      | 2    | 4    | 04/01/26 SymPro Inv # 15000 Earnings AI   | 11.68        |
|     |           | Period                         |        |        | Total    | 04   |      |                                           | 11.68        |
| 150 | 582004410 | ECWDS REPAIRS AND MAINTENANCE  |        |        |          |      |      |                                           |              |
|     |           | Total Debits :                 |        |        | 5,830.73 |      |      | Total Credits :                           | 0.00         |

EDISON SUBAREA

# DOH GRANT

Edison Rev and Exp vs Budget

Report Format 012

Period 4 ending April 30, 2026

Transaction status 1  
Rounding to Whole Dollars

Fnd 150 EDISON CLEAN WTR DIST. SUBA Dpt 0082 EDISON CLEAN WTR DIST. SUBA

|               |                                | Current<br>Actuals | YTD<br>Actual | 2026<br>BUDGET | Amount<br>Available | Percent<br>Available |
|---------------|--------------------------------|--------------------|---------------|----------------|---------------------|----------------------|
| Div 001       | PUGET SOUND ACTION AGENDA      |                    |               |                |                     |                      |
| Typ 003       | REVENUES                       |                    |               |                |                     |                      |
| 150 382016612 | PSAA EPA-PUGET SOUND           | 14,731-            | 14,731-       | 184,365-       | 169,634-            | 92.0                 |
|               |                                | -----              | -----         | -----          | -----               | -----                |
| Typ 003       | REVENUES                       | 14,731-            | 14,731-       | 184,365-       | 169,634-            | 92.0                 |
| Typ 005       | EXPENDITURES                   |                    |               |                |                     |                      |
| 150 582011100 | PSAA SALARIES AND WAG          | 1,428              | 1,428         | 5,394          | 3,966               | 73.5                 |
| 150 582012100 | PSAA SOCIAL SECURITY           | 80                 | 80            | 412            | 332                 | 80.5                 |
| 150 582012200 | PSAA RETIREMENT                | 61                 | 61            | 301            | 240                 | 79.8                 |
| 150 582012300 | PSAA LABOR AND INDUST          | 3                  | 3             | 12             | 9                   | 74.0                 |
| 150 582012400 | PSAA MEDICAL                   | 260                | 260           | 960            | 700                 | 72.9                 |
| 150 582012900 | PSAA UNEMPLOYMENT COM          | 14                 | 14            | 68             | 54                  | 79.9                 |
| 150 582014110 | PSAA PROFESSIONAL SER          | 16,188             | 16,188        | 100,000        | 83,812              | 83.8                 |
| 150 582014430 | PSAA LEGAL PUBLICATIO          |                    |               | 500            | 500                 | 100.0                |
| 150 582016410 | PSAA EQUIPMENT > \$5,0         |                    |               | 68,000         | 68,000              | 100.0                |
|               |                                | -----              | -----         | -----          | -----               | -----                |
| Typ 005       | EXPENDITURES                   | 18,034             | 18,034        | 175,647        | 157,613             | 89.7                 |
|               |                                | -----              | -----         | -----          | -----               | -----                |
| Fnd 150       | EDISON CLEAN WTR DIST. SUBAREA | 16,547-            | 16,547-       | 7,787-         | 8,760               | 112.5-               |
|               |                                | -----              | -----         | -----          | -----               | -----                |
|               | Report Final Totals            | 16,547-            | 16,547-       | 7,787-         | 8,760               | 112.5-               |
|               |                                | -----              | -----         | -----          | -----               | -----                |



# Transaction Detail Report - Actuals Status 1

26/05/20-07:00

Skagit County - (FY26 PROD Dataset)

May 20 202

GL789

## DOH GRANT

Transaction Detail Report - Actuals

Status 1

For Date Range 04/01/2026 to 04/30/2026

| SS  | Ident        | Batch                          | Sheet  | Seq    | Stat   | Per  | Date | Description | Trans Amount                   |                                |        |
|-----|--------------|--------------------------------|--------|--------|--------|------|------|-------------|--------------------------------|--------------------------------|--------|
| 150 | 582011100    | PSAA SALARIES AND WAGES        |        |        |        |      |      |             |                                |                                |        |
| PA  | 7740         | S R                            | PRL    | 112668 | 63     | 1    | 2    | 4 04/15/26  | LANGLEY, ERIN                  | 470.16                         |        |
| PA  | 7740         | S R                            | PRL    | 112811 | 54     | 1    | 2    | 4 04/30/26  | LANGLEY, ERIN                  | 339.56                         |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 809.72                         |        |
| 150 | 582012100    | PSAA SOCIAL SECURITY           |        |        |        |      |      |             |                                |                                |        |
| PA  |              | S R                            | PRL    | 112617 | 80000  | 2686 | 2    | 4 04/10/26  | PSAA SOCIAL SECURITY           | 15.51                          |        |
| PA  |              | S R                            | PRL    | 112774 | 80000  | 2483 | 2    | 4 04/24/26  | PSAA SOCIAL SECURITY           | 34.62                          |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 50.13                          |        |
| 150 | 582012200    | PSAA RETIREMENT                |        |        |        |      |      |             |                                |                                |        |
| PA  |              | S R                            | PRL    | 112617 | 80000  | 2687 | 2    | 4 04/10/26  | PSAA RETIREMENT                | 11.66                          |        |
| PA  |              | S R                            | PRL    | 112774 | 80000  | 2484 | 2    | 4 04/24/26  | PSAA RETIREMENT                | 26.24                          |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 37.90                          |        |
| 150 | 582012300    | PSAA LABOR AND INDUSTRIES      |        |        |        |      |      |             |                                |                                |        |
| PA  |              | S R                            | PRL    | 112617 | 80000  | 2688 | 2    | 4 04/10/26  | PSAA LABOR AND INDUSTRIES      | 0.48                           |        |
| PA  |              | S R                            | PRL    | 112774 | 80000  | 2485 | 2    | 4 04/24/26  | PSAA LABOR AND INDUSTRIES      | 1.46                           |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 1.94                           |        |
| 150 | 582012400    | PSAA MEDICAL                   |        |        |        |      |      |             |                                |                                |        |
| PA  |              | S R                            | PRL    | 112617 | 80000  | 2689 | 2    | 4 04/10/26  | PSAA MEDICAL                   | 41.20                          |        |
| PA  |              | S R                            | PRL    | 112774 | 80000  | 2486 | 2    | 4 04/24/26  | PSAA MEDICAL                   | 117.05                         |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 158.25                         |        |
| 150 | 582012900    | PSAA UNEMPLOYMENT COMPENSATION |        |        |        |      |      |             |                                |                                |        |
| PA  |              | S R                            | PRL    | 112617 | 80000  | 2690 | 2    | 4 04/10/26  | PSAA UNEMPLOYMENT COMPENSATION | 2.23                           |        |
| PA  |              | S R                            | PRL    | 112774 | 80000  | 2487 | 2    | 4 04/24/26  | PSAA UNEMPLOYMENT COMPENSATION | 6.22                           |        |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 8.45                           |        |
| 150 | 582014110    | PSAA PROFESSIONAL SERVICES     |        |        |        |      |      |             |                                |                                |        |
| AP  | 617212 C0382 | GRAY & OSBO                    | A/P    | 158419 | 5      | 1    | 2    | 4 04/08/26  | C20250255 PO: PL5525           | 1492.87                        |        |
| AP  | 617459 35287 | BAYHILL                        | WAS    | A/P    | 158561 | 3    | 1    | 2           | 4 04/21/26                     | BAYHILLWASTE C20250066 A202600 | 150.00 |
|     |              |                                | Period |        | Total  | 04   |      |             |                                | 1642.87                        |        |

Total Debits : 2,709.26

Total Credits : 0.00

DOH GRANT

# 7 – Unfinished Business

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## A. Annual Agenda Items

- a. Corrections to assessments
- b. Ground water monitoring plan
- c. Newsletter and recognition letter in memoriam of Darryl

### Edison Subarea Advisory Board

# Memo

To: Lavelle Pilon

From: Bernie Alonzo, Chair; Tom Skinner, Vice Chair

Cc: Scott Mangold, Jess Hackler, Allen Rozema, Jason D'Avignon

Date: June 3, 2026

Re: Edison Subarea Clean Water District 2026 Assessment Corrections

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#### 1. Summary

The Edison Subarea Clean Water District Advisory Board (ESAB) provides recommendations affecting the maintenance, operations, and administration of the Edison Subarea Clean Water District (ESCWD) to the Skagit County Staff and the Skagit County Board of County Commissioners (BOCC). The ESCWD district was formed to allow the creation of the wastewater treatment system that serves the rural community of Edison.

