

Edison Subarea Advisory Board

March 2026 Meeting Packet

5. Approval of Meeting Minutes

Edison Subarea Advisory Board

February Meeting Minutes

Date: Wednesday, February 25, 2026

Time: 5:00 – 6:30 pm

Location: Edison Elementary School

1. Call to Order

The meeting was called to order at 5:02 pm, Wednesday, February 25, 2026, by the ESAB Chair, Bernie Alonzo

2. Roll Call /Attendance

Bernie Alonzo, Tom Skinner, Jess Hackler, Darryl Kvistad, Scott Mangold, Lavelle Pilon, Don Erickson.

3. Public Comment

There was no public in attendance

4. Approval of Agenda

Approval of Agenda: Moved - Bernie, 2nd - Scott. All in favor, agenda approved.

5. Approval of Minutes

Approval of Minutes: Moved - Bernie, 2nd - Tom. All in favor, meeting minutes approved.

6. Reports

Administrative Report

During approval of Agenda Bernie mentioned our calendar's added importance in use to develop our draft agenda and distribute with ease and greater regularity. There was discussion about the existing calendar events. Were they accurate by date and if items were missing. Don shared his monthly routine of operation. Bernie asked if there were any forecasted operational needs beyond monthly.

Washington State Department of Ecology, the regulatory agency responsible for the ESCWD permit, required a Rate Calculation to complete annual paperwork with them. Bernie provided Lavelle with the form with numbers based on the rate update submitted to and approved by the SCBOCC in Q4 2025. Lavelle will finalize and submit the forms by Tuesday, April 4.

During the Unfinished Business portion of the agenda, Bernie noted his intention for ESAB organization is to set our annual plan of items to address beyond monthly tasks. The goal is to plan, be proactive, and work through the backlog of items necessary to improve managerial efficiency. Example, fix ADU/futures counts and charges, continue cleaning up/creating our policies to reflect current or proposed operation, regulation, and integration with Skagit Co. code.

Bernie presented a formal schedule for our monthly meetings. Discussion on adding our new (current) meeting schedule to the website. Bernie moved to formally adopt the schedule with corrections. Tom 2nd. Schedule approved for posting with corrections.

Special Projects Report

See County Liaison Report, below.

Maintenance Report

Mike (absent) provided details to present at this meeting to Don. Don relayed the following:

Poor communication from Pump Tech on executing parts delivery. Mike wondering where they are. Kirk at PTech tried to drop off parts but didn't inform of timing.

NOTE: Jess will coordinate delivery with Kirk.

Mike replaced/resealed the risers at the leaking drive over sites including but not limited to the Skinner and Parker residences. Sikaflex was the sealing material used. We may have to wait until next winter to see the impact of the repair. We flowed 17,800 gallons in January '26. Next year, Don can track if I&I monitoring shows improvement after adjusting for differing precipitation amounts year over year.

Operator Report

Dave Matthews, Permit Manager, called seeking the Ground Water Monitoring plan and thinking it was late. Don reminded him it had already been submitted on time.

Eurofins had a 2-week turnaround on samples results.

Only zone 4 was offline during February. The system is averaging 4000 gpd on weekdays.

The line coming from homes to the North, across the slough, is flowing very consistent numbers.

County Liaison Report

Ongoing pump replacement and rebuild project

There's not enough money allocated in the Maintenance contract to cover the costs of the recent bid to complete the pump installation. Based on the amount, County legal suggests a sole source contract for this project. Lavelle will move in this direction.

UV Treatment System Replacement Project

The electrical panel load study indicated that the panel(s) supporting the UV system need to be updated to meet the governing code (NEC). The load study determined we needed a higher capacity buffer on the panel.

Lavelle noted, the electrical upgrades necessary to increase power to the new UV power panel may not be covered by grant funds. No grant money because the power source is in the Bus Barn, owned by the school. The UV project is required to only have Sewer specific use on the panel, per grant req's.

The ESAB is concerned that the electrical system is being considered under a different framework than the grant-eligible portions of the UV replacement project. For example, if the UV system required new concrete trenches or other infrastructure improvements, the improvements would have been grant eligible though located on the school property.

NOTE: Typically, grant funded engineering project include a delineation of grant funding eligible project budget items. Bernie asked Lavelle to check with G&O about the power upgrade's grant eligibility.

NOTE: The final G&O Engineering report is coming next week.

System and Subsystem Ownership and Responsibilities

The question about ownership between the school/school district and the Edison System/county raises the further question:

What is the formal agreement between the school district and the county that stipulates who owns, operates, and is responsible for the system? Is there a lease? A memorandum of understanding? A joint operating agreement?

NOTE: Going forward, the ESAB will add an action item to consider the questions raised by the informal operating arrangement that has functioned since the inception of the system.

UV Treatment System Replacement Required Panel Upgrades

The County received 3 options from Dahl scoping the power upgrades. The ESAB recommends the County authorize Dahl to proceed with the 3rd option, adding the most service. As scope of the improvement increased, price differential decreased, providing better value.

NOTE: The improvement will either be funded by the grant, pending confirmation by G&O and the County grant administrator that the improvement is eligible; or from the Edison System reserve fund.

G&O is wrapping up the engineering. They would like to schedule a meeting beginning of March. To attend: Don, Mike, Jess plus County representatives. They will want to discuss budget adjustments and changes. We should have a lot of budget room due to no deconstruction, no new construction, and no auxiliary disinfection system requirements. (The scope of the UV replacement project was simplified as the project proceeded from grant concept to design because a direct UV equipment replacement is possible with minimum modification to the existing fixed infrastructure.)

Other Notes:

The Department of Health wants to audit the grant at the end of August.

Info: WA State "PARIS" system has all Edison Subarea records that are State Related.

7. Unfinished Business

The Ecology Award plaque was handed off to Lavelle for display near the SCBOCC Hearing room at the County.

The County Outreach Communicator, Jenn, can help us with Website ideas/changes and other ideas too.

Newsletter Draft from Scott due in the March meeting

8. New Business

To address this year:

- Follow-up on ESAB operating procedures, policy, and code with County legal staff
- Board Policy clean up
- Future Connections count and reconciliation with County Treasurer's and Assessor's Offices
- Climate influence and the future longevity of the system

- What is the role of the ESAB

9. Announcements

The next ESAB meeting will be held at the Teacher / Staff Room of the Edison Elementary School at 5:00 pm, Wednesday, March 25, 2026.

10. Adjournment

Motion to adjourn at 6:40 pm. Moved: Bernie, second: Tom, approved: all. Meeting ends.

6. Reports

6A – Administrative Report

Monthly Update

We have a packed agenda today. We will discuss the activities of the month during the specific, dedicated agenda items.

6B – Maintenance Report

Edison Sub-Area
Commercial Site Water Meter Readings

Date: 3-10-26
Technicians: J-J

Business Name	Site#	Meter Reading	Cubic Ft Used
<u>Edison Cafe</u>	<u>20</u>	<u>190.28</u>	<u> </u>
<u>Longhorn Saloon</u>	<u>30</u>	<u>1834.88</u>	<u> </u>
<u>The Bread Farm</u>	<u>31</u>	<u>1631.38</u>	<u> </u>
<u>Tweets</u>	<u>32 North</u>	<u>609.90</u>	<u> </u>
	<u>South</u>	<u>84.44</u>	<u> </u>
<u>Mariposa</u>	<u>36</u>	<u>542.82</u>	<u> </u>
<u>Edison Inn</u>	<u>37</u>	<u>1149.69</u>	<u> </u>
<u>Edison School</u>	<u>73</u>	<u>170239.99</u>	<u> </u>
<u>5821 Cains Crt</u>	<u>38</u>	<u>322.88</u>	<u> </u>

73 - School - Hard to see because ~~condensation~~ ^{condensation} on meter.

Edison Lift Station

Date: 3-10-26

Tech: J-J

Counter # 1

Events 52005

Run Time 3518:43

Counter # 2

Events 51099

Run Time 6920:47

Siemens Totalizer 711142

Comments: Levels normal. T-batts are working
good.

Draw Downs

North Pump ✓ Inches 2.5" Min

South Pump ✓ Inches 3" Min

Site# 74

Leads: J-J

Date: 3-10-26

2# 48

Edison School

Panel Readings

#1

Hr: 120227

Events: 37836

Ordn: /

#2

Hr: 1312-67

Events: 39363

Ordn: /

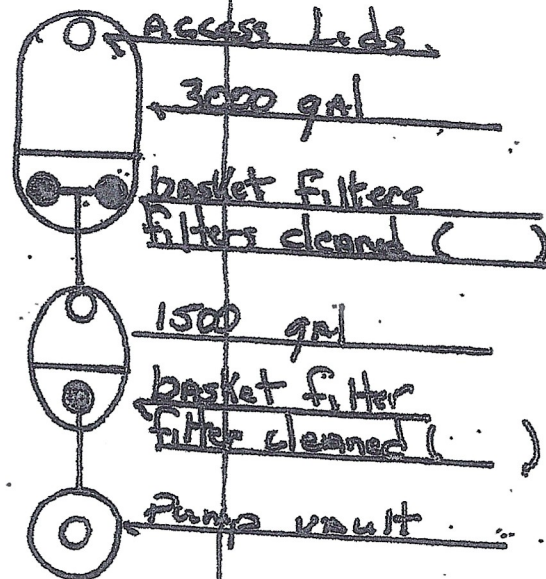
scum:
 sludge:

scum:
 sludge:

scum:
 sludge:

scum:
 sludge:

scum:
 sludge:



Comments:

Panel looks good.

Ran pumps manually - Contactors
sounded normal.

Pump Clarifier

Date / 3-10-26

Tech: J-J

Pumped from small tank to big one.

6C – Operations Report



Wastewater Services, LLC

February 28, 2026

Edison WWTF Operators Report

February 4th, collected monthly samples for lab analysis, the flow was 5844 gallons, and the return rate was 8.3:1. 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.

February 16th, the lab analysis showed a fecal count of <1.8 MPN/100ml and a 60% reduction in TSS and an 86% reduction in BOD. All were found to be within the expected range.

February 26th, cleaned the UV lamps, recirculating ball valve and a visual inspection of both appeared to be functioning correctly. The flow was 6780 gallons, and the return rate was 7.2:1, 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 2/9/26 by the maintenance contractor.

Because of extended periods of heavy rain, high tides, and high ground water table. Which resulted in several drain fields shutting down on high water level alarms, then restarting hours or days later when the water table dropped. As per the permit, S2.A. *"The Permittee must report when drain field zones are shut off. The Permittee must include the date, amount of time, and drain field number and zone in the notes section in the monthly DMR."* This was reported on the February DMR.

Sincerely,

Don Erickson

WWTP Operator
360-672-5378

6D – Special Projects Report

SKAGIT COUNTY EDISON CLEAN WATER DISTRICT

SKAGIT COUNTY

WASHINGTON



WASTEWATER TREATMENT PLANT ULTRAVIOLET DISINFECTION SYSTEM REPLACEMENT ENGINEERING REPORT

**G&O #25476
FEBRUARY 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
FEBRUARY 2026



Gray & Osborne, Inc.
CONSULTING ENGINEERS

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CHAPTER 1

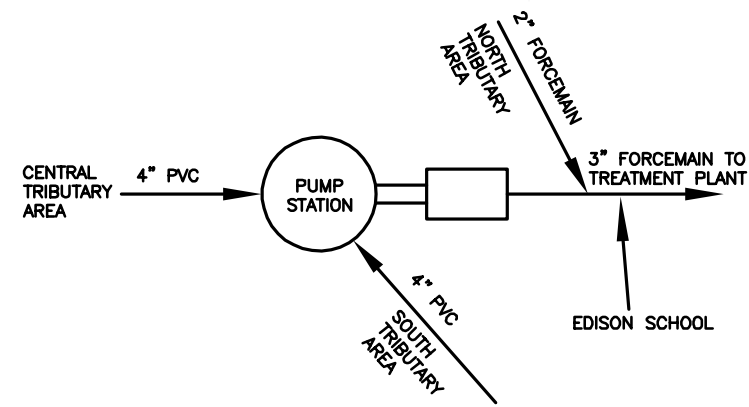
INTRODUCTION

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.

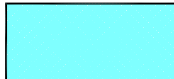
Since this project only includes replacement of the existing UV disinfection system, this project could be interpreted to include maintenance, only. However, because State funding is involved in financing this project, this Engineering Report has been prepared to be in conformance with the State of Washington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

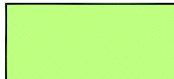
The Owner of the facilities is Skagit County Planning & Development Services, 1800 Continental Place, Mount Vernon, Washington 98273, Telephone; 360-416-1320. The authorized representative is Erin Langley, Senior Natural Resource Planner, Telephone: (360) 416-1335.

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 (BOD₅) 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 Dry Weather Flow ⁽¹⁾	Annual Average Flow (AAF)	Maximum Monthly Flow (MMF)	Peak Day Flow (PDF)	Peak Hour Flow ⁽²⁾ (PHF)
WWTF Influent (gpd)	5,539	6,611	9,177	28,080	36,504
I/I ⁽³⁾ (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) ⁽¹⁾	Annual Average Flow (gpd)	Maximum Monthly Flow (gpd)	Peak Day Flow (gpd)	Peak Hour Flow (gpd) ⁽²⁾	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 3-3, the daily permit limit of 24,000 gpd was exceeded several times during the 2021/2022 winter season.

