

Skagit County Clean Water District
Edison Subarea

Meeting Agenda – January 11, 2023

REGULAR BOARD MEETING

Held at Burlington Edison Elementary School

1. **Call to Order**
2. **Opening Public Comment**
3. **Consent Agenda:**
 - A. Prior Meeting Minutes
 - B. Fund 150 Invoices
4. **Communications:**
 - A. Lift Station & Edison School Readings from Drain Doctor
 - B. Email from Operator Erickson & Cost Estimation from G&O for Expansion to Drainfield and UV System to Accommodate Enlarged Drainfield for Additional Permitted Flow Proposal
5. **Old Business**
 - A. Monthly Operator Report
 - B. Monthly Maintenance Contractor Report
6. **New Business**
 - A. Update on Gray and Osborne Capacity Study
7. **Other Business**
8. **Closing Public Comment**
9. **Adjourn**

Edison Clean Water District

Meeting Minutes

Meeting of November 30, 2022

Call to Order: The meeting was called to order at 5:05 PM with the following board members present: Jeff Haddox, Tom Skinner, Darryl Kvistad and Bernie Alonzo. Also present were Erin Langley from the County, Greg Young from Ravenhead Municipal Services, and Operator Don Erickson.

Opening Public Comment: None

Consent Agenda: The minutes from the Board's October 26th regular meeting minutes and the below detailed vouchers were approved following a motion by Mr. Skinner and seconded by Mr. Kvistad:

11/30/22-1	Drain Doctor	\$ 4,250.68
11/30/22-2	Ravenhead Municipal	\$ 900.00
11/30/22-3	City of Burlington	\$ 802.32

Communications: Mr. Young covered the communications for tonight's meeting by noting that it included the lift station readings, the school tank levels, and the commercial site's tank readings from the Drain Doctor, the individual residential pump tank readings from November 8th, the 2022 TYD pump cycles and run times as compiled by Scott Mangold and the proposed 2023 assessments given to the County Assessor and Treasurer.

Old Business: Operator Erickson reported that the North End Totalizer is now working and we collected data for the last 60 days reflecting that the eight (8) homes on this line averaged 67 gallons per day. Mr. Erickson also noted that for the month, the Plant BOD and TSS were good with fecal a little high.

Following up on the preliminary assessments from our contracted engineering firm, Gray and Osborne, employed to review and offer recommendations regarding the system's periodic high flow, one of their thoughts is to work to increase our permitted flow amounts through enlargements to our drainfield and UV disinfectant system. To this end, they have provided some preliminary cost figures reflecting that these improvements would cost approximately \$1.3 million. The enlargements to the drainfield alternative was brought about due to their belief that our higher flows are not a reflection of I&I but rather the effect of high rainfall.

New Business: - None

Other Business: - Due to the upcoming Holidays, it was decided to not hold our regular December meeting but instead next meet on January 11th, 2023.

Adjourn: With no further business to be conducted, the meeting was conference call ended at 6:51PM.

Committee Member

Committee Member

Committee Member

Committee Member

Committee Member

Skagit County Edison Clean Water District

CASH FLOW REPORT - 2023

Fund No. 150 - Operations and Maintenance

January 2023 Beginning Cash Balance	\$415,410.65
Adjustment to County Treasurer Statement	\$0.00
 2023 Revenues to Date	 \$0.00
 2023 Expenditures to Date	 \$6,522.11
 2023 Ending Cash Balance	 <u><u>\$408,888.54</u></u>

2023 Expenditure Detail by Vendor

	<u>Operations</u>	<u>Capital</u>	<u>Permit Compliance</u>
The Drain Doctor	\$2,760.08	\$0.00	\$0.00
Ravenhead Municipal Services	\$900.00	\$0.00	\$0.00
Edge Analytical	\$0.00	\$0.00	\$132.00
Underground Utility Locate Service	\$0.00	\$0.00	\$0.00
City of Burlington	\$0.00	\$0.00	\$1,029.20
Burlington Edison School District	\$0.00	\$0.00	\$0.00
Coast Controls	\$0.00	\$0.00	\$0.00
State Department of Ecology	\$0.00	\$0.00	\$0.00
Trojan UV	\$0.00	\$0.00	\$0.00
Dahl Electric	\$1,700.83	\$0.00	\$0.00
Subtotal	<u>\$5,360.91</u>	\$0.00	\$1,161.20
TOTAL	\$6,522.11		

Skagit County Clean Water District Edison Subarea

YEAR 2023 Fund 150 Expenditure Tracking Sheet

<u>Tracking Number</u>	<u>Payee</u>	<u>Amount</u>	<u>Total</u>
1/11/23-1	Drain Doctor	\$2,760.08	
1/11/23-2	Ravenhead Municipal	\$ 900.00	
1/11/23-3	City of Burlington	\$1,029.20	
1/11/23-4	Edge Analytical	\$ 132.00	
1/11/23-5	Dahl Electric	\$1,700.83	\$6,522.11