In the fall of 2025, the ESAB prepared recommendations for the proposed sewer system assessments for the 2026 fiscal year. During the final quality control review, the ESAB discovered discrepancies in assessment amounts that could not be evaluated and corrected, if necessary, prior to the final review and adoption of the 2026 assessments.

Subsequently, the ESAB reviewed the ESCWD customer sites and County Assessor parcel numbers to evaluate the discrepancies. The Skagit County Assessor provided the ESAB with a report, "*Special Assessment Calculation Comparison Report ESCWD (EDISON SUBAREA CLEAN WATER DIST)*," that provided further clarification of what amounts were collected by the county on behalf of the ESCWD.

The ESAB prepared this memo to identify the findings and to make recommendations for next steps.

#### 2. Issues and Recommendations

**Issue:** Current practice for the annual assessments includes the ESAB developing an assessment amount based on costs of operations and planned expenses. These assessments are formulated as rates and passed on to the BOCC for review and adoption. Once adopted, the Skagit County Assessor's Office adds the amount, under the heading ESCWD, to the

annual property tax assessment for customer parcels within the boundary of the ESCWD. The authority to make corrections to past assessments is ambiguous in the code that governs the system, Skagit County Code (SCC) 12.64 and, to the Board's knowledge, not previously considered.

**Recommendation:** Skagit County Planning and Development Services staff along with staff from the Assessor's office, and legal counsel from the Prosecuting Attorney's office meet to clarify the responsibilities and the appropriate pathway to make corrections. Members of the ESAB should be included in the meeting.

**Issue:** The ESCWD boundary is not clearly visible in the county's publicly accessible GIS system (iMap).

**Recommendation:** Skagit County Planning and Development Services staff work with the appropriate county staff and leadership to approve the inclusion of the boundary in iMap so that the public can clearly see what parcels are within the ESCWD.

**Issue:** Edison WWS Customer Site 1 / SCA P48505 was previously connected to the system and chose to disconnect the property from the system. At that time the sewer share reverted to a future share. The ESCWD has several outstanding shares that are associated with parcels throughout the district. SCC 12.64 has no formal mechanism recognizing the reversion of active shares to future shares and this process needs to be formalized.

A related question that arose around this parcel, is whether a future share is transferable. The ESAB has recognized that provided there is no net increase in shares and the capacity exists in the system, future shares may be transferred. However, there is no mechanism for this to occur and to be tracked.

**Recommendation:** Skagit County Planning and Development Services staff along with staff from the Assessor's office, and legal counsel from the Prosecuting Attorney's office meet with members of the ESAB to work through how sewer shares are tracked and how they may change ownership.

**Issue:** Edison WWS Customer Site 15 / SCA P33788 – This parcel is outside the ESCWD boundary adopted May 28, 1996, in Skagit County Ordinance 16177. However, under ownership that precedes the current ownership, the parcel was believed to have a future sewer share. In 2020, a short plat was filed creating 3 new parcels along the west edge of the parcel, abutting Farm to Market Road (P135167, P135168, and P135169). Under a separate filing, a portion of P33788 was transferred to ESCWD Customer #6 and expanded P48571 outside the subarea boundary.

**Recommendation:** The Assessor's Office should evaluate the property recordings and confirm the above findings. If the findings are correct, no new assessments should be levied on P33788 and the current and previous owners may be due a refund of assessed fees that were not due because the parcel was outside of the subarea boundary.

It is possible that the future share that was originally associated with WWS Customer Site 15 was transferred to Site 6 in which case no refund would be due as the future share was transferred and Site 6 is now connected to the WWS.

Parcels P135167, P135168, and P135169 will be addressed as a separate issue below.

**Issue:** Edison WWS Customer Site 17 / SCA P72999 was charged for a future share in the 2026 assessments. This resulted due to confusion about the parcel having two addresses and two Edison WWS numbers. The charge for one future share was applied to Site 16, and an additional future share was charged to Site 17. There is only one future share associated with this parcel.

**Recommendation:** SCA P72999 (Edison WSS Site 17) should be credited \$120 plus interest. The appropriate method for crediting the property owner is unclear. The Assessor may have procedures in place. From the ESAB perspective, either a credit against the 2027 ESCWD assessments or a refund from Fund 150 is acceptable.

**Issue:** Parcels P135167, P135168, and P135169 are outside of the ESCWD. These parcels were created from P33788 via a short plat recorded June 25, 2020 (AFN 202006250109). Since the creation of these parcels, the current owner and, possibly, previous owners have been assessed a “future share” fee and, for 2026, were charged a full active connection fee (1 ERU). These parcels appear to have “inherited” the future share status of their “parent” parcel (P33788). This is not appropriate for two reasons – the created parcels are clearly outside of the ESCWD boundary and SCC 12.64 provides for late comer procedures that were not followed.

**Recommendation:** SCA P135167, P135168, and P135169 should not have been assessed any ESCWD fees. Any fees paid in previous years taxes should be refunded to the owner who paid the fees. The appropriate method for crediting the property owner is unclear. The Assessor may have procedures in place. From the ESAB perspective, either a credit against the 2027 ESCWD assessments or a refund from Fund 150 is acceptable.

# 7.A. - Corrections to Assessments

Special Assessment Calculation Comparison Report  
ESCWD (EDISON SUBAREA CLEAN WATER DIST) 2025-2026 compared to 2024-2025

| Gain/Loss Summary:                               |                         |                       |
|--------------------------------------------------|-------------------------|-----------------------|
| Year                                             | Total Assessment Amount | Total # of Properties |
| 2025-2026                                        | 94,606.70               | 74                    |
| 2024-2025                                        | 98,826.35               | 74                    |
| Difference                                       | -4,219.65               | 0                     |
| Percent Change                                   | -4.27%                  | 0.00%                 |
| New for 2025-2026                                |                         |                       |
| Count                                            | Total Amount            |                       |
| Existed in 2024-2025 but excluded from 2025-2026 |                         |                       |
| Count                                            | Total Amount            |                       |