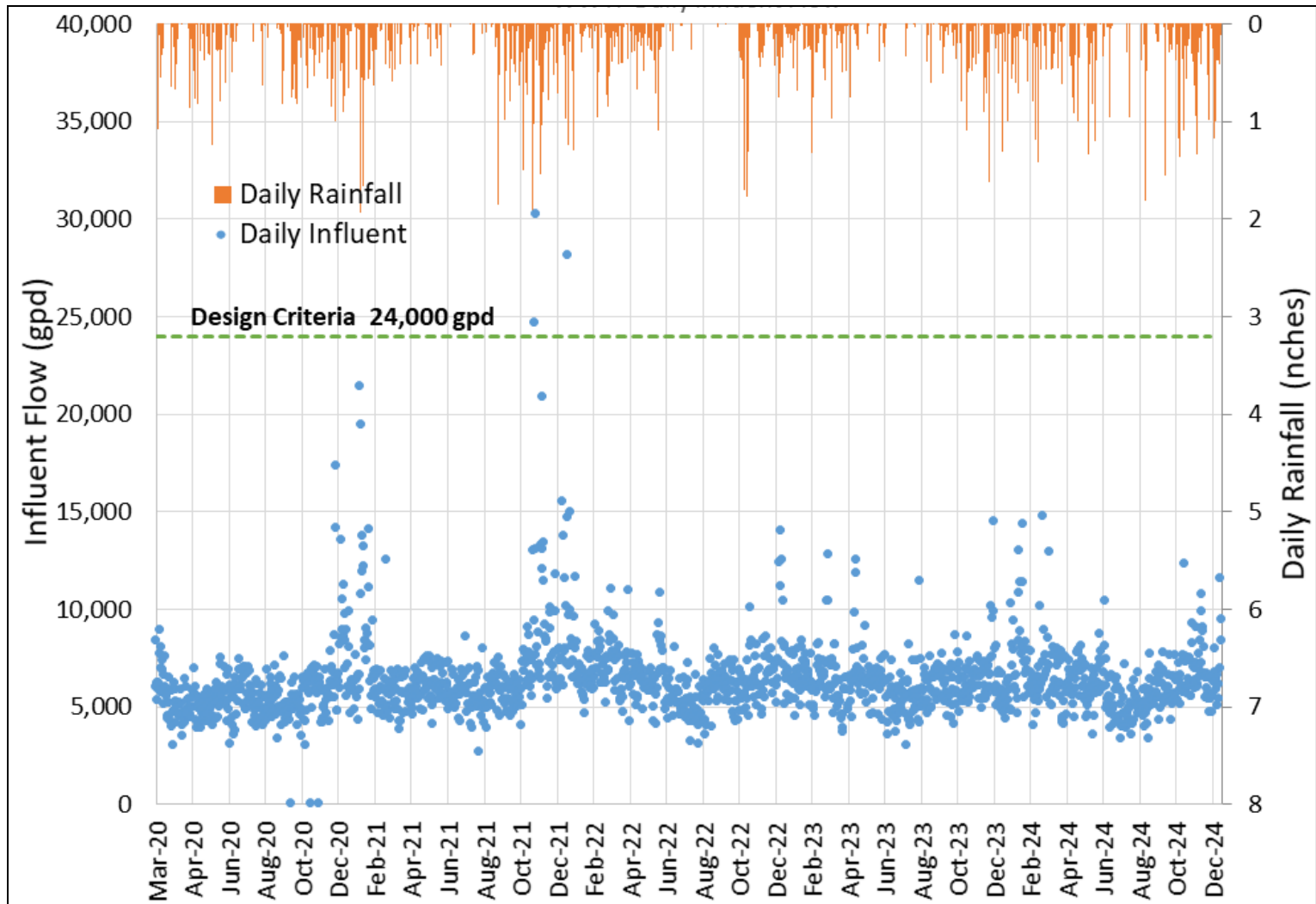


FIGURE 3-1

WWTF Daily Influent Flow

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

Year	Influent						Effluent					
	Avg. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (lb/d)	Avg. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (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. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (lb/d)	Avg. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (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. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (lb/d)	Avg. Monthly Flow (gpd)	Max. Daily Flow (gpd)	BOD ₅ (mg/L)	BOD ₅ (lb/d)	TSS (mg/L)	TSS (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
Average	6,317	10,306	36	2.02	29	1.53	5,495	9,409	4	0.18	8	0.37
Maximum	10,180	30,228	283	17.40	94	5.20	9,479	36,869	17	0.82	48	1.91
Minimum	4,823	6,396	5	0.18	6	0.36	4,043	4,910	1	0.04	0	0.01

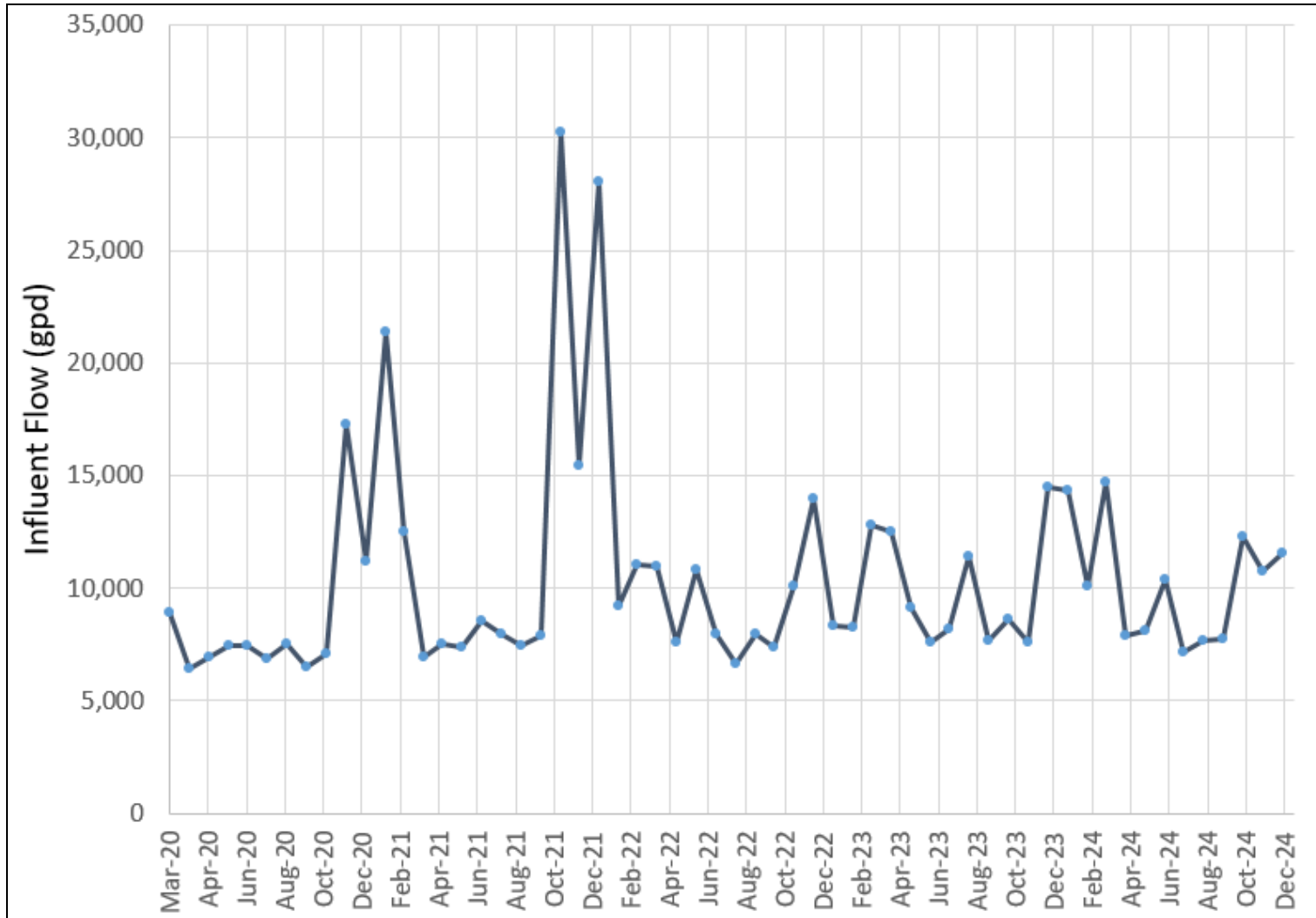


FIGURE 3-2

WWTF Monthly Maximum Daily Influent Flow

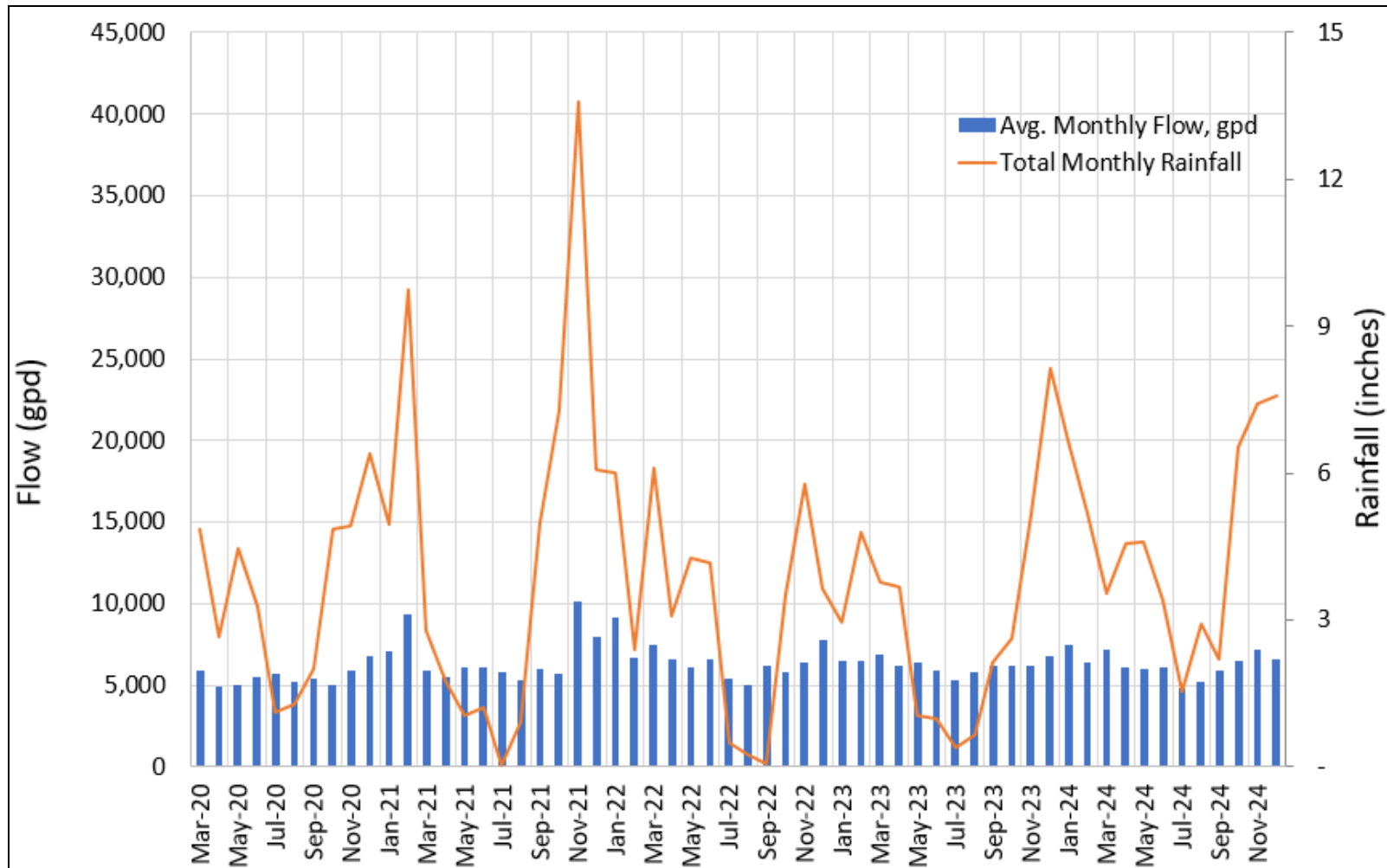


FIGURE 3-3

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.