| Gain/Loss per Property |                                 | 2025-2026 |           | 2024-2025 |           | Gain/Loss | Pct. Change |
|------------------------|---------------------------------|-----------|-----------|-----------|-----------|-----------|-------------|
| Property ID            | Owner Name                      | Amount    | Exemption | Amount    | Exemption | Amount    |             |
| 33788                  | MOGA PROPERTIES LLC             | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 33832                  | MCRAE KEN                       | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 33834                  | DEGLORIA RICHARD JOHN III       | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48505                  | DUBOIS SHANNON                  | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 48510                  | KERR LOGAN                      | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48514                  | BETSCHART ALLEN DEBRA MARLENE   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48517                  | CHAMBERLAIN MARTIN N            | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48529                  | JEWETT KELLY M                  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48535                  | BURLINGTON EDISON SCHOOLS NO 11 | 3,307.83  |           | 4,180.11  |           | -872.28   | -20.87%     |
| 48536                  | EDISON GRANARY HOLDINGS LLC     | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48560                  | ALONZO BERNARD                  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48562                  | VALLEE ANDREW A                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48563                  | PARKER TRACEY L                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48564                  | VANFIELD TRACEY                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48565                  | KVISTAD DARRYL L                | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48567                  | BAILEY JILL H                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48569                  | MICHAEL ELLEN J                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48570                  | CONN MICHAEL W                  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48571                  | MOGA PROPERTIES LLC             | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 48593                  | PERRY THOMAS C                  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72945                  | SOURDOUGH HOLDINGS LLC          | 3,536.59  |           | 5,845.73  |           | -2,309.14 | -39.50%     |
| 72946                  | TMC PROPERTY INVESTMENTS LLC    | 4,571.91  |           | 7,778.48  |           | -3,206.57 | -41.22%     |
| 72947                  | SAMISH RIVER PROPERTIES LLC     | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72949                  | NORTH EDISON PROPERTIES LLC     | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 72951                  | REISEN JAMES ROSS               | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72952                  | ROBBINS MICHELE M               | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72953                  | ROBBINS JAMES MICHAEL           | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 72954                  | ROBBINS JAMES M                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72955                  | LEIGH NICHOLE P                 | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 72956                  | ROBBINS LINDA                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72957                  | RADICH TRAVIS J                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72958                  | SAMISH RIVER PROPERTIES LLC     | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72962                  | GOULD DAVID                     | 2,950.97  |           | 3,786.38  |           | -835.41   | -22.06%     |
| 72963                  | RUST TONI ANN                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72964                  | EVANS MARILYN                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72965                  | RUST TONI ANN                   | 3,355.56  |           | 3,109.49  |           | 246.07    | 7.91%       |
| 72966                  | ATKINSON THEODORE CHARLES       | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72967                  | BRICK UNICORN LLC               | 120.00    |           | 120.00    |           | 0.00      | 0.00%       |
| 72968                  | KXA ESTATES LLC                 | 1,725.00  |           | 1,641.00  |           | 84.00     | 5.12%       |
| 72969                  | YOUNGQUIST JEFFREY              | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72971                  | LAMB ANNA M                     | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72973                  | YOUNG DAVID B                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72974                  | HENKEL WILLIAM B                | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72975                  | CZABAN ARIC                     | 1,725.00  |           | 1,641.00  |           | 84.00     | 5.12%       |
| 72976                  | AYDELOTTE ALEXIS SINCLAIR       | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72977                  | COLLINGE IRIS                   | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72979                  | TURNER AMANDA JENE              | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72981                  | BARKER CHRIS                    | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72982                  | BISCUIT WHEELS LLC              | 3,983.28  |           | 6,268.64  |           | -2,285.36 | -36.46%     |
| 72983                  | TIFFANY JOANNE ALISON           | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72984                  | BAJEMA THOMAS D                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72985                  | MANGOLD SCOTT A & BOURGAULT RE  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72986                  | ROBBINS DORIS T                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72987                  | REDDING WILLIAM D               | 1,270.00  |           | 1,214.00  |           | 56.00     | 4.61%       |
| 72988                  | SULLIVAN MICHAEL R              | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72989                  | OUELLETTE TY A                  | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72990                  | LEIGH NICHOLE P                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72991                  | PARKER RACHEL E                 | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |
| 72992                  | SKINNER THOMAS R                | 1,150.00  |           | 1,094.00  |           | 56.00     | 5.12%       |

|        |                                 |          |           |           |           |        |
|--------|---------------------------------|----------|-----------|-----------|-----------|--------|
| 72997  | CAMMOCK CHRIS                   | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 72999  | FERDINAND ANNA                  | 1,965.00 | 1,788.00  | 177.00    | 9.90%     |        |
| 73000  | FADDEN R SCOTT & FADDEN IRENE W | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 73001  | NORTH EDISON PROPERTIES LLC     | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 73004  | CALLAWAY BERNARD B              | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 73006  | PARE ROBERT                     | 120.00   | 120.00    | 0.00      | 0.00%     |        |
| 73007  | THOMAS SUSAN                    | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 73008  | MAYER PETER J                   | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 73010  | PERRY THOMAS C                  | 1,150.00 | 1,094.00  | 56.00     | 5.12%     |        |
| 123956 | DOWEN ROBERT N                  | 120.00   | 120.00    | 0.00      | 0.00%     |        |
| 128797 | THE EDISON CAFE LLC             | 2,580.56 | 3,885.52  | -1,304.96 | -33.59%   |        |
| 130572 | ROBBINS JAMES M AND ROBBINS BET | 575.00   | 574.00    | 1.00      | 0.17%     |        |
| 135167 | MOGA PROPERTIES LLC             | 1,150.00 | 120.00    | 1,030.00  | 858.33%   |        |
| 135168 | MOGA PROPERTIES LLC             | 1,150.00 | 120.00    | 1,030.00  | 858.33%   |        |
| 135169 | MOGA PROPERTIES LLC             | 1,150.00 | 120.00    | 1,030.00  | 858.33%   |        |
| Count  | 74                              | Totals   | 94,606.70 | 98,826.35 | -4,219.65 | -4.27% |

Values in this report are the snapshot of data when the report is generated. This report may not reflect the original tax value if Special Assessments were changed after tax calculation.

| System ID Num | Property ID | Owner Name                          | Physical Address         | Mailing Address (If Different)                                                         | Connection Type             | 2025-2026 Amount | Comments                                                                                                                                                                                                                                                                                                         |
|---------------|-------------|-------------------------------------|--------------------------|----------------------------------------------------------------------------------------|-----------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1             | 48505       | Dubois Shannon                      | 5864 Farm To Market Road |                                                                                        | FUTURE (REVERT FROM ACTIVE) | \$ 120.00        | This parcel was previously connected to the system. The connection "reverted" to a future share when they disconnected                                                                                                                                                                                           |
| 2             | 48510       | Kerr Logan                          | 5852 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 3             | 48514       | Betschart Allen Debra Marlene       | 5936 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 4             | 33834       | Degloria Richard John Iii           | 6030 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 5             | 33832       | Mcrae Ken                           | 6058 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 6             | 48571       | Moga Properties LLC                 | 5987 Farm To Market Road | 4915 26th Avenue NE Suite 204, Seattle, wa 98105                                       | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 7             | 48570       | Conn Michael W                      | 5979 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 8             | 48569       | Michael Ellen J                     | 5941 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 9             | 48567       | Bailey Jill H                       | 5927 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 10            | 48565       | Kvistad Darryl L                    | 5885 Farm To Market Road |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 11            | 48562       | Vallee Andrew A                     | 14032 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 12            | 48564       | Vanfield Tracey                     | 14058 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 13            | 48563       | Parker Tracey L                     | 14068 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 14            | 48536       | Edison Granary Holdings LLC         | 14096 Gilmore Avenue     | Po Box 292, Bow, Wa 98232                                                              | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 15            | 33788       | Moga Properties LLC                 |                          |                                                                                        | FUTURE (STUB ONLY)          | \$ 120.00        | The parcel number is outside of the ESCWD boundary. In 2020 a short plat was filed creating 3 new parcels, 135167, 135168, and 135169, parcel comments below. Under separate recordings it appears that a portion of this parcel was transferred to Site 6 (P#48571) prior to the Moga ownership of this parcel. |
| 16            | 72999       | Ferdinand Anna                      | 5847 Main Avenue         |                                                                                        | FUTURE (STUB ONLY)          | \$ 120.00        |                                                                                                                                                                                                                                                                                                                  |
| 17            | 72999       | Ferdinand Anna                      | 5849 Main Avenue         |                                                                                        | ACTIVE WITH ADU             | \$ 1,845.00      |                                                                                                                                                                                                                                                                                                                  |
| 18            | 73000       | Fadden R Scott & Fadden Irene W     | 5819 Main Avenue         |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 19            | 73001       | North Edison Properties LLC         | 5811 Main Avenue         | 5742 Gilkey Ave, Bow, Wa 98232                                                         | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 20            | 128797      | The Edison Cafe LLC                 | 5797 Main St             |                                                                                        | FOOD SERVICE                | \$ 2,580.56      |                                                                                                                                                                                                                                                                                                                  |
| 21            | 72957       | Radich Travis J                     | 14119 Mactaggart Avenue  |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 22            | 72956       | Robbins Linda                       | 14091 Mactaggart Avenue  |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 23            | 72955       | Leigh Nichole P                     | 14090 Mactaggart Avenue  |                                                                                        | FUTURE (WITH TANK)          | \$ 120.00        |                                                                                                                                                                                                                                                                                                                  |
| 24            | 72954       | Robbins James M                     | 14059 Mactaggart Avenue  |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 25            | 72953       | Robbins James Michael               | 14051 Mactaggart Avenue  |                                                                                        | FUTURE (WITH TANK)          | \$ 120.00        |                                                                                                                                                                                                                                                                                                                  |
| 26            | 72952       | Robbins Michele M                   | 14033 Mactaggart Avenue  |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 27            | 72951       | Reisen James Ross                   | 14011 Mactaggart Avenue  |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 28            | 72958       | Samish River Properties LLC         | 5717 Gilkey Avenue       | 5742 Gilkey Ave, Bow, Wa 98232                                                         | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 29            | 72947       | Samish River Properties LLC         | 5742 Gilkey Avenue       | 15617 Field Rd, Bow, Wa 98232                                                          | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 30            | 72946       | Tmc Property Investments LLC        | 5754 Gilkey Avenue       |                                                                                        | FOOD SERVICE                | \$ 4,571.91      |                                                                                                                                                                                                                                                                                                                  |
| 31            | 72945       | Sourdough Holdings LLC              | 5766 Cains Court         |                                                                                        | FOOD SERVICE                | \$ 3,536.59      |                                                                                                                                                                                                                                                                                                                  |
| 32            | 72964       | Evans Marilyn                       | 5778 Cains Court         |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 33            | 72963       | Rust Toni Ann                       | 5782 Cains Court         |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 34            |             | Tweets                              | 5800 Cains Court         |                                                                                        | FOOD SERVICE                | \$ 2,205.56      |                                                                                                                                                                                                                                                                                                                  |
| 35            | 72965       | Rust Toni Ann                       | 5800 Cains Court         |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 36            | 72962       | Gould David                         | 14003 Gilmore Avenue     | 1605 Kathryn Lane, Bellingham, Wa 98229                                                | FOOD SERVICE                | \$ 2,950.97      |                                                                                                                                                                                                                                                                                                                  |
| 37            | 72982       | Biscuit Wheels LLC                  | 5829 Cains Ct            | Old Edison Inn, C/O Biscuit Wheels LLC/John Hyatt, Po Box 1929, Mount Vernon, Wa 98273 | FOOD SERVICE                | \$ 3,983.28      |                                                                                                                                                                                                                                                                                                                  |
| 38            | 72981       | Barker Chris                        | 5821 Cains Court         |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 39            | 72983       | Tiffany Joanne Alison               | 14061 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 40            | 72984       | Bajema Thomas D                     | 14073 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 41            | 72985       | Mangold Scott A & Bourgault Renee M | 14083 Gilmore Avenue     |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 42            | 72986       | Robbins Doris T                     | 5841 Ewings Court        |                                                                                        | ACTIVE                      | \$ 1,150.00      |                                                                                                                                                                                                                                                                                                                  |
| 43            | 72987       | Redding William D                   | 14137 Gilmore Avenue     |                                                                                        | FUTURE (STUB ONLY)          | \$ 120.00        |                                                                                                                                                                                                                                                                                                                  |