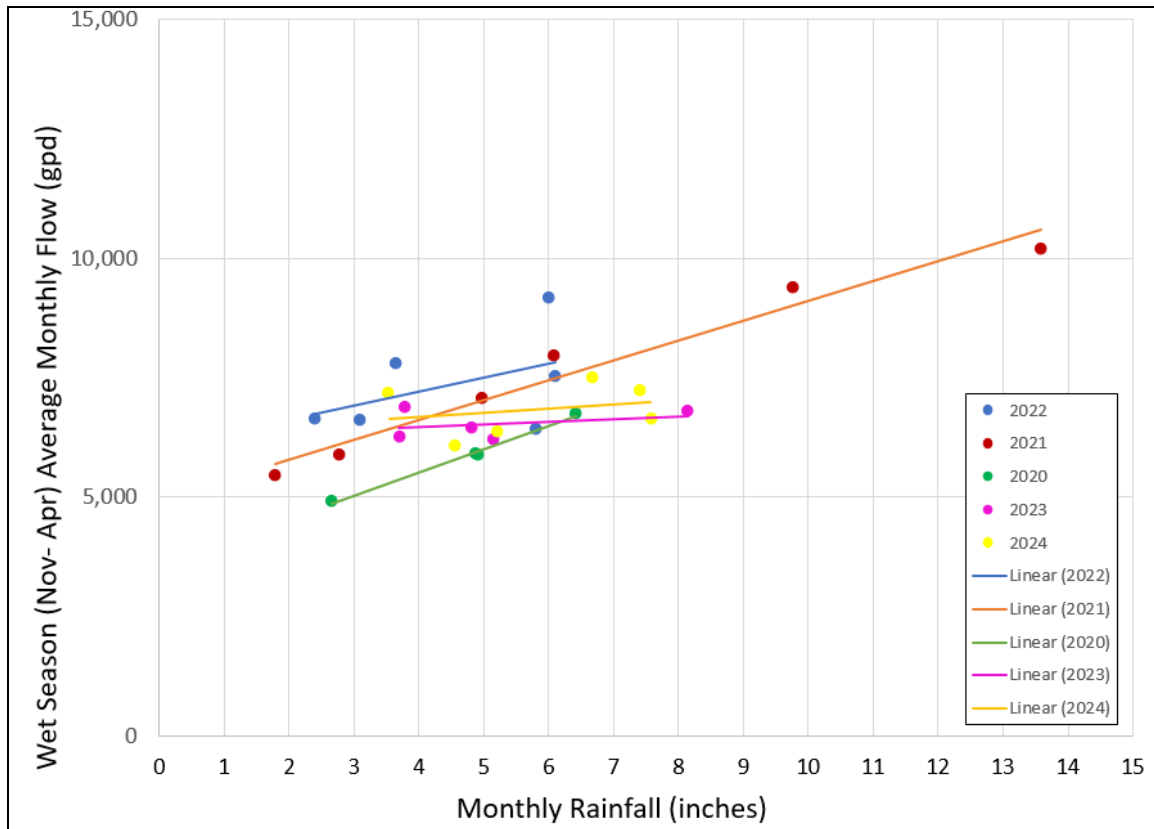


FIGURE 3-4

**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.

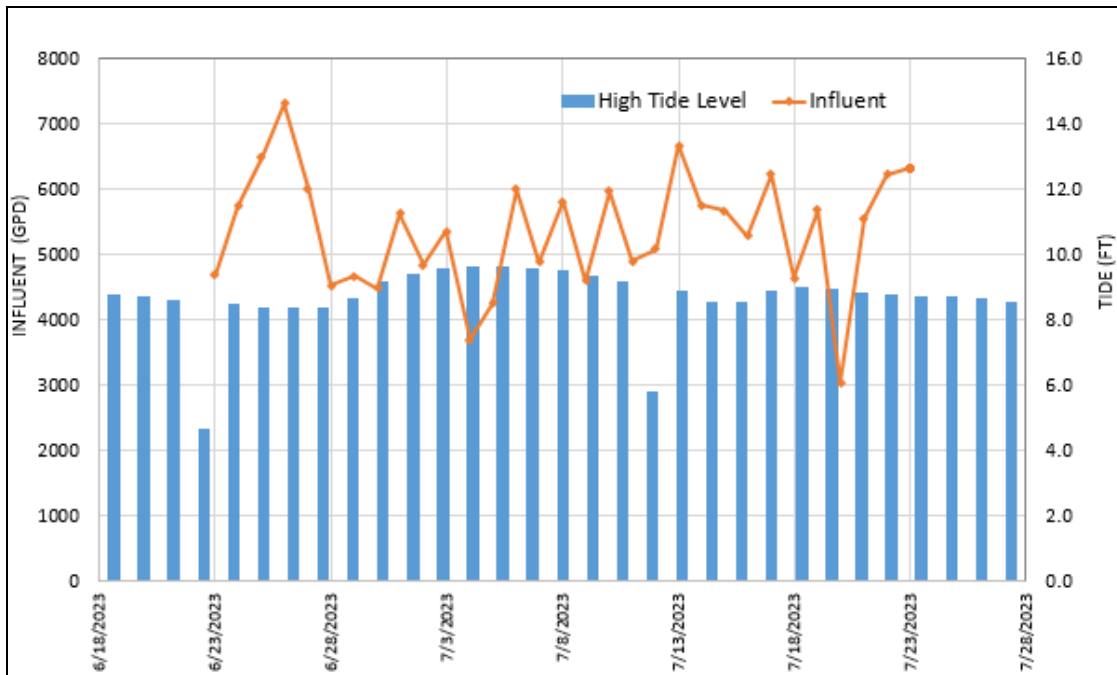


FIGURE 3-5

Tide vs. Flow During Dry Weather Period in 2023

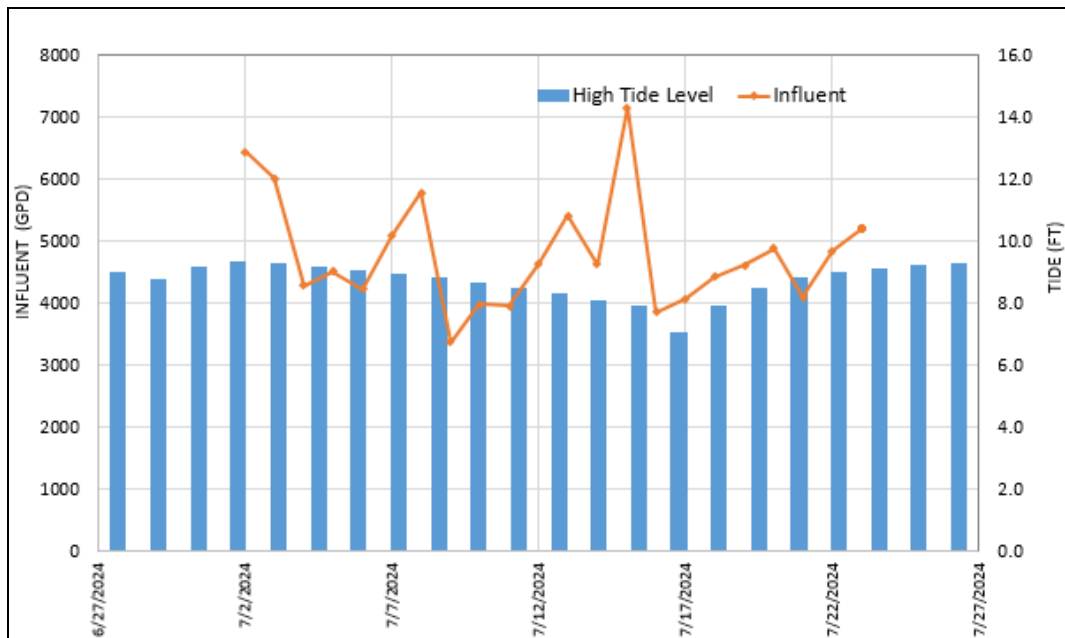
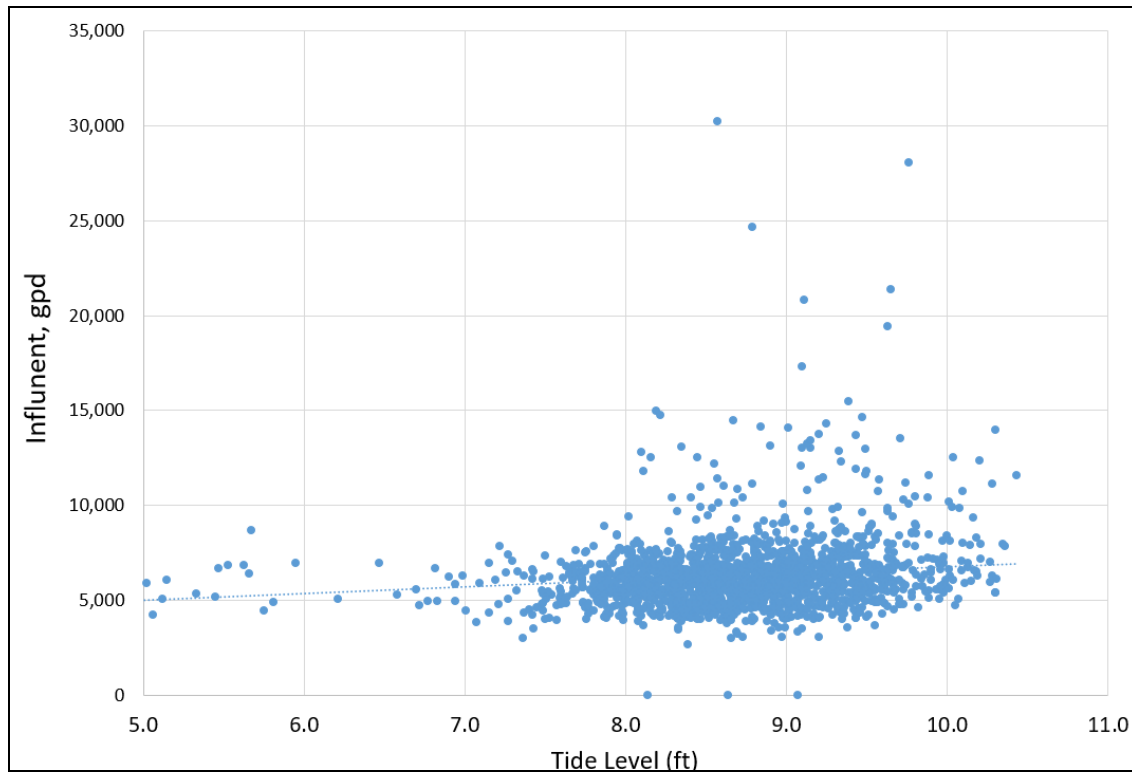


FIGURE 3-6

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.

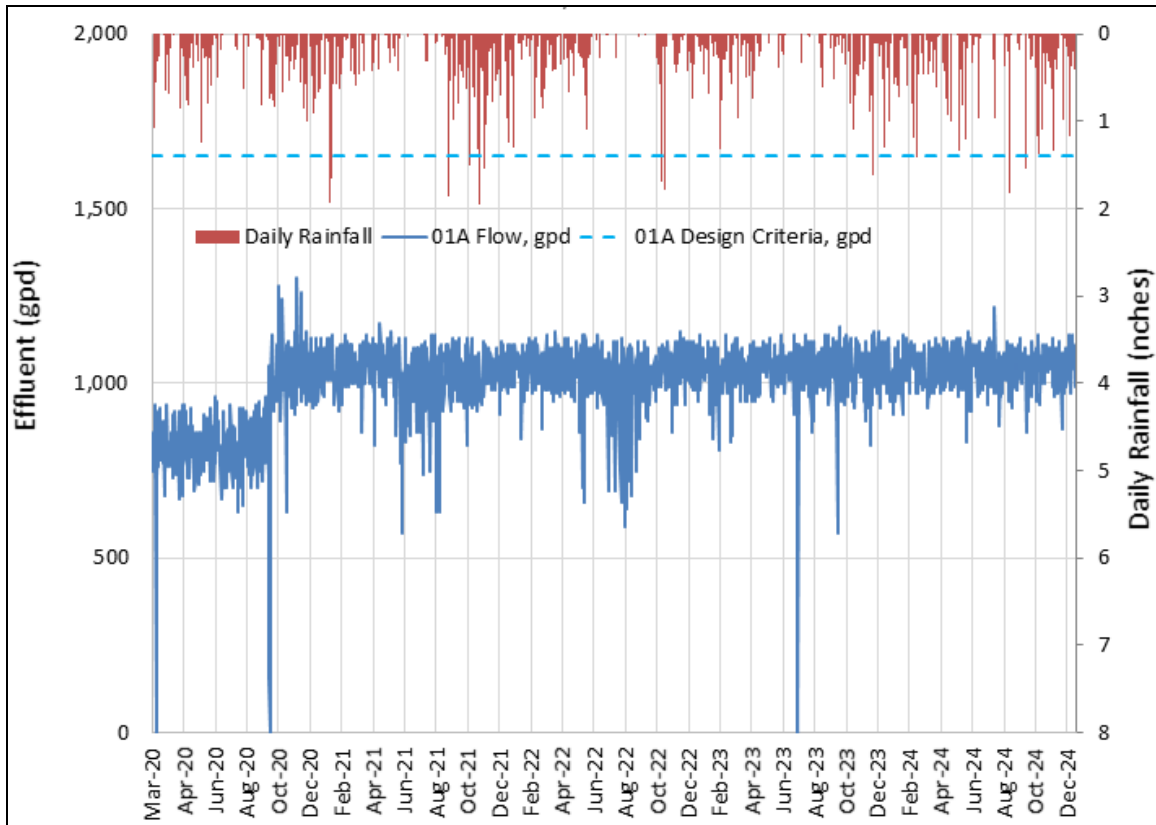


FIGURE 3-8

Effluent Flow to Drainfield 1

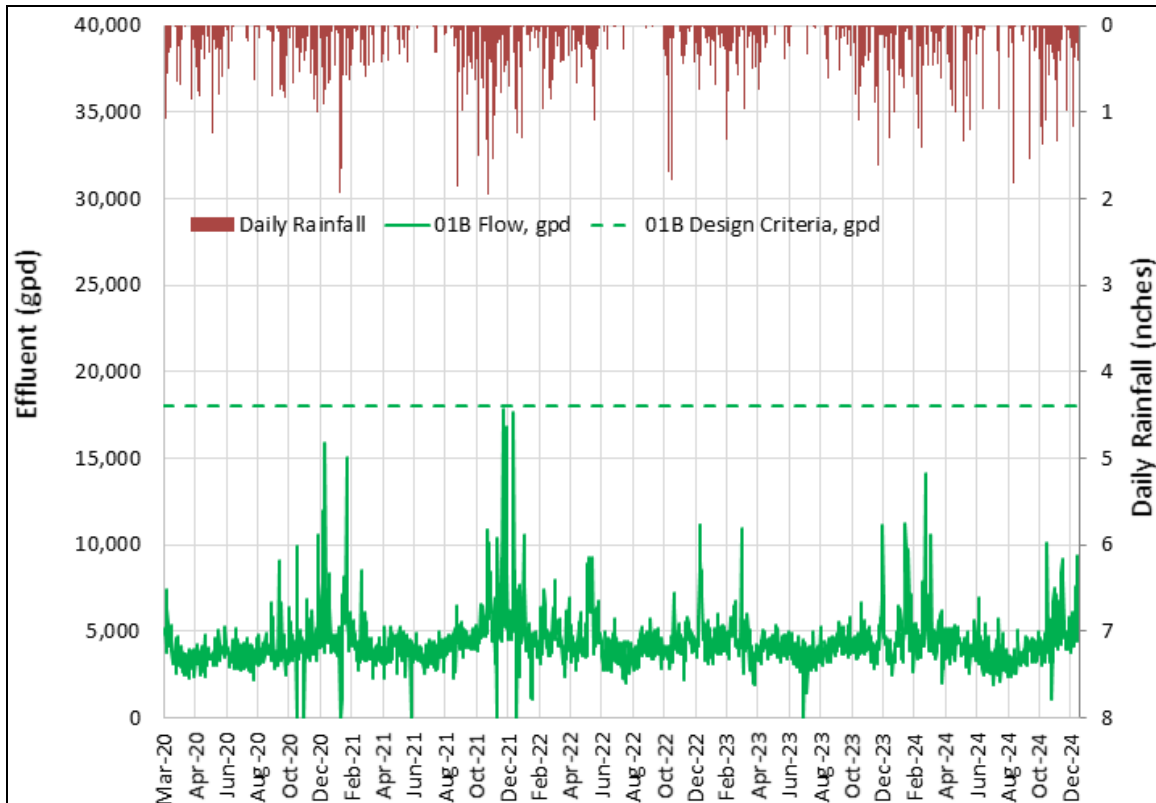


FIGURE 3-9

Effluent Flow to Drainfield 2

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

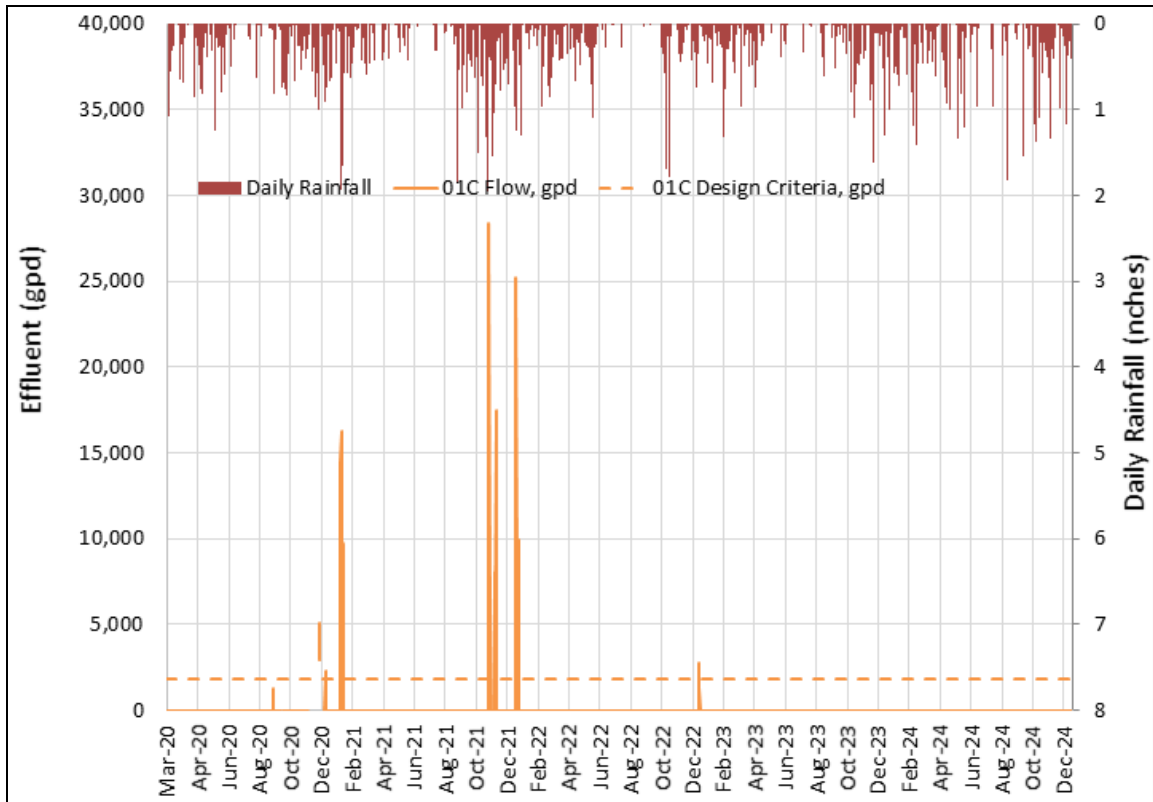


FIGURE 3-10

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.