|     |        |                                     |                          |                                 |                    |             |                                                                                                                                                                                                                                                                          |
|-----|--------|-------------------------------------|--------------------------|---------------------------------|--------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 44  | 72987  | Redding William D                   | 14137 Gilmore Avenue     |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 45  | 72988  | Sullivan Michael R                  | 5836 Main Avenue         |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 46  | 72992  | Skinner Thomas R                    | 14118 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 47  | 72991  | Parker Rachel E                     | 14118 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 48  | 72990  | Leigh Nichole P                     | 14090 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 49  | 72989  | Ouellette Ty A                      | 14078 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 50  | 72997  | Cammock Chris                       | 5815 Ewings Court        |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 51  | 72973  | Young David B                       | 14064 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 52  | 72971  | Lamb Anna M                         | 14050 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 53  | 72949  | North Edison Properties LLC         | 5715 Gilkey Avenue       | 5742 Gilkey Ave, Bow, Wa 98232  | FUTURE (STUB ONLY) | \$ 120.00   |                                                                                                                                                                                                                                                                          |
| 54  | 72969  | Youngquist Jeffrey                  | 14034 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 55  | 72968  | Kxa Estates LLC                     | 14022 Mactaggart Avenue  | Po Box 279 ,<br>Bow, Wa 98232   | ACTIVE WITH ADU    | \$ 1,725.00 |                                                                                                                                                                                                                                                                          |
| 56  | 72966  | Atkinson Theodore Charles           | 14010 Mactaggart Avenue  |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 57  | 72967  | Brick Unicorn LLC                   | 5787 Cains Court         | 5548 Smith Rd,<br>Bow, Wa 98232 | FUTURE (STUB ONLY) | \$ 120.00   |                                                                                                                                                                                                                                                                          |
| 58  | 72974  | Henkel William B                    | 14023 Maccos Court       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 59  | 72975  | Czaban Aric                         | 14037 Maccos Court       |                                 | ACTIVE WITH ADU    | \$ 1,725.00 |                                                                                                                                                                                                                                                                          |
| 60  | 72976  | Aydelotte Alexis Sinclair           | 14043 Maccos Court       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 61  | 72977  | Collinge Iris                       | 14057 Maccos Court       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 62  | 72979  | Turner Amanda Jene                  | 5800 Ewings Court        |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 63  | 48560  | Alonzo Bernard                      | 5548 Smith Road          |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 64  | 123956 | Dowen Robert N                      | 5557 Smith Road          |                                 | FUTURE (STUB ONLY) | \$ 120.00   |                                                                                                                                                                                                                                                                          |
| 65  | 48593  | Perry Thomas C                      | 5694 Smith Road          |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 66  | 73010  | Perry Thomas C                      | 14095 Doser Street       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 67  |        |                                     |                          |                                 |                    |             |                                                                                                                                                                                                                                                                          |
| 68  | 73008  | Mayer Peter J                       | 14119 Doser Street       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 69  | 73007  | Thomas Susan                        | 14129 Doser Street       |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 70  | 73006  | Pare Robert                         | 14114 Doser Street       |                                 | FUTURE (STUB ONLY) | \$ 120.00   |                                                                                                                                                                                                                                                                          |
| 71  | 73004  | Callaway Bernard B                  | 5722 Smith Road          |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 72  | 48529  | Jewett Kelly M                      | 14239 West Bow Hill Road |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 73  | 48535  | Burlington Edison Schools No 100    | 5801 Main Avenue         |                                 | SCHOOL             | \$ 3,307.83 |                                                                                                                                                                                                                                                                          |
| 36a | 48517  | Chamberlain Martin N                | 5848 Farm To Market Road |                                 | ACTIVE             | \$ 1,150.00 |                                                                                                                                                                                                                                                                          |
| 36b | 130572 | Robbins James M And Robbins Bette L | 14005 Gilmore Avenue     |                                 | ADU                | \$ 575.00   | ADU Only - No primary residence on this property                                                                                                                                                                                                                         |
| NNA | 135167 | Moga Properties LLC                 |                          |                                 | OUTSIDE OF ESCWD   | \$ 1,150.00 | New parcel from P33788. Short Plat recorded June 25, 2020, see AFN 202006250109. Parcel is outside the ESA Boundary and not eligible for connection to the ESCWD System. Any tax paid for "Edison Field Design" or "Edison Subarea Clean Water Dist" should be refunded. |
| NNA | 135168 | Moga Properties LLC                 |                          |                                 | OUTSIDE OF ESCWD   | \$ 1,150.00 | New parcel from P33788. Short Plat recorded June 25, 2020, see AFN 202006250109. Parcel is outside the ESA Boundary and not eligible for connection to the ESCWD System. Any tax paid for "Edison Field Design" or "Edison Subarea Clean Water Dist" should be refunded. |
| NNA | 135169 | Moga Properties LLC                 |                          |                                 | OUTSIDE OF ESCWD   | \$ 1,150.00 | New parcel from P33788. Short Plat recorded June 25, 2020, see AFN 202006250109. Parcel is outside the ESA Boundary and not eligible for connection to the ESCWD System. Any tax paid for "Edison Field Design" or "Edison Subarea Clean Water Dist" should be refunded. |

Source: 2025 Property Tax Assessment - Payable 2026.pdf, pages 2-3. Exemption columns appeared in the report header but were blank in the table rows.