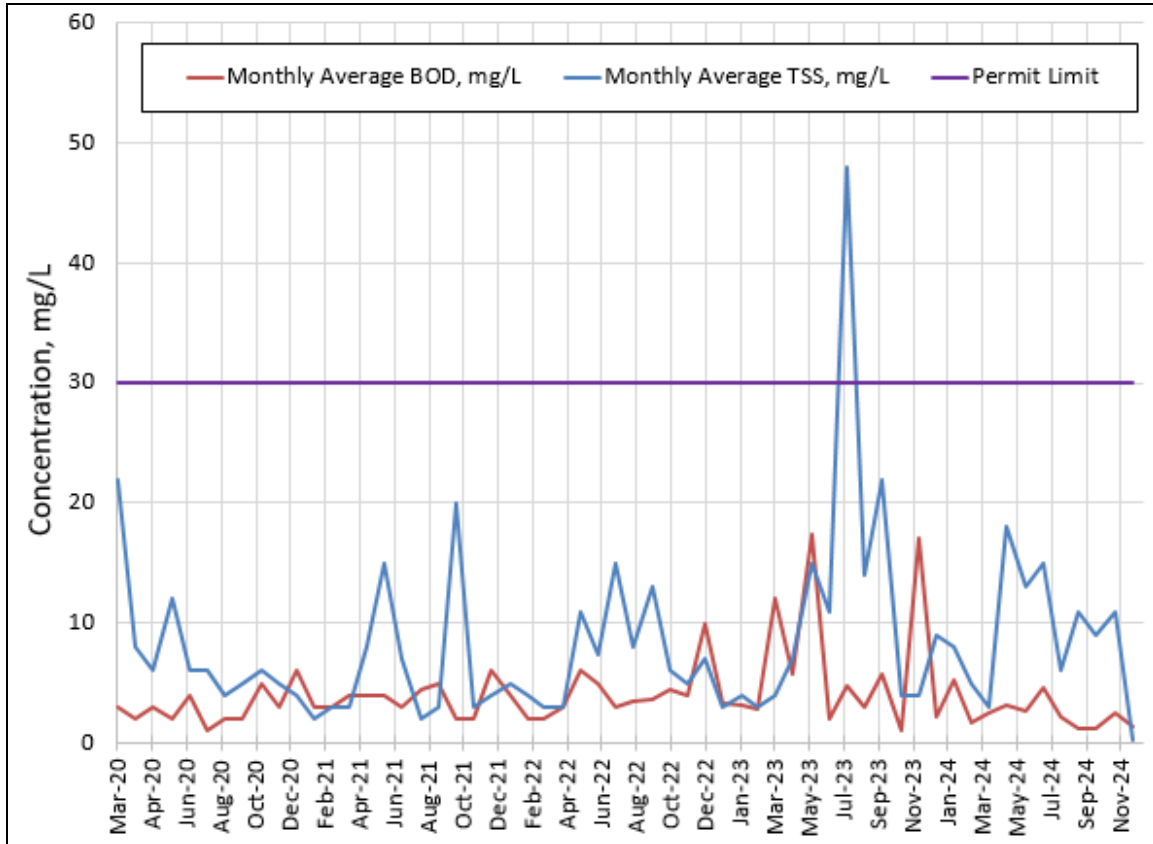


FIGURE 3-11

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.

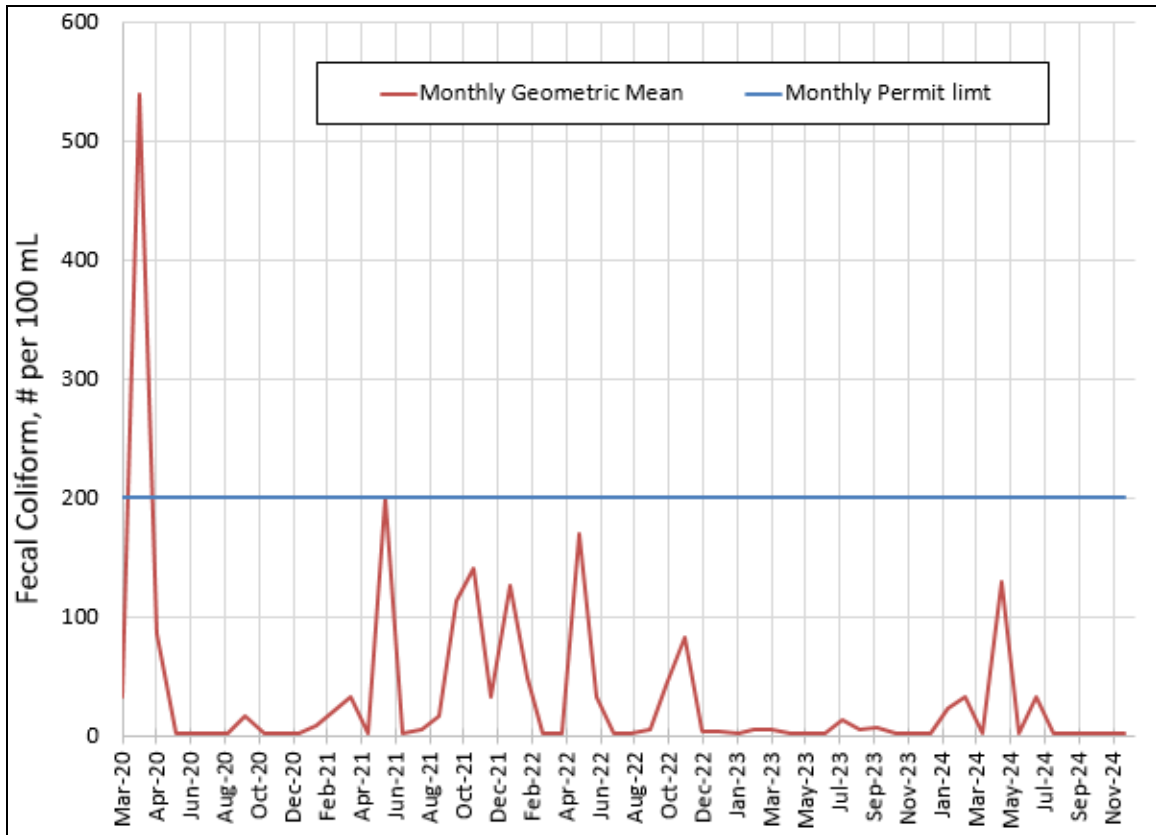


FIGURE 3-12

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**

Description	BOD (mg/L)	TSS (mg/L)	Fecal Coliform (#/100 ml)⁽¹⁾	pH
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	2.7	8.0	61.8	5.7 – 7.1
2021 Average	3.9	6.2	52.1	6.4 – 7.3
2022 Average	3.8	7.3	43.5	6.1 – 7.0
2023 Average	6.5	11.6	4.1	6.1 – 6.9
2024 Average	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**

	2023 – 2024 Influent Flows				
	Average Dry Weather Flow	Annual Average Flow	Maximum Monthly Flow	Peak Day Flow	Peak Hour Flow
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

Date	Time	Flow (gpd)	UVT (%)
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 ⁽¹⁾

- (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, three alternatives were considered for the upgrade of the electrical system for the UV system to be in compliance with current electrical codes. Per National Electrical Code (NEC) 220.87, the peak 15-minute loading of the panelboard recorded over a 30-day period multiplied by 1.25, is added to the proposed additional load to be added to the panelboard. The resulting sum cannot exceed the capacity of the panelboard or the feeders to it. 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. We also discovered that panelboard LB does not appear to have a branch circuit breaker protecting the feeder to the ATS, and so would recommend installing a circuit breaker in it to protect the feeder.

The three alternatives are:

1. Move loads off of the existing panelboard LXB. This would be any loads now on the panel that do not require generator backup. The total estimated cost for this option is \$14,000.
2. Replace the existing panelboard LXB 100A main circuit breaker with 125A. The panelboard would still have only about 1 percent additional capacity. Install a 125A branch circuit breaker in panelboard LB. Replace 100A with 125A feeder between panelboard LB and the ATS. Replace 100A with 125A feeder between generator disconnect and the ATS. Replace 100A with 125A feeder between the ATS and panelboard LXB. The total estimated cost for this option is \$15,000.
3. 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. The total estimated cost for this option is \$18,000.

Because the cost difference between the three alternative is relatively small, it is recommended that Alternative 3 be implemented as this alternative will provide the highest extra capacity for Panelboard LXB that can be achieved without impacting the automatic transfer switch and the transformer disconnect.

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

Permit Types	Likely Needed?	Notes
State Permits and Applications		
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 March 2026. Plans and specifications submitted before bid.
Electrical Permit (L&I)	Yes	Contractor to apply
County Permits and Applications		
Shoreline Conditional Use, and Shoreline Substantial Development or Declaration of Exemption	No	March 2026 (Exemption expected per SCC 14.26; it is not in Shoreline Jurisdiction)
Skagit County Flood Permitting	No	Likely Exempt unless modification/expansion of the UV channel is required

CHAPTER 6

SCHEDULE

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
- February 2026 Final Engineering Report Issued
- April 2026 90 Percent Plans/Specifications and Stakeholder Review
- May 2026 Advertise Project
- July 2026 Award Project
- January 2027 Construction Complete

Project completion is later than shown in the draft Engineering Report due to the additional time necessary for the Electrical Field Verification and Load Study and incorporation of comments from regulatory and funding agencies.

CHAPTER 7

COST ESTIMATE

A construction cost estimate is provided in Table 7-1. The estimate reflects the significant inflation recently observed, impacted by tariffs, particularly with electrical equipment and instrumentation.

A temporary disinfection system (anticipated to be chlorine-based) has been included in the cost estimate. It is possible that the project can be constructed without this system if effluent can be stored in tanks during construction. Also, the County may be able to reduce the cost if they provided the temporary disinfection system, instead of the Contractor.

TABLE 7-1

Edison WWTF UV System Replacement Estimated Construction Cost

No.	Description	Quantity		Price	Amount
1	Mobilization	1	LS	\$10,000	\$10,000
2	Equipment Acquisition	1	LS	\$39,000	\$39,000
3	Equipment Installation	1	LS	\$20,000	\$20,000
4	Demolition	1	LS	\$10,000	\$10,000
5	Temporary Disinfection System	1	LS	\$10,000	\$10,000
6	Electrical Work	1	LS	\$48,000	\$48,000

Subtotal..... \$137,000
Contingencies (25%) \$34,250
Subtotal..... \$171,250
Washington State Sales Tax (8.6%)..... \$14,700
TOTAL ESTIMATED CONSTRUCTION COST \$185,950

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/cm².

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

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 20th 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: ≤ 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/cm², 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/cm².

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.

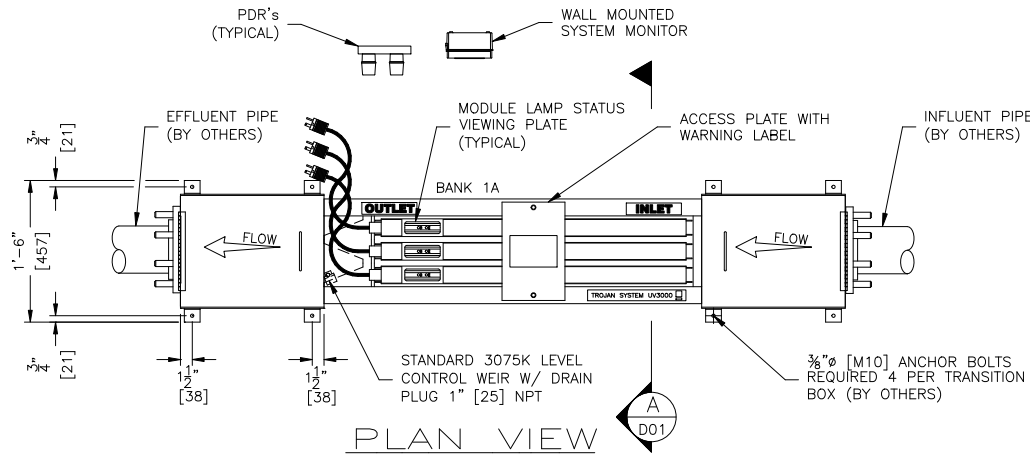
TROJAN UV3000™ PTP

EQUIPMENT INTERCONNECTIONS

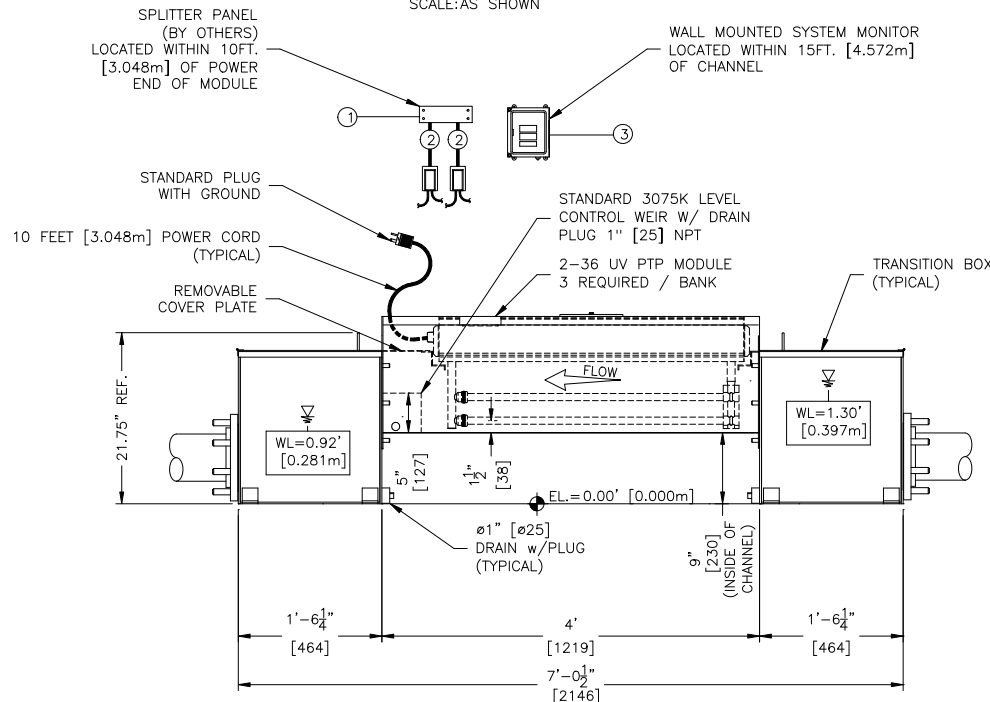
No.	DESCRIPTION	FROM	TO
1	SPLITTER PANEL POWER SUPPLY 120V, 1 PHASE, 2 WIRE, ACTUAL DRAW 4.8 AMPS / SPLITTER PANEL	DISTRIBUTION PANEL (DP) (NOT SHOWN) (BY OTHERS)	SPLITTER PANEL (BY OTHERS)
2	POWER DISTRIBUTION RECEPTACLE (PDR) POWER SUPPLY 120V, 1 PHASE, 2 WIRE, ACTUAL DRAW 3.2 AMPS / PDR	SPLITTER PANEL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

NOTES:

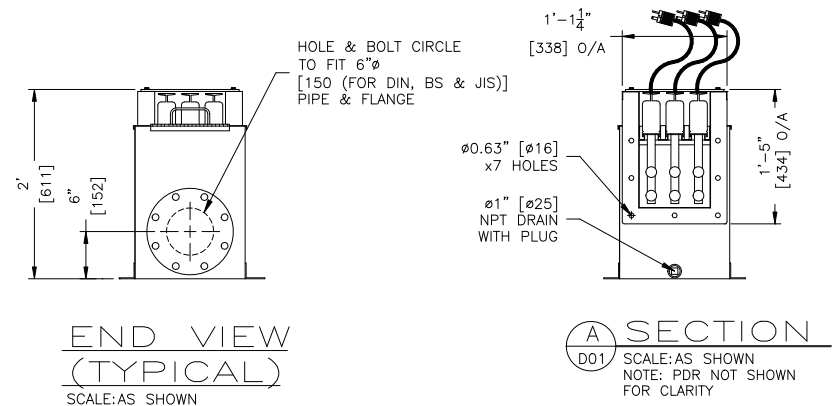
- : DO NOT SLOPE CHANNEL FLOOR.
- : CHANNEL WIDTH & DEPTH MUST BE KEPT WITHIN A TOLERANCE OF + OR - ¼" [6].
- : ANCHOR BOLTS ARE NOT SUPPLIED BY TROJAN TECHNOLOGIES.
- : BOLTS, WASHERS & NUTS FOR CONNECTION OF CHANNEL TO TRANSITION BOXES ARE PROVIDED BY TROJAN TECHNOLOGIES.
- : SYSTEM CONDUIT, WIRING, 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.



PLAN VIEW
SCALE:AS SHOWN



FRONT VIEW
SCALE:AS SHOWN



END VIEW
(TYPICAL)
SCALE:AS SHOWN

SECTION
D01 SCALE:AS SHOWN
NOTE: PDR NOT SHOWN
FOR CLARITY

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

CONFIDENTIALITY NOTICE

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DESCRIPTION:
LAYOUT, UV3000PTP-UV3075K 1 CHANNEL
1 BANK 2 LAMPS WEIR

DRAWN BY : LZ/JMM/SPM
CHECKED BY : SAH
APPROVED BY : CAP
SCALE (8 1/2"x11") NOT TO SCALE

DATE : 12JUN21
DATE : 12JUN22
DATE : 12JUN22
LOG NUMBER : N/A

STANDARD DRAWING NO.
3M0509

REFERENCE NO.
N/A

DWG NO. REV.
D01 D

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/cm² 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

EDISON SUBAREA

Edison Rev and Exp vs Budget

Report Format 012

Period 2 ending February 28, 2026

Transaction status 1
Rounding to Whole Dollars

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

		Current	YTD	2025	Amount	Percent
		Actuals	Actual	BUDGET	Available	Available
Div 000	EDISON CLEAN WTR DIST. SUBAREA					
Typ 003	REVENUES					
150 382001870	ECWDS OPERATING ASSES	12,813-	12,813-	115,000-	102,187-	88.9
150 382006111	ECWDS INVESTMENT INTE	1,804-	1,804-	12,000-	10,196-	85.0
		-----	-----	-----	-----	-----
Typ 003	REVENUES	14,616-	14,616-	127,000-	112,384-	88.5
Typ 005	EXPENDITURES					
150 582001100	ECWDS SALARIES AND WA	304	304	7,898	7,594	96.2
150 582002100	ECWDS SOCIAL SECURITY	12	12	604	592	97.9
150 582002200	ECWDS RETIREMENT	9	9	719	710	98.7
150 582002300	ECWDS LABOR AND INDUS	1	1	20	19	96.4
150 582002400	ECWDS MEDICAL	36	36	1,792	1,756	98.0
150 582002900	ECWDS UNEMPLOYMENT CO	2	2	89	87	97.6
150 582003510	ECWDS SMALL TOOLS & M			5,000	5,000	100.0
150 582004110	ECWDS PROFESSIONAL SE	9,238	9,238	40,000	30,762	76.9
150 582004128	ECWDS PROF SVCS - OTH	23	23		23-	
150 582004810	ECWDS REPAIRS AND MAI	4,654	4,654	10,000	5,346	53.5
150 582004910	ECWDS MISCELLANEOUS			5,000	5,000	100.0
150 582006410	ECWDS EQUIPMENT > \$5,			30,000	30,000	100.0
		-----	-----	-----	-----	-----
Typ 005	EXPENDITURES	14,280	14,280	101,122	86,842	85.9

DOH GRANT

Edison Rev and Exp vs Budget

Report Format 012

Period 2 ending February 28, 2026

Transaction status 1
Rounding to Whole Dollars

Fnd 150	EDISON CLEAN WTR DIST. SUBA Dpt 0082	EDISON CLEAN WTR DIST. SUBA					
			Current	YTD	2025	Amount	Percent
			Actuals	Actual	BUDGET	Available	Available
Div 001	PUGET SOUND ACTION AGENDA						
Typ 003	REVENUES						
150 382016612	PSAA EPA-PUGET SOUND				181,180-	181,180-	100.0
			-----	-----	-----	-----	-----
Typ 003	REVENUES				181,180-	181,180-	100.0
Typ 005	EXPENDITURES						
150 582011100	PSAA SALARIES AND WAG	253	253	3,000	2,747	91.6	
150 582012100	PSAA SOCIAL SECURITY	19	19		19-		
150 582012200	PSAA RETIREMENT	14	14		14-		
150 582012300	PSAA LABOR AND INDUST	1	1		1-		
150 582012400	PSAA MEDICAL	67	67		67-		
150 582012900	PSAA UNEMPLOYMENT COM	3	3	6	3	47.5	
150 582014110	PSAA PROFESSIONAL SER			110,000	110,000	100.0	
150 582014310	PSAA TRAVEL			174	174	100.0	
150 582016410	PSAA EQUIPMENT > \$5,0			68,000	68,000	100.0	
			-----	-----	-----	-----	-----
Typ 005	EXPENDITURES	357	357	181,180	180,823	99.8	
			-----	-----	-----	-----	-----
Fnd 150	EDISON CLEAN WTR DIST. SUBAREA	20	20	25,878-	25,898-	100.1	
			-----	-----	-----	-----	-----
	Report Final Totals	20	20	25,878-	25,898-	100.1	
			-----	-----	-----	-----	-----



Transaction Detail Report - Actuals Status 1

26/03/18-10:33

Skagit County - (FY26 PROD Dataset)

March 18 2026 Page 1

GL789

EDISON SUBAREA

Transaction Detail Report - Actuals

Status 1

For Date Range 02/01/2026 to 02/28/2026

SS	Ident	Batch	Sheet	Seq	Stat	Per	Date	Description	Trans Amount	Bal Forward
150	582001100	ECWDS SALARIES AND WAGES								126.60
	PA 7740	S R	PRL 112130	32	1	2	2 02/15/26	LANGLEY, ERIN	50.55	
	PA 8108	S R	PRL 112253	73	1	2	2 02/28/26	PILON, LAVELLE	126.60	
			Period	Total	02				177.15	303.75
150	582002100	ECWDS SOCIAL SECURITY								0.00
	PA	S R	PRL 112107	80000	2466	2	2 02/10/26	ECWDS SOCIAL SECURITY	8.75	
	PA	S R	PRL 112234	80000	2305	2	2 02/25/26	ECWDS SOCIAL SECURITY	3.74	
			Period	Total	02				12.49	12.49
150	582002200	ECWDS RETIREMENT								0.00
	PA	S R	PRL 112107	80000	2467	2	2 02/10/26	ECWDS RETIREMENT	6.62	
	PA	S R	PRL 112234	80000	2306	2	2 02/25/26	ECWDS RETIREMENT	2.82	
			Period	Total	02				9.44	9.44
150	582002300	ECWDS LABOR AND INDUSTRIES								0.00
	PA	S R	PRL 112107	80000	2468	2	2 02/10/26	ECWDS LABOR AND INDUSTRIES	0.58	
	PA	S R	PRL 112234	80000	2307	2	2 02/25/26	ECWDS LABOR AND INDUSTRIES	0.14	
			Period	Total	02				0.72	0.72
150	582002400	ECWDS MEDICAL								0.00
	PA	S R	PRL 112107	80000	2469	2	2 02/10/26	ECWDS MEDICAL	24.71	
	PA	S R	PRL 112234	80000	2308	2	2 02/25/26	ECWDS MEDICAL	11.52	
			Period	Total	02				36.23	36.23
150	582002900	ECWDS UNEMPLOYMENT COMPENSATIO								0.00
	PA	S R	PRL 112107	80000	2470	2	2 02/10/26	ECWDS UNEMPLOYMENT COMPENSATIO	1.57	
	PA	S R	PRL 112234	80000	2309	2	2 02/25/26	ECWDS UNEMPLOYMENT COMPENSATIO	0.60	
			Period	Total	02				2.17	2.17
150	582004110	ECWDS PROFESSIONAL SERVICES								4557.00
	AP 613633 35287	BAYHILL WAS A/P	157756	1	1	2	2 02/11/26	BAYHILLWASTE C20250066 PO# PL6	870.00	
	AP 613696 35249	EUROFINS EN A/P	157756	2	1	2	2 02/11/26	EUROFINS C20230430 A20250164	124.00	
	AP 613887 10947	THE DRAIN D A/P	157756	3	1	2	2 02/11/26	DRAIN DOCTOR C20250636 PO# PL2	3687.00	
			Period	Total	02				4681.00	9238.00
150	582004128	ECWDS PROF SVCS - OTHER								11.27
	GL 046901	INI 104690		1	427	2	2 02/01/26	SymPro Inv # 15000 Earnings A1	11.31	
			Period	Total	02				11.31	22.58
150	582004810	ECWDS REPAIRS AND MAINTENANCE								2210.00
	AP 613887 10947	THE DRAIN D A/P	157756	4	1	2	2 02/11/26	DRAIN DOCTOR C20250636 PO# PL2	2444.42	
			Period	Total	02				2444.42	4654.42
Total Debits :		7,374.93	Total Credits :		0.00					

EDISON CONTRACT TRACKING 2026

ON-CALL SERVICES

Vendor	BAYHILL WASTEWATER	NOTES	BAYHILL WASTEWATER	NOTES
Contract #	C20250066		C20250066	
Amendment #	N/A		N/A	
Contract End Date	March 1, 2026		March 1, 2026	
Vendor #	35287		35287	
GL Code	150.582.00.4110		150.582.00.4810	
	150.582.00.4810		150.582.01.4110 (Grant)	
	150.582.01.4110 (Grant)			
PO #	PL 6625		PL 6625	
Contract Amount	\$36,500.00	\$0.00	\$2,000.00	
SPENT THRU 2025	\$9,425.00	N/A	\$0.00	N/A
January	\$870.00	INV 2026-1 Monthly Rate	\$0.00	N/A
February	\$870.00	INV 2026-2 Monthly Rate	\$0.00	N/A
March	\$870.00	INV 2026-3 Monthly Rate	\$0.00	N/A
April				
May				
June				
July				
August				
Septemebr				
October				
November				
December				
Spent to Date:	\$12,035	\$0.00	\$0.00	\$0.00
Remaining Balance:	\$24,465.00	\$0.00	\$2,000.00	\$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
\$1,860	\$0.00	\$3,069.00	\$0.00
\$19,140.00	\$0.00	\$36,931.00	\$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
\$1,860	\$0.00	\$3,069.00	\$0.00
\$19,140.00	\$0.00	\$36,931.00	\$0.00

THE DRAIN DOCTOR	NOTES	THE DRAIN DOCTOR	NOTES
C20250636		C20250636	
January 1, 2027		46388	
10947		10947	
150.582.00.4110		150.582.00.4810	
150.582.00.4810			
PL 2536		PL 2536	
\$44,399.00	\$0.00	\$5,600.00	\$0.00
\$0.00	N/A	\$0.00	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
\$11,061.00	\$0.00	\$2,794.42	
\$33,338.00	\$0.00	\$2,805.58	

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
April 30, 2026		December 31, 2028		N/A
C0382		10841		13596
150.582.01.4110		150.582.00.4110		150.582.00.4910
PL 5525		N/A		N/A
\$118,900.00	\$0.00	\$15,000.00		\$20.00
\$45,768.37	N/A	\$0.00	N/A	\$0.00
\$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
\$60,313.66	\$0.00	\$0.00	\$0.00	\$1.35
\$58,586.34	\$0.00	\$15,000.00	\$0.00	\$18.65

SINGLE PURCHASE		PER YEAR	TOTAL AWARDS
PUMP TECH	ECOLOGY		
N/A	N/A		
N/A	N/A		
N/A	N/A		
12778	32612		
150.582.00.6410	150.582.00.4910		
FULFILLED	PERMIT		
\$5,916.54	\$700.00	\$290,035.54	
\$0.00	\$0.00	\$56,986.37	
\$0.00	\$0.00	\$6,891.00	
\$5,916.54	\$0.00	\$16,370.43	
\$0.00		\$16,803.17	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$0.00		\$0.00	
\$5,916.54	\$0.00	\$97,050.97	
\$0.00	\$700.00	\$192,984.57	

7 – Unfinished Business

Annual Agenda Development

- a. Review and discuss draft newsletter
- b. Review and discuss draft web site update outline
- c. Succession planning for board members
- d. Develop subcommittee for reviewing outstanding sewer shares (Future Connections)

Edison Subarea Clean Water District, Skagit County
Edison Advisory Subarea Board Newsletter - Town Sewer System
July XX, 2026

MEETINGS

We hold Board Meetings, open to the public, at 5:00pm, the 4th Wednesday of each month, at Edison Elementary in the Teachers' Lounge. The November and December meetings are held on the 3rd Wednesday of the month at the same time and location.