### Edison Subarea Wastewater System Boundary and Connections

Active residential connection

Active residential connection with active ADU connection

Active ADU Connection

Future connection share

Active Food Service Commercial connection

Active Elementary School connection

Parcels within the Edison Subarea Boundary without a future share

Edison Clean Water District Boundary (approximate) as adopted by Skagit County Ordinance #16177 on May 28, 1997, Exhibit B - Map 1 and Map 2 prepared by Wilson Engineering

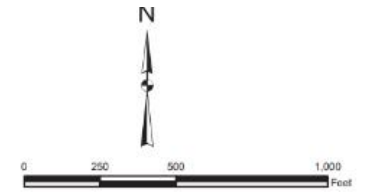
Sources:

Parcel Connection Status: 2025 Property Tax Assessment - Payable 2026.PDF, pages 2-3.

Parcel P Number Mapping: Skagit County Property Map as depicted in iMap May, 2026.

Edison Subarea Site Numbers:

| System ID Num | Property ID | System ID Num | Property ID | System ID Num | Property ID |
|---------------|-------------|---------------|-------------|---------------|-------------|
| 1             | 48505       | 30            | 72946       | 59            | 72975       |
| 2             | 48510       | 31            | 72945       | 60            | 72976       |
| 3             | 48514       | 32            | 72964       | 61            | 72977       |
| 4             | 33834       | 33            | 72963       | 62            | 72979       |
| 5             | 33832       | 34            | 72963       | 63            | 48560       |
| 6             | 48571       | 35            | 72965       | 64            | 123956      |
| 7             | 48570       | 36            | 72962       | 65            | 48593       |
| 8             | 48569       | 37            | 72982       | 66            | 73010       |
| 9             | 48567       | 38            | 72981       | 67            |             |
| 10            | 48565       | 39            | 72983       | 68            | 73008       |
| 11            | 48562       | 40            | 72984       | 69            | 73007       |
| 12            | 48564       | 41            | 72985       | 70            | 73006       |
| 13            | 48563       | 42            | 72986       | 71            | 73004       |
| 14            | 48536       | 43            | 72987       | 72            | 48529       |
| 15            | 33788       | 44            | 72987       | 73            | 48535       |
| 16            | 72999       | 45            | 72988       | 36a           | 48517       |
| 17            | 72999       | 46            | 72992       | 36b           | 130572      |
| 18            | 73000       | 47            | 72991       | NNA           | 135167      |
| 19            | 73001       | 48            | 72990       | NNA           | 135168      |
| 20            | 128797      | 49            | 72989       | NNA           | 135169      |
| 21            | 72957       | 50            | 72997       |               |             |
| 22            | 72956       | 51            | 72973       |               |             |
| 23            | 72955       | 52            | 72971       |               |             |
| 24            | 72954       | 53            | 72949       |               |             |
| 25            | 72953       | 54            | 72969       |               |             |
| 26            | 72952       | 55            | 72968       |               |             |
| 27            | 72951       | 56            | 72966       |               |             |
| 28            | 72958       | 57            | 72967       |               |             |
| 29            | 72947       | 58            | 72974       |               |             |



#### LEGEND:

- Residential on Gravity
- Residential on Pumping
- Commercial on Gravity
- Future Stubout
- High I/I Residential STEP
- Waterbody

#### SKAGIT COUNTY EDISON CLEAN WATER DISTRICT

WASTEWATER CAPACITY PLAN  
FIGURE 3-2  
COLLECTION SYSTEM TYPE OF SERVICE



# 7.B. - Ground Water Monitoring Plan

## Edison-Standard Operating Procedure (SOP)

### Monitoring Well Purging and Groundwater Sampling for General Chemistry Parameters

#### 1. Purpose

The purpose of this Standard Operating Procedure (SOP) is to establish uniform methods for purging monitoring wells and collecting groundwater samples for general chemistry analysis. Proper purging and sampling ensure the collection of formation-representative groundwater suitable for analysis of pH, nitrate, total dissolved solids (TDS), and total coliform (TC).

#### 2. Scope

This SOP applies to all personnel responsible for groundwater monitoring, including permanent monitoring wells. The procedure supports environmental investigations, regulatory compliance monitoring, and long-term groundwater programs.

#### 3. Responsibilities

##### Sampling Technician

1. Performs purging, stabilization monitoring, and sample collection.
2. Documents field activities, observations, and measurements.
3. Reviews field documentation and verify data completeness and quality.
4. Ensure compliance with this SOP and project-specific requirements.
5. Verifies calibration and operability of field equipment.

#### 4. Health and Safety Requirements

1. Follow the site-specific Health and Safety Plan (HASP).
2. Required PPE typically includes:
  - Safety glasses
  - Nitrile or chemical-resistant gloves
  - Steel-toe boots
  - High-visibility vest (site-dependent)
3. Use appropriate lifting techniques and avoid confined space hazards.

#### 5. Equipment and Materials

1. Water level indicator (electric sounder)
2. Purge device (peristaltic pump)
3. Flow-through cell for low-flow purging
4. Multi-parameter water quality meter (pH, conductivity, temperature)
5. Calibration standards (pH 4, 7, 10; conductivity standards)
6. 0.45 µm in-line filters for dissolved metals (if required)
7. Tubing (well dedicated)
8. Laboratory-provided sample containers and preservatives
9. Cooler with ice or ice packs

10. Decontamination supplies
11. Field notebook

## **6. Procedures**

### **6.1 Pre-Sampling Activities**

1. Review project sampling plan, prior well logs, and historical groundwater data.
2. Calibrate field instrumentation according to manufacturer instructions.
3. Inspect wellhead, casing condition, and lock integrity.
4. Measure and record static water level before purging.
5. Calculate water column height and determine purge approach (low-flow or volume-based).

### **6.2 Purging Methods**

#### **6.2.1 Low-Flow Purging (Preferred Method)**

1. Position pump intake at the midpoint of the screened interval.
2. Begin pumping at a flow rate of 0.1–0.5 L/min.
3. Route discharge water through a flow-through cell for continuous monitoring.
4. Record stabilization readings every 3–5 minutes.
5. Continue purging until three consecutive readings meet all criteria:
  - pH:  $\pm 0.1$  SU
  - Conductivity:  $\pm 3\%$
  - Temperature:  $\pm 0.2^{\circ}\text{C}$
6. Without adjusting the pump rate, proceed directly to sample collection.

#### **6.2.2 Volume-Based Purging**

1. Calculate total volume based on casing diameter and water column height.
2. Remove a minimum of three well volumes, unless stabilization occurs earlier.
3. Record water quality parameters after each well volume.
4. Continue purging until stabilization criteria match those listed under low-flow purging.

### **6.3 Sample Collection**

#### **6.3.1 General Requirements**

1. Collect samples only after water quality parameters stabilize.
2. Maintain constant pump rate from purging into sampling.
3. Avoid aeration, agitation, or contact with ambient air.
4. Collect samples in order of least to most contaminated wells.

#### **6.3.2 Sample Collection Order**

1. Field parameters (measured in the flow-through cell)
2. Alkalinity
3. Total Coliform (TC)
4. Nitrate, samples filtered through 0.45  $\mu\text{m}$  filter
5. Total Dissolved Solids (TDS) samples filtered through 0.45  $\mu\text{m}$  filter

#### **6.3.3 Filtration**

1. For dissolved fraction analyses, filter samples using a 0.45  $\mu\text{m}$  in-line filter.

2. Pre-rinse filter with sample water before filling sample bottles.

#### **6.3.4 Sample Preservation and Handling**

1. Use laboratory-supplied, pre-labeled bottles with proper preservatives.
2. Fill bottles completely or per laboratory requirements.
3. Store samples immediately at  $\leq 6^{\circ}\text{C}$  in a cooler with ice.
4. Complete chain-of-custody (COC) forms and field logs.

### **7. Post-Sampling Activities**

1. Securely replace well caps and locks.
2. Decontaminate all non-dedicated sampling equipment.
3. Manage purge water in accordance with site-specific waste disposal requirements.
4. Review field forms for completeness and accuracy.
5. Deliver samples to the laboratory under proper COC procedures.

### **8. Documentation Requirements**

1. Well ID, date, and time of sampling
2. Personnel involved
3. Weather and site conditions
4. Static water level
5. Purge method, purge volumes, and pump rate
6. Stabilization and water quality parameter data
7. Sample IDs, bottle types, preservatives, and analysis requested

### **9. References**

1. Manufacturer equipment manuals
2. DOE Standard Operating Procedure (EAP099, Version 1.2)
3. Applicable federal and state groundwater sampling guidance



Bernie Alonzo <bernie.alonzo@gmail.com>

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## Edison-Items needed for ground water sampling project

1 message

---

**Don Erickson** <bayhillwws@gmail.com>

Tue, May 12, 2026 at 7:37 PM

To: "Lavelle E. Pilon" <lpilon@co.skagit.wa.us>, Bernie Alonzo <bernie.alonzo@gmail.com>, Thomas Skinner <skinner@fidalgo.net>

Lavelle,

These are the items we are going to need to do the ground water sampling.

10 needed-[Groundwater Filter - 0.45 Micron | Environmental Test Products](#)

1 needed-[Silicone Pump Tubing for Geotech Geopump, Size 24, 1/4"ID x 25'L Roll, 77050009 | USABlueBook.com](#)

1 needed-[PVC Suction Sampler Tubing, 1/4" ID x 1/2" OD, 100 ft Roll | USABlueBook.com](#)

1 pack of 10-[Quickun Plastic Hose Barb Fitting, 1/4" x 1/4" Barbed Splicer Mender Joint Adapter Union Fitting \(Pack of 5\): Amazon.com: Industrial & Scientific](#)

2 pack-[Amazon.com: Mighty Max Battery ML8-12 - 12 Volt 8 AH SLA Battery - Pack of 2 : Electronics](#)

# 7.C. - Draft Letter to the Community

## Edison Subarea Advisory Board (The Edison Sewer Board)

May 27, 2026

Dear Members of the Edison Community,

It is with great sorrow that we share the loss of Darryl Kvistad, March 24, 2026.

If a community has pillars, Darryl was one of ours. Those of us on the Sewer Board know him as a colleague and steward of our unique system. As a founding member of this board, he was among those community members who saw value in maintaining the viability of the town and the health of Samish Bay, working toward the solutions from which we all now benefit. He will be remembered for his careful listening, his consideration of a problem from many sides, his measured choice of words, the willingness to give of his time and energy to others, without question.

Darryl was a volunteer firefighter in Edison. Likely the first to respond to any call. When my kids were younger, we would count the seconds between the emergency alarm sounding and Darryl whizzing by in his old beat-up black pickup truck, ready for action. The seconds were few. Darryl protected us from harm, helped us when hurt, and looked out for our well-being. His capability, care and concern for our safety and his desire to assist those in need were unquestioned.

Darryl was a teacher at Edison Elementary for many years. He influenced and educated generations of children in our community, at times teaching the children of parents who had also sat in his classroom. Education may be the single most important factor determining the long-term success of a community. Along with the kids, we are all fortunate to have had his knowledge, his seeds of inspiration, his worldview imparted to so many, for so long.

In a remembrance of Darryl's legacy, one would be remiss not to mention the ladders.

The Kvistad home was eternally encumbered by ladders. Sure, keeping up with maintenance is important. Freshening up the paint, protecting one's home from the elements, certainly worthy causes. However, when the remarkable thing about driving into town becomes the absence of ladders leaning on any or all walls of his home, one might suspect one has a passion for ladders. To Darryl's credit, he was creating beauty and completion. He avidly sought out scraps or remnants of the unique and specific trim pieces to match those already on his house. He would climb up, match up pieces and paints and hope the next windstorm left them be. He was presenting his home, his family, and our little village to all who came through. He made us feel welcome.

We will miss you Darryl Kvistad. We will remember you for everything you have given to us and do our best to carry your values and spirit into the future. Peace.

Scott Mangold – for the Edison Subarea Advisory Board

# 7.C. - Draft Newsletter

## Edison Subarea Clean Water District, Skagit County

Edison Subarea Advisory Board Newsletter – Town Sewer System

June 22, 2026

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### Meetings

Board Meetings are open to the public and held at 5:00 pm on the 4th Wednesday of each month at Edison Elementary in the Teachers' Lounge.

### Sewer Board Openings

Edison Subarea Advisory Board positions are up for election in August 2026. The Edison sewer system is an important part of what makes our town viable.

The Board meets monthly with our Maintenance Contractor, Operator, and Skagit County Representative. The role of the Board is to cooperate with the County to recommend and establish regulations, rate schedules and fees, review operation and maintenance procedures and expenditures, advise the County on collection and distribution of funds, review grant and loan status, act as liaison between the Subarea participants and the County, and work to ensure that Subarea revenues are spent on the operation, maintenance, and administration of the system.

Board Members must be property owners within the Edison Subarea and serve 4-year terms.

We'd love to have some new faces getting involved with helping to maintain our vibrant community. Please consider coming on board. You can express your interest or ask questions of:

- Bernie Alonzo (206) 369-9339
- Tom Skinner (360) 333-7587
- Scott Mangold (360) 661-4732

More information can be found at the following links:

<https://www.skagitcounty.net/Departments/PlanningAndPermit/edisonsubarea.htm>

<https://www.codepublishing.com/WA/SkagitCounty/#!/SkagitCounty12/SkagitCounty1264.html#12.64>

### Community Notes

Don, our Operator, did the research — Edison has the lowest-cost wastewater treatment for customers in all of Skagit County. All of us play a part in ensuring we maintain proper disposal of our wastewater. We are responsible for the long-term viability of our unique system in the choices we make each day.

Upon closer inspection, the tarp covering the gravel filter at the treatment plant should have another 5 or more years of useful life. Replacement plans are on hold.

The Board is establishing an annual calendar of tasks and projects intended to keep us organized and on track. This year we intend to evaluate our policies and make necessary changes so that they agree with county code. Working with the county, we will improve our website for ease of use, resources, information, and as a community communication tool.

While the system continues to operate as expected, we continue to discuss the future operation of the treatment plant and drain fields in terms of reasonable longevity and longer-term options for continued effluent treatment for our town.

## Clean Plate Club

Please put food waste in the compost or landfill. Garbage disposals are not great for our system. If you have one, we ask you to leave it idle. If you don't have one, cancel your dreams.

Pushing additional matter into the lines increases the risk of clogging filters, increases the frequency you'll need to pump your tank, and adds extra work and oxygen demand at the treatment plant.

**Wipe your plates and pans before washing them.**

**Also forbidden:**

- Fat, oil, grease
- Coffee grounds
- Paint
- Harsh chemicals
- Septic treatment additives

We've got live organisms breaking things down in the gravel filter. Let's keep them alive.

## Operations and Maintenance

Our pump rebuilding rotation went off the rails — literally. The new rail slides provided with the rebuilt motor to guide it into place were incorrectly sized. The correct rails are on the way.

The Maintenance contract went out for bid at the end of last year. The Drain Doctor was re-contracted at the start of the year. Bayhill Wastewater Services, our Operator, has also re-contracted services with us for an additional year beginning March 2026.

## Department of Ecology

In 2025, the Edison Subarea Sewer received the Outstanding Wastewater Treatment Plant Award from the Washington Department of Ecology for operating the system with no discharge exceedances. This was welcome recognition and caught the attention of our County Commissioners, who highlighted our work during a recent hearing session. The County will be displaying the plaque near the hearing room on Continental Place.

We continue to await our next 5-year Discharge Permit from the DOE. They have been backlogged, though we have had contact from our permit manager and believe they are working on it now. We have been told to begin — and will in June — the field sampling of groundwater stipulated in our pending permit. Otherwise, we operate under the conditions of our existing permit for now.