Sewer Board Openings

Edison Subarea Advisory Board positions are up for appointment in August, 2026. This is a low impact way for you to contribute to our community. **Board should discuss how to complete.**

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 examination, 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.

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.

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

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.

By pushing additional matter into the lines and to the plant, there is greater risk of clogging filters as well as the extra work and higher oxygen demand of processing at the treatment plant.

Wipe your plates and pans before washing....

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.

Skagit County's Department of Environmental Health provides helpful resources and information for maintaining a healthy septic system. They can be found here:
<https://www.skagitcounty.net/Departments/HealthEnvironmental/septic101.htm>

Skagit County

Operation and Maintenance

Our pump rebuilding rotation literally went off-track. 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 Drain Doctor intends to seek a local machine shop to produce this component locally and at a better price for future pump installations. Size and brand are the same for all pumps.

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 an award from the Department of Ecology for operating the system with no discharge exceedances. This was nice recognition and captured the interests of our County Commissioners who highlighted our work during a recent hearing session. They will be hanging the plaque near the hearing room down on Continental Street.

We continue to expect our next 5-year Discharge Permit from the DOE. They have been back logged, though we have had contact from our permit manager and believe they are working on it now. We operate under the stipulations of our existing permit in the meantime.

UV Grant

The engineering from Gray and Osborne is nearly complete and ready for review. We have found some savings that will help stretch the grant funds. 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 in order to increase the overage buffer on the UV panel to meet code.

ADD CONTACTS AND INFO BELOW

Edison Subarea: Website Update

Recommendations for Organization, Meeting Materials, Documents,
and Updates

DRAFT for Discussion | ESAB Chair - March 25, 2026

Purpose of the Website Update

Records or communications?

Some of both

- Clear **delineation of responsibilities** among Skagit County staff, Board of Skagit County Commissioners, and Edison Subarea Advisory Board
- Provide **public access** to meeting materials and records
- **Support county commissioners** with a single location for clear, reliable information
- Meet **transparency** and public records **expectations**
- Create a system that **survives:**
 - Board turnover
 - Staff changes
 - Technology upgrades

Design Principles

Prioritize Ease of Maintenance and Access

THIS

- Simple, predictable structure
- Easy to maintain by staff
- Works for commissioners, residents, and records requests
- Scales over years and decades

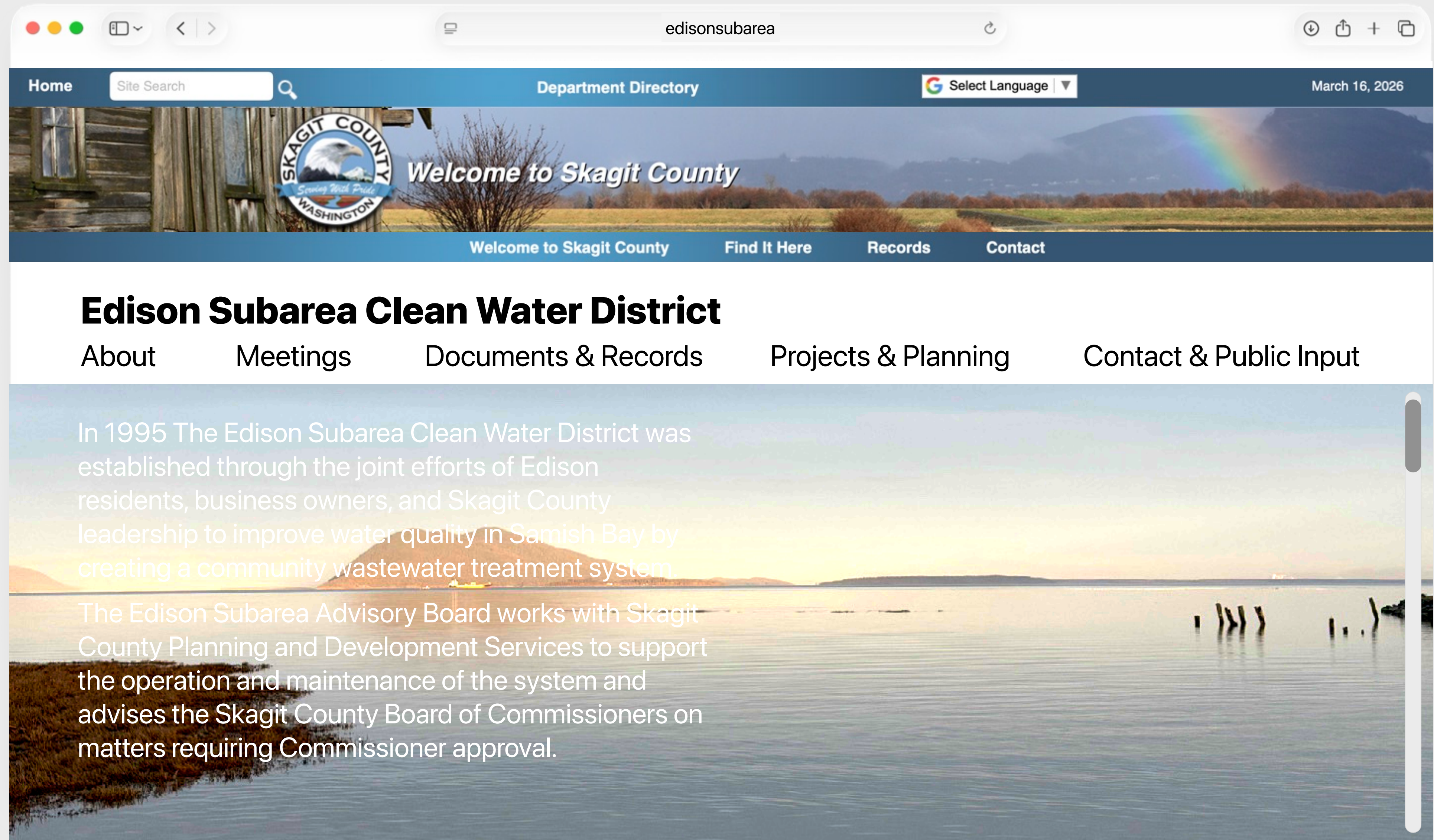
NOT THIS

- Complex or proprietary CMS tools
- Login required for access
- Ad-hoc file dumping