## UV Grant

The engineering report, "*Wastewater Treatment Plant Ultraviolet Disinfection System Replacement Engineering Report*," from Gray and Osborne is in final draft form and was sent to DOE and Skagit County Department of health for final comment. Through the process, we found some savings that will help stretch the grant funds further. We will not be required to deconstruct any components, as the new UV lamps will fit easily in our existing layout. However, we will need to upgrade the main electric panel to increase the electrical capacity of the UV panel to meet code. The project

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**Contacts & Additional Information**

*[ADD CONTACTS AND INFO HERE]*

# 8 – New Business

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## A. Ecology permit considerations

- a. General Sewer Plan update
- b. Drainfield capacity and upgrades requirements
- c. WQ Combined Fund recipient training opportunities

## B. Maintenance Contract – Scope and Timing of RFP for next contract

# 8.A. - Ecology Permit Considerations



Bernie Alonzo <bernie.alonzo@gmail.com>

## Fwd: SAVE THE DATE - Upcoming grants & loans training workshops

3 messages

Don Erickson <bayhillwvs@gmail.com>

Tue, May 19, 2026 at 6:29 AM

To: "Lavelle E. Pilon" <lpilon@co.skagit.wa.us>, Bernie Alonzo <bernie.alonzo@gmail.com>, Thomas Skinner <skinner@fidalgo.net>

Sent from my iPhone

Begin forwarded message:

**From:** "Matthews, David C. (ECY)" <davm461@ecy.wa.gov>  
**Date:** May 18, 2026 at 4:43:54 PM PDT  
**To:** bayhillwvs@gmail.com, Erin Langley <erinl@co.skagit.wa.us>  
**Subject:** FW: SAVE THE DATE - Upcoming grants & loans training workshops

Hi Erin, Don,

I'm forwarding the below **WQ Combined Fund recipient training** info for this year. If Edison is considering an application, attending would be worthwhile. Competition is expected to be strong over the next couple of years, so even small differences in application scores may make a meaningful impact. If you plan to apply this fall, please let me know. I'd be happy to connect you with resources and guidance to help strengthen your application.

**Edison should be in a planning phase right now** and may **need an updated General Sewer Plan**. Also, based on the recent **Drainfield Capacity Analysis**, **an engineering report must be done to plan drainfield upgrades**. Your next State Waste Discharge Permit will include a compliance schedule for this Engineering Report. You might not get this permit until early 2027, but it's a good idea to consider your funding options both in this funding cycle and for the following year.

Let me know if you have any questions.

All the best,

Dave

|                                                                                     |                                           |                        |
|-------------------------------------------------------------------------------------|-------------------------------------------|------------------------|
|  | <b>David Matthews, P.E.</b>               | 913 Squalicum Way #101 |
|                                                                                     | Environmental Engineer                    | Bellingham, WA 98225   |
|                                                                                     | Municipal Wastewater Permits Unit         | 206-677-3800           |
|                                                                                     | Water Quality Program, NW Regional Office | davm461@ecy.wa.gov     |

**From:** Washington Department of Ecology <waecy@public.govdelivery.com>

**Sent:** Thursday, May 14, 2026 9:28 AM

To: Matthews, David C. (ECY) <davm461@ECY.WA.GOV>

Subject: SAVE THE DATE - Upcoming grants & loans training workshops

## 8.A. - Grant & Loan Recipient Training



### Save the date!

#### Water quality grant & loan recipient training

Ecology invites all water quality grant & loan recipients with active agreements, and those who **may** receive funding for state fiscal year (SFY) 2027, to attend our annual recipient training workshops. **Please note this invitation does not guarantee funding.** The SFY 2027 Final Offer List will be published by July 1, 2026. [Keep an eye on our website for updates.](#)

#### Recipient training schedule (via Zoom):

- **July 13, 2026 - Wastewater Facility projects**
  - 9:00am - 12:00pm
  - 1:00pm - 3:00pm
- **July 14, 2026 - Stormwater Facility and Activity projects**
  - 8:30am - 4:00pm with lunch break
- **July 15, 2026 - Nonpoint Source Activity projects & Onsite Sewage System projects**
  - 9:00am - 3:00pm with lunch break
- **July 16, 2026 - Cultural Resources for all projects**
  - 9:00am - 11:00am
- **July 16, 2026 - Environmental Review for loan projects**
  - 1:00 - 2:00pm

You should attend if you are the **Project Manager, Billing Contact, Engineer, or Consultant** responsible for:

- Grant or Loan Deliverables
- Environmental Review for Loan projects
- Cultural Resource Requirements
- Amendment Requests
- Progress Reporting
- Payment Requests
- Agreement Close Out

Please share with your colleagues who may not have received the invite.

If you were forwarded this email, please [sign up for our \*\*Water\*\* Quality Grants and Loans email list](#) to receive future registration links and updates.

Keep an eye out for registration links, and more information about applicant training dates for the next funding cycle coming soon.

## 8.B. - Maintenance Contract - Type/Limits

### ATTACHMENT A

#### Bid Requirements for Public Works Contracts

| Contract Amount        | Procurement Process  | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Less than \$40,000     | Minimal Competition  | No bid requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Less than \$50,000     | Limited Public Works | <ul style="list-style-type: none"><li>- Option to request only 3 quotes from vendors on small works roster, although this option requires maintaining a list of contractors that have been contacted during past 24 months.</li><li>- Cannot favor certain contractors and must equitably distribute contract opportunities.</li><li>- Formal sealed bidding not required.</li></ul>                                                                                                                                                                    |
| Less than \$350,000    | Small Works Roster   | <ul style="list-style-type: none"><li>- Must solicit from entire roster or a minimum of five contractors, although this option requires maintaining a list of contractors that have been contacted during past 24 months.</li><li>- Cannot favor certain contractors and must equitably distribute contract opportunities.</li><li>- If soliciting less than entire small works roster for projects greater than \$250,000, must notify the remaining contractors that quotes are being sought.</li><li>- Formal sealed bidding not required.</li></ul> |
| Greater than \$350,000 | Formal Bidding       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

#### Additional Notes:

- All public works projects subject to prevailing wage.
  - o Only contracts below \$2500 may utilize the combined Intent & Affidavit form.
- All contracts utilizing federal funds must follow separate guidelines not applicable to this County policy.

# **CONTRACT PROVISIONS and SPECIFICATIONS**

## **Edison Wastewater Treatment Facility Maintenance & Repair Services**

### **SMALL PUBLIC WORKS PROJECT SKAGIT COUNTY PLANNING & DEVELOPMENT SERVICES**

**Must be an approved contractor on the Municipal Research and Services Center (MRSC) Roster in order to Bid this project:**  
<http://www.mrscrosters.org>



# GENERAL INFORMATION

## PROJECT TITLE:

EDISON WASTEWATER TREATMENT FACILITY MAINTENANCE & REPAIR SERVICES

## INTENT OF CONTRACT:

The contract shall continue for a term of “**X**” from the date of execution, with the option to renew for no more than “**X**” additional years.

Skagit County estimates the value of the Contract shall not exceed “\$”. The estimate is based on past experience, and the value of the Contract may vary. Work will be provided on a regular schedule along with on-call services on an as-needed basis. Skagit County cannot guarantee the Contractor any amount of work for this contract period.

This contract is for maintenance and repair services for Skagit County’s Clean Water District Edison Subareas Wastewater Treatment Facility, Commercial Businesses septic and grease traps along with Residential septic systems.

Contractor requires knowledge of Wastewater Treatment Facilities with water collection system. Must have analytic sampling experience and supplies to fulfill this requirement. Requires knowledge of air vac units, level control, removal and replacement of pumps, maintaining grease interceptors and must have a minimum back truck of 3,000 gallons.

**BID DUE DATE:**    **DAY, DATE**, no later than **TIME**.

## PREVAILING WAGES:

This work is considered a Public Work and therefore the Contractor is subject to pay his employees not less than the “prevailing rate of wages” as set forth by the Washington Department of Labor and Industries. Bidders are advised to consider this charge when tabulating bids.

It is the intent of Skagit County to award a contract to the lowest responsive and responsible bidder. Skagit County reserves the right to reject any or all bids, and the right to waive any informalities or irregularities in any bid or in any bidding and to further award the Project to the lowest, responsive, responsible bidder whose bid complies with all of the prescribed formalities, as it best serves the interest of Skagit County. After the date and hour set for the bids, no bidder may withdraw its bid unless the award of the contract is delayed for a period exceeding forty-five (45) calendar days following the bid date and hour. All bidders agree to be bound by their bids until the expiration of this stated time period.

## CONDITION OF AWARD:

It is the intent of Skagit County to award a contract to the lowest responsive and responsible bidder. The Board of Skagit County Commissioners reserves the right to reject any or all bids for cause and to waive minor irregularities in the bidding.