Website Outline

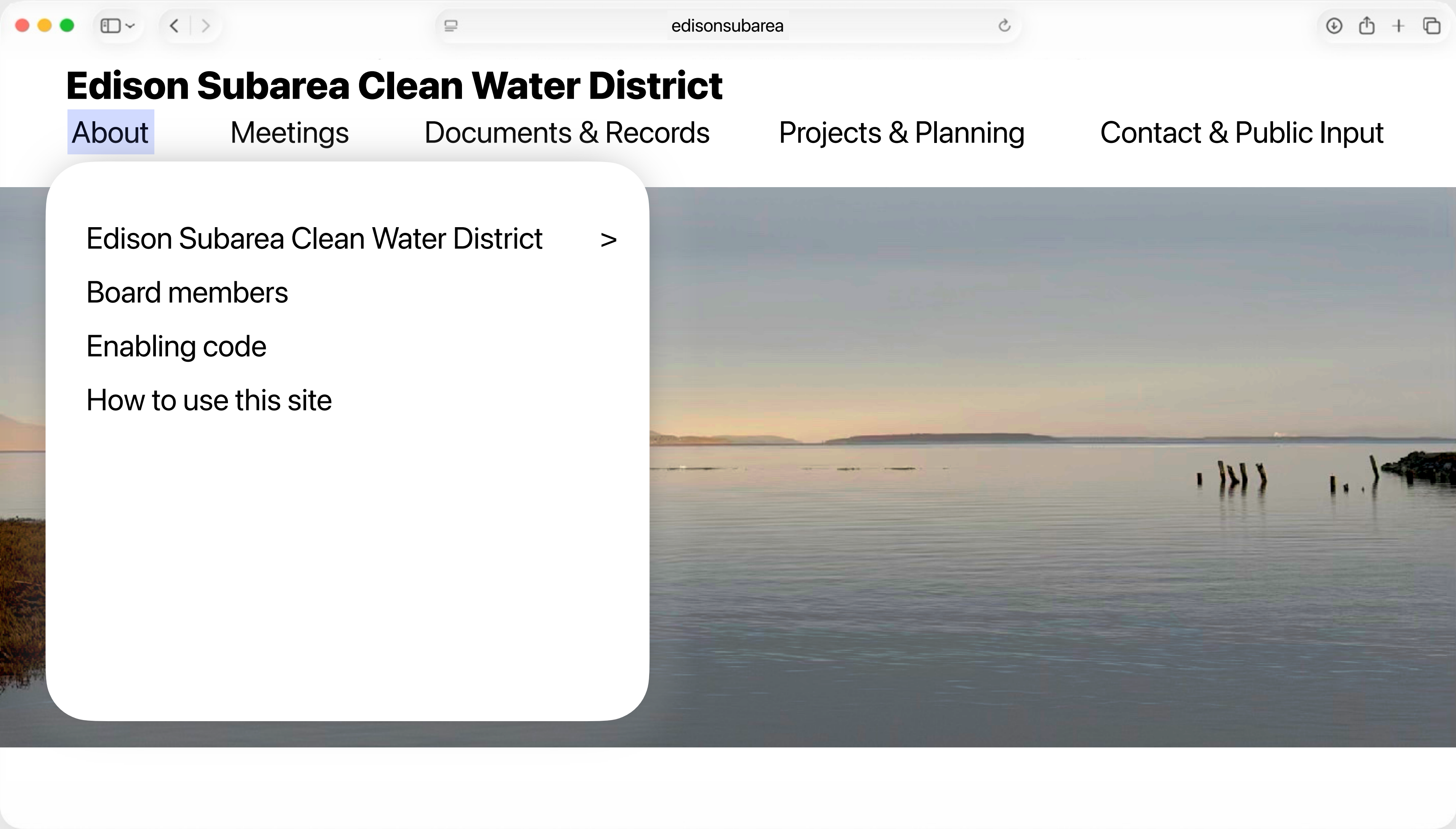
Website: Landing Page

Separate governance, records, and technical materials



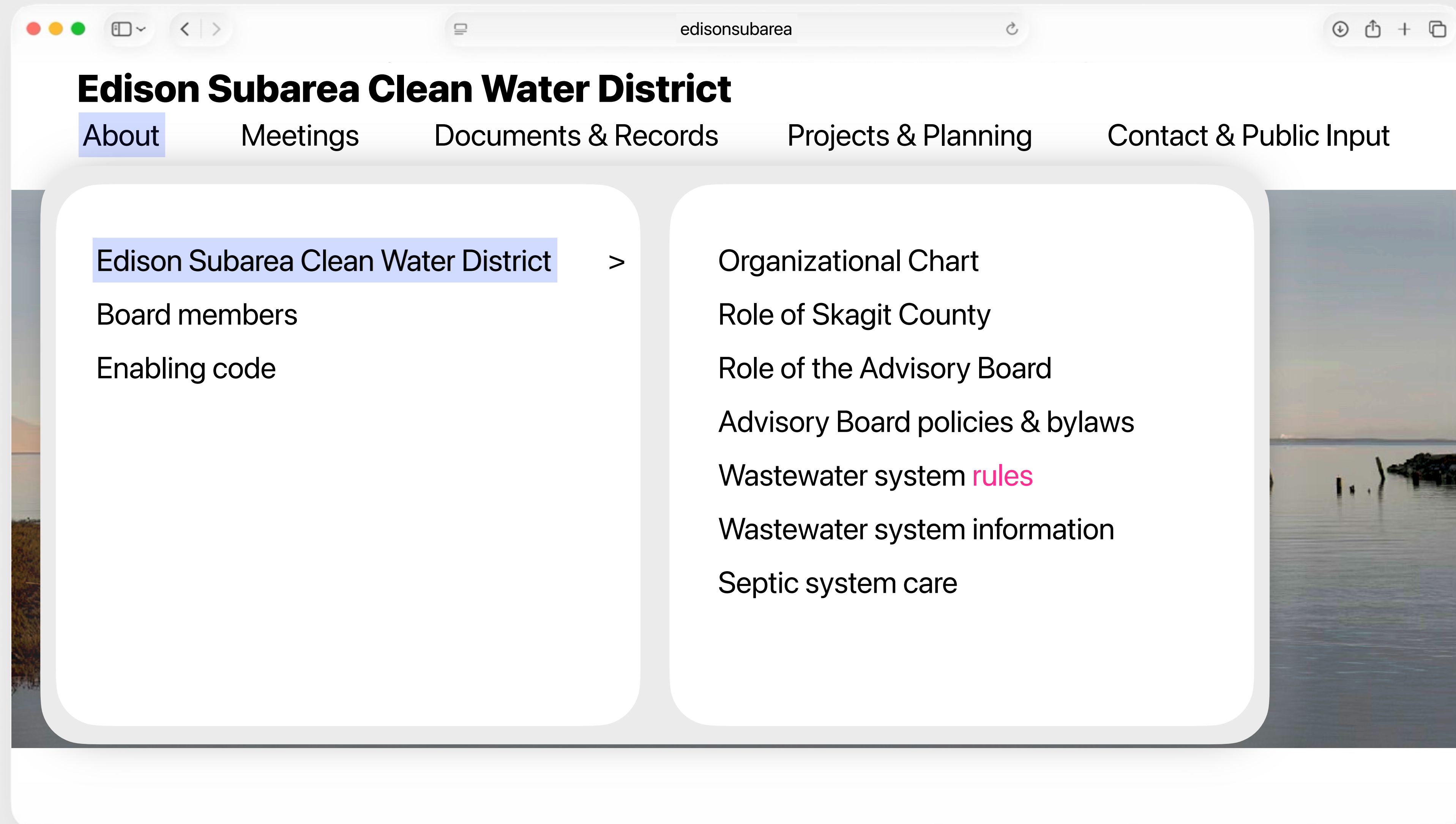
Menu: About

Establish authority, clarify responsibilities, and provide context



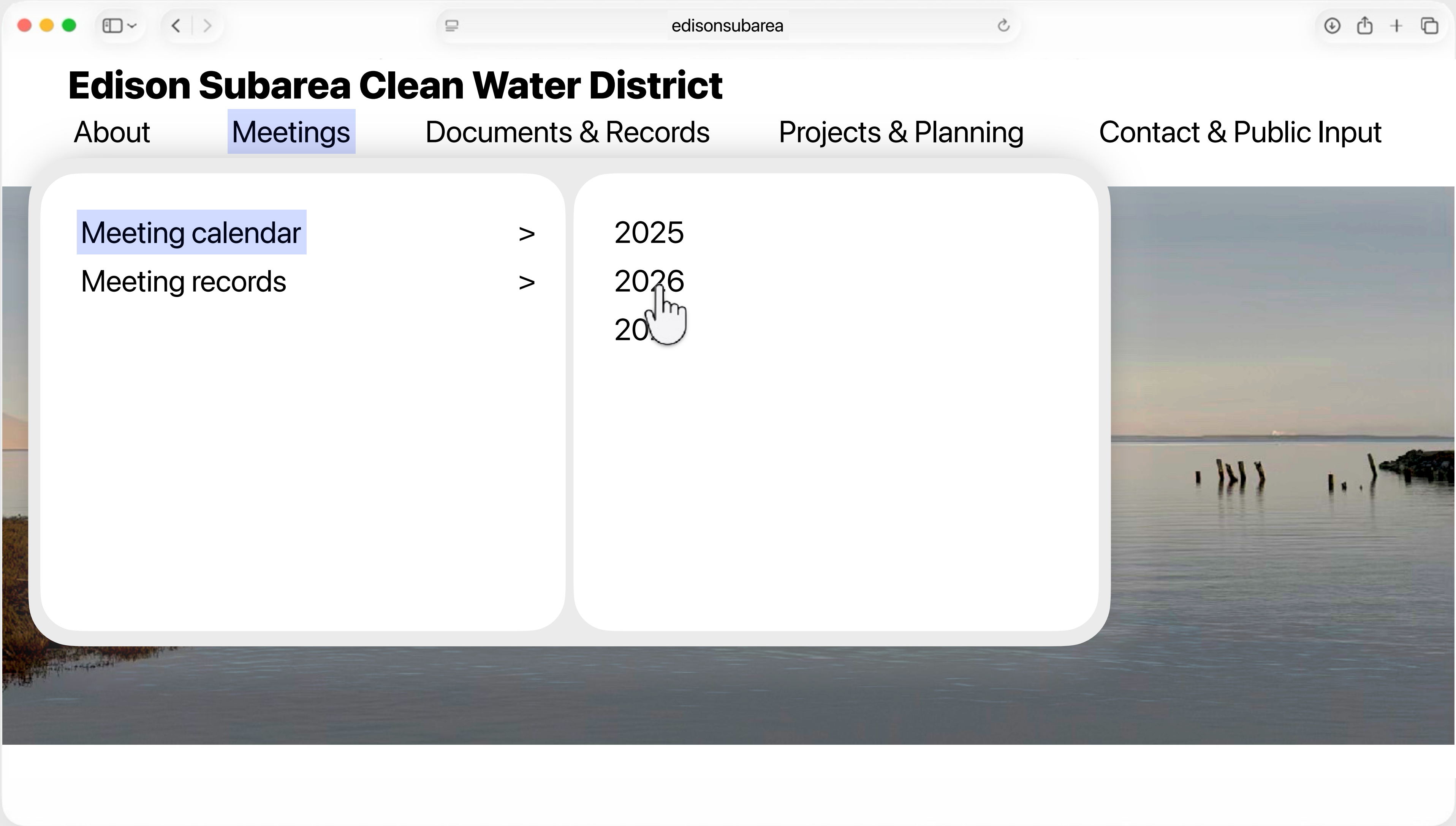
Submenu: > About

Establish authority, clarify responsibilities, and provide context



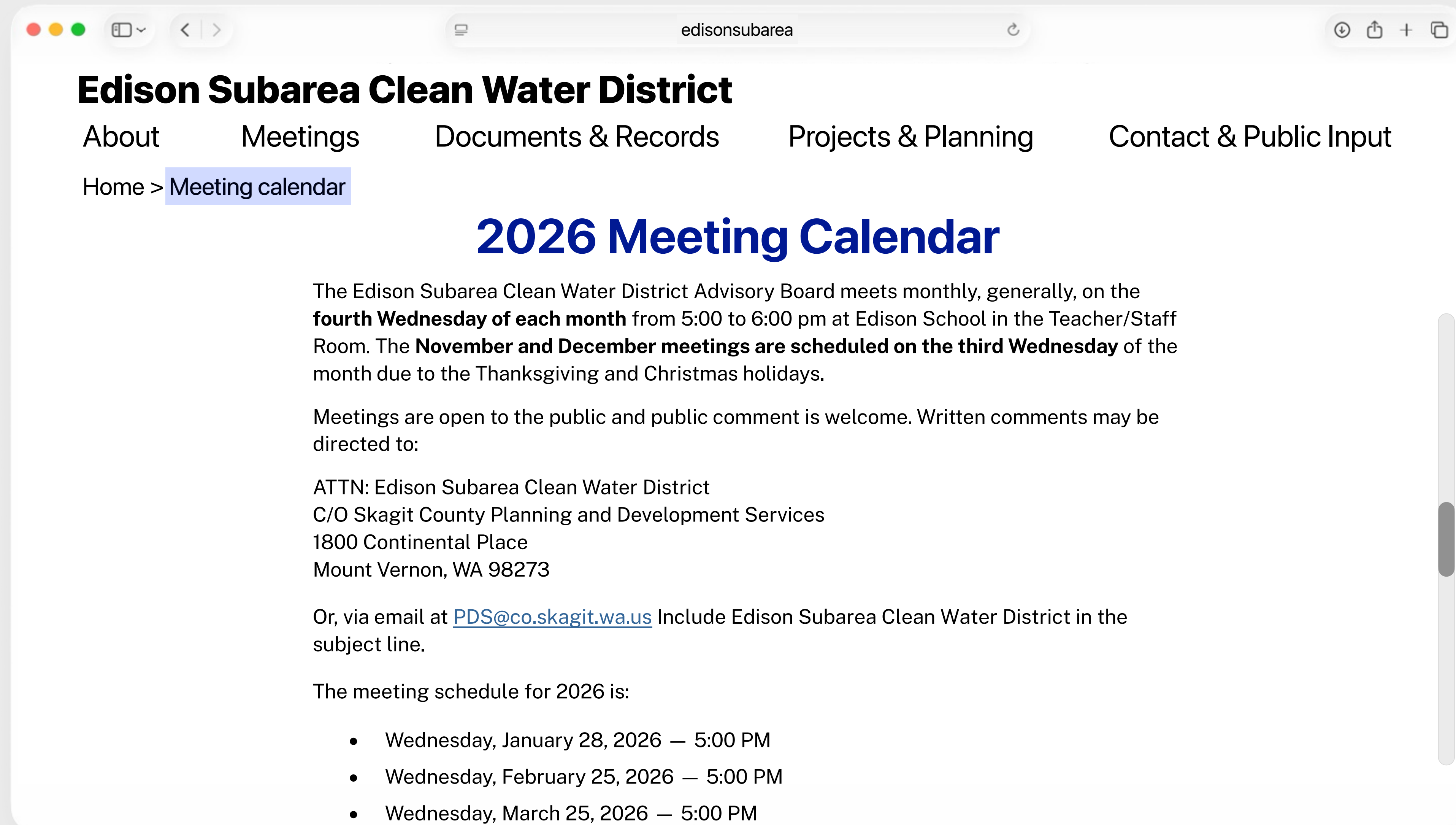
Menu: Meetings

Provide meeting information



Web Page: Meeting Calendar

Provide current year meeting information



The screenshot shows a web browser window with the address bar displaying "edisonsubarea". The website has a navigation menu with links: "About", "Meetings", "Documents & Records", "Projects & Planning", and "Contact & Public Input". Below the navigation menu is a breadcrumb trail: "Home > Meeting calendar". The main heading is "2026 Meeting Calendar". The text describes the meeting schedule: "The Edison Subarea Clean Water District Advisory Board meets monthly, generally, on the **fourth Wednesday of each month** from 5:00 to 6:00 pm at Edison School in the Teacher/Staff Room. The **November and December meetings are scheduled on the third Wednesday** of the month due to the Thanksgiving and Christmas holidays." It also states: "Meetings are open to the public and public comment is welcome. Written comments may be directed to:" followed by the address: "ATTN: Edison Subarea Clean Water District, C/O Skagit County Planning and Development Services, 1800 Continental Place, Mount Vernon, WA 98273". It also provides an email option: "Or, via email at PDS@co.skagit.wa.us Include Edison Subarea Clean Water District in the subject line." The meeting schedule for 2026 is listed as follows:

- Wednesday, January 28, 2026 — 5:00 PM
- Wednesday, February 25, 2026 — 5:00 PM
- Wednesday, March 25, 2026 — 5:00 PM

Web Page: Meeting Records

Archive of agenda, packet, and approved meeting minutes



Web Page: Meeting Records > Expanded

Archive of agenda, packet, and approved meeting minutes



Web Page: Sample Meeting Record Page

Final Agenda, Meeting Packet, and Minutes

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

Home > Meeting records > 2026-01-28 Regular Meeting

2026-01-28 Regular Meeting

ESAB_2026-01-28_Agenda.pdf

ESAB_2026-01-28_Packet.pdf

ESAB_2026-01-28_Minutes_FINAL.pdf

Click to view, right click to download

Menu: Documents & Records

Topic based access to non-meeting materials

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

Operations & Maintenance

Capital Improvements

Regulatory & Compliance

Newsletters

>

>

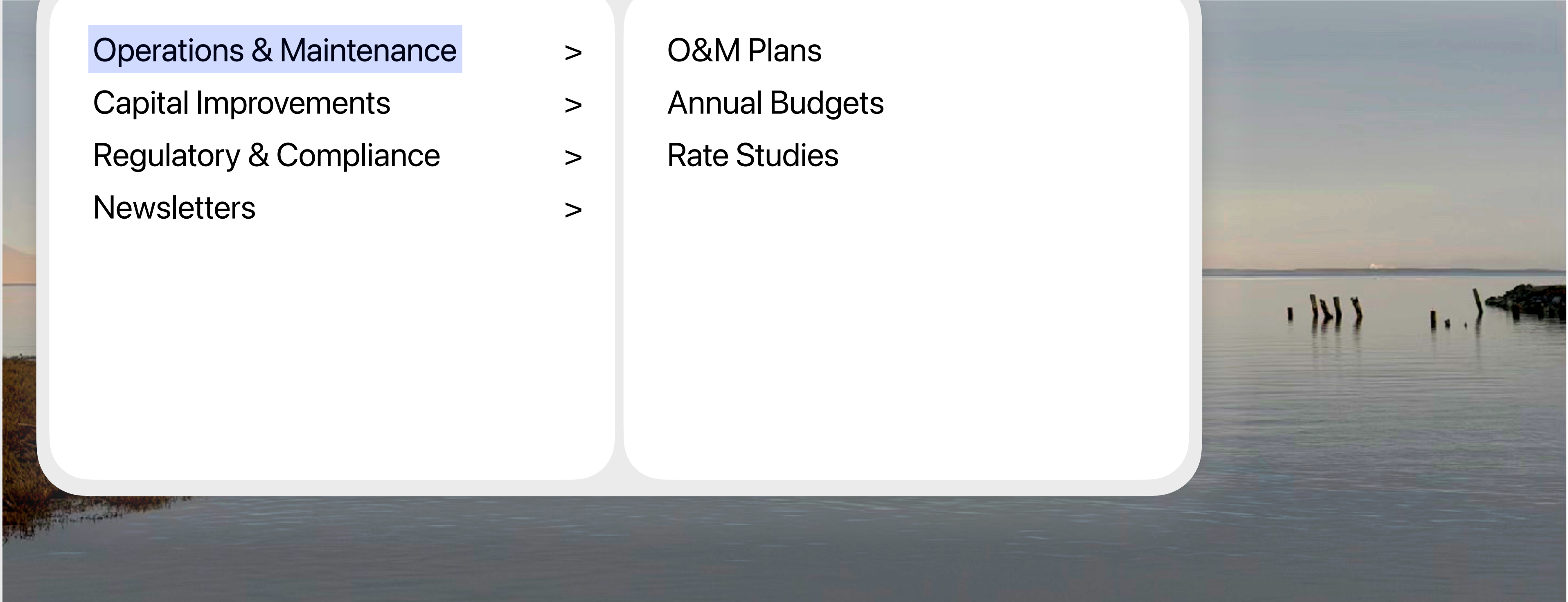
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O&M Plans

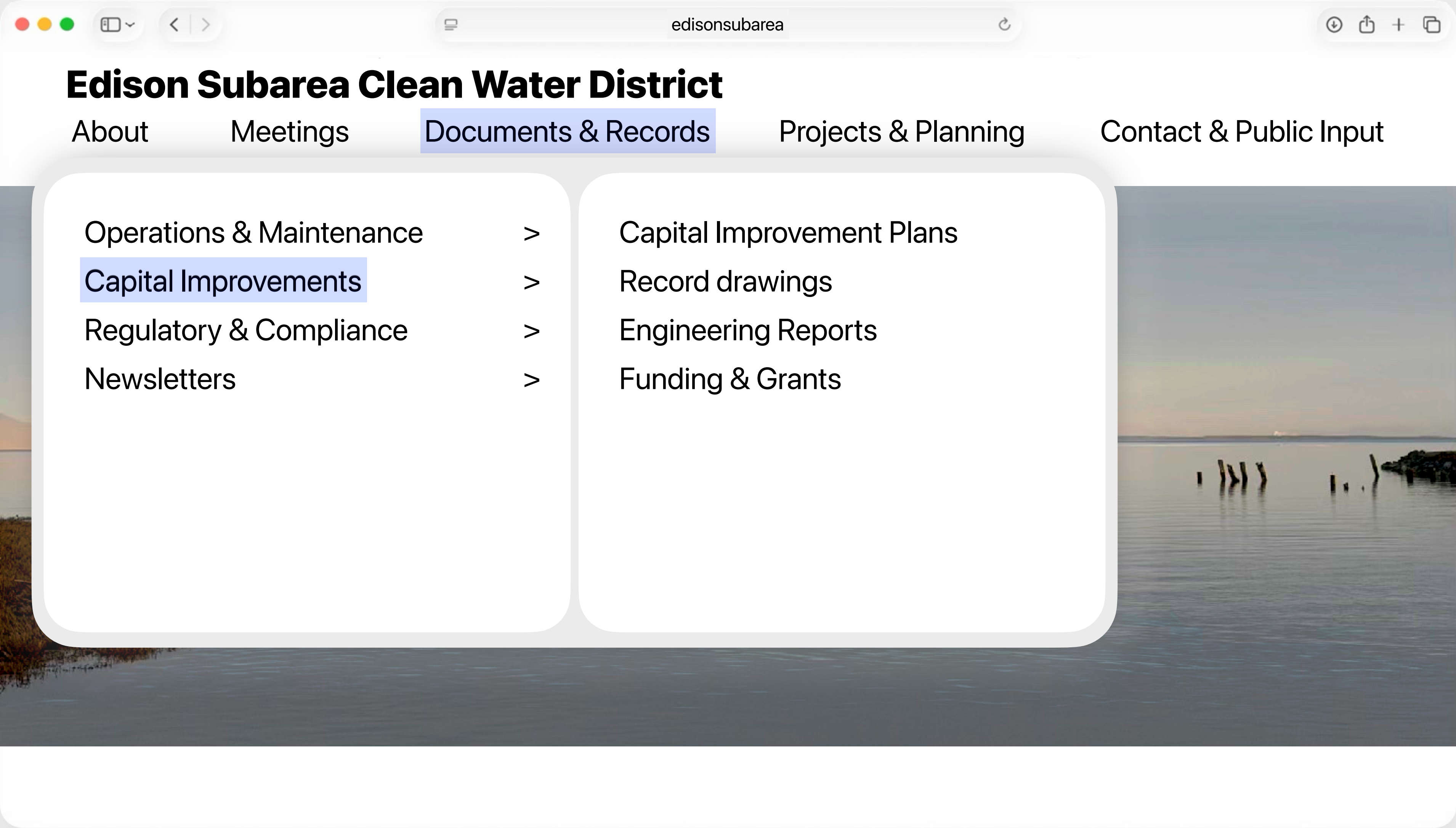
Annual Budgets

Rate Studies



Menu: Documents & Records

Topic based access to non-meeting materials



Menu: Documents & Records

Topic based access to non-meeting materials

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

Operations & Maintenance

Capital Improvements

Permits & Compliance

Newsletters

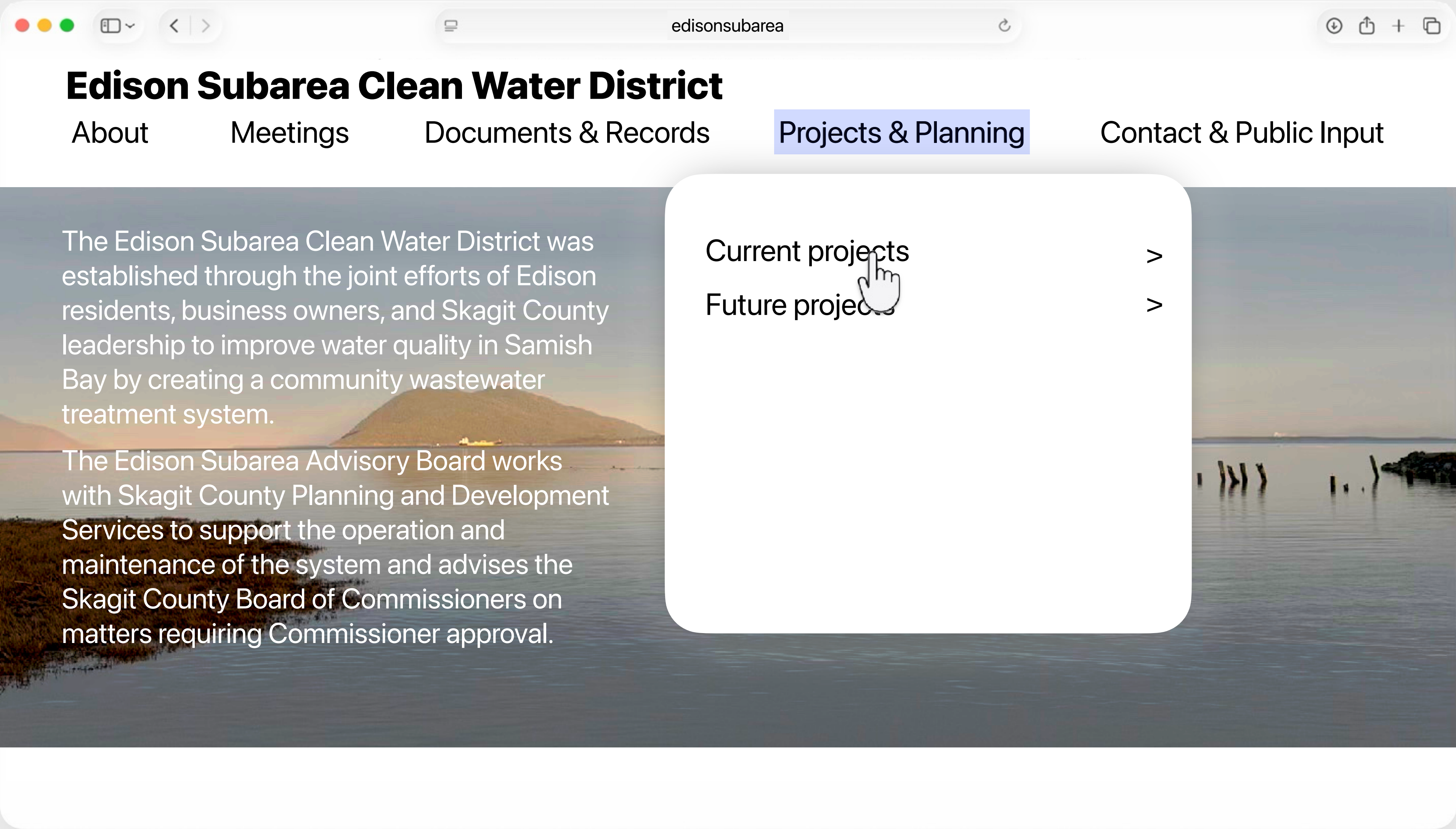
Permit information

Compliance

Test results?

Menu: Projects & Planning

Public understanding of ongoing and future work



Menu: Documents & Records

Public understanding of ongoing and future work

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

The Edison Subarea Clean Water District was established through the joint effort of local residents, business owners, and local government leadership to improve water quality in Skagit Bay by creating a community water treatment system.

The Edison Subarea Advisory Committee works with Skagit County Planning and Development Services to support the operation and maintenance of the system. The committee reports to the Skagit County Board of Commissioners on matters requiring Commission approval.

Current projects

Future projects

>

>

FY - 2026

+ UV System replacement

+ Pump rebuild and replacement

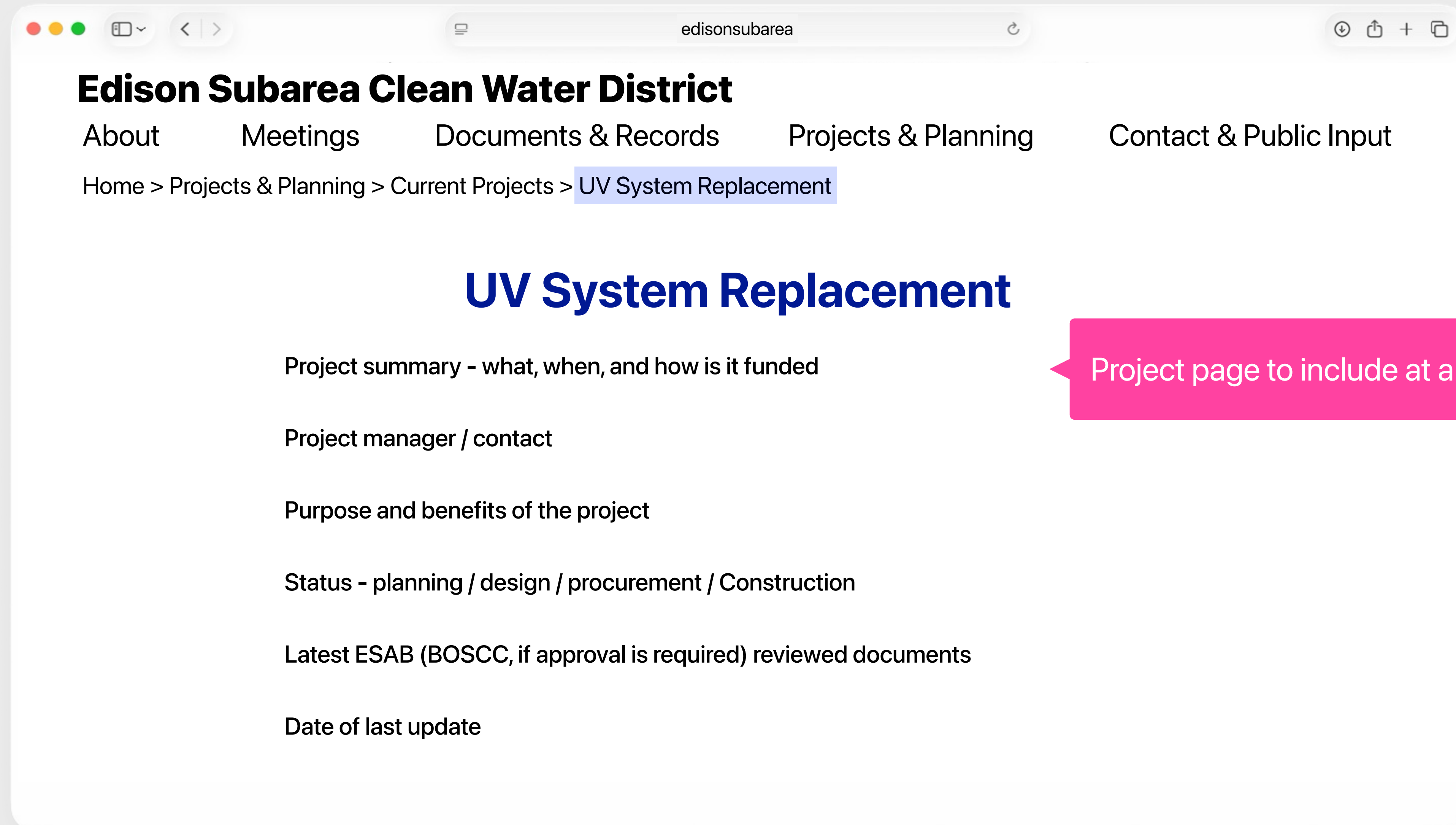
+ Inflow and Infiltration (I&I)

FY - 2025

FY - 2024

Web Page: Meeting Records

Archive of agenda, packet, and approved meeting minutes



Menu: Documents & Records

Public understanding of ongoing and future work

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

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The Edison Subarea Advisory Board works with Skagit County Planning and Development Services to support the operation and maintenance of the system. The Board reports to the Skagit County Board of Commissioners on matters requiring Commission approval.

Contact

Public Input

>

>

Emergency phone

System maintenance

Email

Phone

System connection permits & questions

Menu: Documents & Records

Public understanding of ongoing and future work

edisonsubarea

Edison Subarea Clean Water District

About

Meetings

Documents & Records

Projects & Planning

Contact & Public Input

The Edison Subarea Clean Water District was established through the joint effort of local residents, business owners, and local leadership to improve water quality in Skagit Bay by creating a community water treatment system.

The Edison Subarea Advisory Board works with Skagit County Planning and Development Services to support the operation and maintenance of the system. The Board reports to the Skagit County Board of Commissioners on matters requiring Commission approval.

Contact

Public Input

Comments

Email

Mailing address

Website Content Notes

Technology and Platform

Simple and standards compliant

Recommendations

- ESAB Website remains a part of the Skagit County website
- Works within the county's legacy CMS
- PDFs stored in a clear directory structure visible to county staff

Things to avoid

- No Google Drive, no SharePoint, no Teams files, no One Drive, etc.
- No logins required for public access and content retrieval
- No custom plug-ins

Accessibility and Compliance

Minimum expectations

Baseline

- Text-based PDFs - not scans of paper documents
- Clear titles and headings
- Readable tables
- Conformance with ADA rules on Accessibility of web content
 - <https://www.ada.gov/resources/2024-03-08-web-rule/>

File Naming Standards

ESAB Documents

Monthly or special meeting files:

Agenda: ESAB_YYYY-MM-DD_Agenda.pdf

Monthly Packet: ESAB_YYYY-MM-DD_Packet.pdf

Monthly Minutes (Final only): ESAB_YYYY-MM-DD_Minutes_FINAL.pdf

Why this convention matters:

- Records requests
- Long-term archiving
- Website consistency

Notes on “How to Use this Site” Page

Accessed from the “About” menu

Purpose

- Help residents find what they need
- Reduce staff and ESAB questions

Contents

- Where to find agendas and minutes (ESAB) documents
- Where to find guidance on connecting to the system
- Website organization chart/outline

Discussion and Next Steps

Benefits of This Approach

Consistency and Access to Information

- Predictable and consistent public access to documents, meeting information, and projects
- Easier onboarding for new board members
- Public clarity of roles and responsibilities between county and ESAB
- Low long-term maintenance and management cost of website
- Defensible records structure

Implementation

1. Confirm or revise proposed site structure
2. Update website
3. Adopt file naming convention
4. Migrate recent records first
5. Backfill historic materials as time and availability allows
6. Add “records policy” statement to Meeting Records page

Discussion, Decisions, and Next Steps

Questions for the ESAB and the County

- Is the content covered appropriate
- Is the content in the “right” or logical location
- Confirm structure and navigation / User Interface (UI)
- How many years of records do we keep online? What happens to the records that “timeout
- Who will produce any new content
- Who will do this work
- Who will do updates/post the monthly record
- Who will authorize this project to proceed
- Next steps

8 – New Business