## EXECUTION OF CONTRACT:

Within ten (10) calendar days after the Award date, the successful Bidder shall return the signed contract, all required insurance certifications required, and any other required documentation as specified in this document. Skagit County may grant up to a maximum of ten (10) additional calendar days after the Award date for return of the documents, provided that Skagit County deems the circumstances warrant it.

**FAILURE TO EXECUTE CONTRACT:**

Failure to return the insurance certification and bond with the signed Contract as required, or failure or refusal to sign the Contract shall result in forfeiture of the proposal bond of this Bidder. If this should occur, the Contracting Agency may then Award the Contract to the second lowest responsible Bidder or reject all remaining bids. If the second lowest responsible Bidder fails to return the required documents as stated above within the time provided after Award, the Contract may then be awarded successively in a like manner to the remaining lowest responsible Bidders until the above requirements are met or the remaining Proposals are rejected.

**INSURANCE:**

The Contractor shall provide proof of insurance for Commercial General Liability or Professional Liability in the amount of \$1,000,000.00 to cover Contractor's activities during the term of this Contract. Proof of insurance shall be in a form acceptable and approved by the County. Contractors insurance shall be primary. The type of insurance required by this Agreement is marked below.

1) Commercial General Liability Insurance

Certificate Holder – Skagit County

**The Certificate must name the County as additional insured:  
Skagit County, its elected officials, officers and employees  
are named as additional insured.**

Thirty (30) days written notice to the County of cancellation  
of the insurance policy.

2) Professional Liability

Certificate Holder – Skagit County

Thirty (30) days written notice to the County of cancellation  
of the insurance policy

NOTE: No contract shall form until and unless a copy of the Certificate of Insurance, properly completed and in the amount required, is attached hereto.

# DESCRIPTION OF SERVICES

## SCOPE OF WORK:

Skagit County is interested in obtaining the services of a Wastewater Treatment Maintenance Contractor to provide regularly scheduled and on-call services and repairs to the Edison Wastewater Treatment Facility and connections within the Edison Subarea, located in Skagit County.

## ANTICIPATED SERVICES:

The service contract will consist of, but may not be limited to, all phases of temporary or permanent assembly, installation, maintenance, repairs, and other related miscellaneous items. It is anticipated that 90% or more of the work will be performed during the Contractor's normal business hours; however, emergent response time is required within two (2) hours. The following is the Monthly, Quarterly, Yearly and On-Call services anticipated but not limited to:

### Monthly Duties:

- a. Read and record the water meter readings at a minimum of seven (7) commercial food preparation sites per year and the Edison School (readings should be on a regular interval at the same time and same day of the month, with adjustments for weekends). Create a written record and forward to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- b. Pump the Clarifier to the Main Tank at the Wastewater Treatment Facility.
- c. Read and report Lift Station pump readings along with maintaining the Lift Station as needed monthly.
- d. Visually inspect the Pump Station, record the run and cycle times, create a written record and forward to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- e. Report any ponding, loose lids or other visually observed issues at the Residential and Commercial sites. If repairs are needed, billings need to be submitted directly to the Resident or Commercial business. Edison Fund 150 and Skagit County are not responsible for bills incurred for Residential and Commercial businesses.
- f. Attend the monthly Edison Advisory Board meetings to report on maintenance issues and provide recommendations on the best maintenance practices.
- g. Prepare monthly invoices for the fixed monthly billing rate of \$ \_\_\_\_\_ which includes monthly, quarterly and yearly duties.

- h. Create a written and electronic record and provide the copies of results in both written and electronic format to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee along with any grease or Septic Tank Effluent Pump (STEP) tank measurements.
- i. Attend the Edison Advisory Board meetings, once monthly, every third Wednesday of the month at 5pm.

### **Quarterly Tasks**

- a. Visually inspect all tank lids to confirm that they are fastened down and watertight. Any leaking or loose rings, risers, or lids shall be scheduled for correction and repaired.
- b. Record cycles and run hours on running time meters for all pumped tanks and record the information in a written and electronic format that is provided quarterly to the Edison Advisory Board. Inform Edison Advisory Board of unusual or excessive run- time cycle counts or low use sites.
- c. Determine the thickness of the scum and grease layers at a minimum of seven (7) Commercial food preparation sites, along with the Edison School to determine whether pumping is required and provide this information to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- d. Read and record the wastewater usage for those homes north of the Edison Slough by reading the wastewater flowmeter at the Lift Station and provide gallons per day per site usage information.
- e. FOG and BOD sampling of the Commercial sites and the Edison School shall be conducted at a minimum of quarterly. Upon the Edison Advisory Board' s request, additional sampling may be needed. These samples shall be of a grab and composite method.
- f. Create a written and electronic record of the above information and results, and provide copies, in both formats, to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.

**Yearly Duties:**

- a. Using an industry standard measuring device (e.g. sludge judge) to accurately and reliably determine the sludge depth in feet and inches:
- b. Measure the sludge depth in feet and inches, referenced from the bottom of the tank, and scum thickness measured in feet and inches, for Residential Tanks, and document the levels for all residential tanks in both written and electronic format and provide copies of both formats to the Edison Advisory Board.
- c. Measure the sludge depth in feet and inches, referenced from the bottom of the tank, and scum thickness measured in feet and inches, for all Commercial and Edison School (grease and septic), main plant tank and small settling tank, and record the information for all tanks in both a written and an electronic format and provide copies of both formats to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- d. Provide advance notice to each site when the sludge measurements will be taken (via email, regular mail, phone, or other means).
- e. Inspect (all) the pigging ports and Air Release Valves (ARVs), and check that they are operable and free of grease plugs. Inspect collection lines for wear, infiltration, and plugging. Provide written confirmation of inspection to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- f. Create a written and electronic record of the tank results and provide copies of both formats of the results of all above inspections to the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee.
- g. Residential pump and septic tanks, filters and operating parts shall be inspected at a minimum annually on a schedule as determined by the Edison Advisory Board.
- h. Any required maintenance for observed problems shall be submitted to the Edison Advisory Board in writing for approval and repairs shall be scheduled. Maintenance and/or repairs under this section shall be billed directly to the property and/or business owner at the contractor's billing rate(s).

## **On-Call Activities by the Edison Board**

- a) Additional sampling sites, maintenance activities and/or repairs may be requested in writing from time to time by the Edison Advisory Board (and written notice provided to Skagit County) due to activities on site. When this happens, the Contractor shall bill the subject property and/or business owner directly at the contractor's approved billing rate(s). Services include but are not limited to:
- Responding to alarm callouts for the Pump Station or Lift Station.
  - Responding to alarm callouts for Residential or Commercial Businesses.
  - Tank/Lid repairs noted in inspection reports.
  - Pump Station repairs and maintenance.
  - Under house inspections for Residential.
  - Pumping of Commercial and Edison School Tanks along with Grease Traps.
  - Pumping Residential Tanks.
  - Utility Locate for public right of way.
  - Utility Locate for Residential or Commercial.
  - Repairs to components of the sewer connection downstream of the influent flange of the septic or grease interceptor tank.
- b) For any On-Call service work performed, Contractor may bill at a rate of \$\_\_\_\_\_ per hour and submit separate invoicing with proper documentation of the specific services provided, not to exceed more than \$\_\_\_\_\_ per calendar year
- c) On-Call or as needed maintenance invoices must be approved and signed off by the Edison Advisory Board and/or their designee along with the Planning Director or his/her designee before invoices are submitted or paid.
- d) Contractor acknowledges that the Edison Fund 150 nor Skagit County shall not be liable for fees and costs incurred by Businesses and/or Residents for On-Call Services. Refer to Skagit County Code 12.64.

## **Materials for Service**

- Required tools, lids, pumps, valves, seals, etc. purchased for the maintenance of the Edison Subarea Sewer System must be billed at the time of Service.
- Invoicing for Businesses and/or Residents: materials used or purchased to address a maintenance concern must be added to the invoice as part of the cost of service and billed directly to the Businesses and/or Residents at the time of service. Edison Fund 150 and Skagit County are not responsible for bills incurred for Businesses and/or Residents. Refer to Skagit County Code 12.64.