Skagit County Clean Water District Edison Subarea

FUND 150

Tracking Number:
1/11/23-1

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices detailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
12/13/2022	Drain Doctor	Invoice #39575 - Repair	150.582.00.41.10	\$414.00
12/12/2022		Invoice #39577 - pumping clarifer tank		\$169.00
12/1/2022		Invoice #39584 - Monthly Contract		\$1,412.08
12/5/2022		Invoice #39700 - Pumped Old Edison		\$765.00
TOTAL				\$2,760.08

Date: _____

Signed: _____

Skagit County Clean Water District

Edison Subarea

FUND 150

Tracking Number:

1/11/23-2

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices detailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
1/8/2023	Ravenhead Municipal	Invoice #2023-05-1 January 2023 Contract	150.582.00.41.10	\$900.00
TOTAL				\$900.00

Date: _____

Signed: _____



Ravenhead Municipal Services

5 Sanwick Point Court

Bellingham WA 98229

360.410.8626

youngest@comcast.net

January 8, 2023

INVOICE NO.	2023-05-1
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BILL TO:

Skagit County Permit and Planning

1800 Continental Place

Mount Vernon WA 98273

January 2023 Billing Summary

DESCRIPTION

January 2023 Contractual Service Fee

\$900.00

Thank You

BALANCE DUE \$900.00

Skagit County Clean Water District

Edison Subarea

FUND 150

Tracking Number:
1/11/23-3

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices detailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
11/30/2022	City of Burlington	Monthly Operator Fee - November 2022	150.582.00.48.10	\$604.32
12/31/2022		Monthly Operator Fee - December 2022		\$424.88
TOTAL				\$1,029.20

Date: _____

Signed: _____

Skagit County Contract #C20200272 Billing for Edison Sewer

Operator	Date	Hours of Service	Mileage	Description	Materials/Supplies	Service Fee	Mileage 2022	Administration Fee	Total
						\$		\$	
Don Erickson	12/7/2022	1		Review Lab data, Flow and DMR		60.00	0.625	10%	66.00
	12/2/2022	1.5	21	Sampled for Edge & Site Inspection		90.00	13.13	10.31	113.44
	12/14/2022	1.5	21	Resampled and tested T.S.S and B.O.D		90.00	13.13	10.31	113.44
	12/1-31/22	2		Monitor SCADA System		120.00		12.00	132.00
Totals		6	42		\$	360.00	26.26	38.62	424.88



Burlington WA
 Corporate Office
 1620 S Walnut St - 98233
 800.755.9295 • 360.757.1400 • 360.757.1402fax

INVOICE

Client No: SKA13
 Client: SKAGIT COUNTY PLANNING & DEVELOPMENT
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273

Please include Reference number with payment

Reference: **22-39188**

Date: January 5, 2023

Project: Edison Loss

Date Received: December 02, 2022

Purchase Order: Edison

Attn:

Item	Lab Sample Number	Client Sample Number and Description	Type of Analysis	Turnaround	Extended Cost
1	77063.00	Site M(In) - Edison WWTF	5 day BOD test	Standard	
2	77063.00	Site M(In) - Edison WWTF	Total Suspended Solids	Standard	
3	77064.00	Site A (Out) - Edison WWTF	5 day BOD test	Standard	
4	77064.00	Site A (Out) - Edison WWTF	Total Suspended Solids	Standard	
5	77064.00	Site A (Out) - Edison WWTF	Raw Compliance	Standard	\$31.00
6	77064.00	Site A (Out) - Edison WWTF	Inflationary Surcharge	Standard	

Grand Total: \$31.00

Amount Paid: \$0.00

Amount Due (US Dollars): **\$31.00**

Thank You for Your Business

Please pay to corporate office by February 4, 2023 to avoid a 1.5% per month finance charge.

Please Detach Here ^ and return this portion with your payment

Reference: **22-39188**

Amount Due: \$31.00

in US Dollars

SKAGIT COUNTY PLANNING & DEVELOPMENT
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273
 SKA13

Please Remit To:
 Edge Analytical, Inc.
 1620 S Walnut St
 Burlington, WA 98233

OR you can pay on-line at:
www.edgeanalytical.com/payments
 User Name: Pay Password: Edge



Burlington WA
 Corporate Office
 1620 S Walnut St - 98233
 800.755.9295 • 360.757.1400 • 360.757.1402fax

INVOICE

Client No: SKA13
 Client: SKAGIT COUNTY PLANNING & DEVELOPMENT
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273

Please include Reference number with payment

Reference: **22-36426**
 Date: November 11, 2022
 Project: Edison LOSS

Attn:

Date Received: November 03, 2022
 Purchase Order:

Item	Lab Sample Number	Client Sample Number and Description	Type of Analysis	Turnaround	Extended Cost
1	71609.00	Site M (in) - Edison WWTF	5 day BOD test	Standard	\$27.00
2	71609.00	Site M (in) - Edison WWTF	Total Suspended Solids	Standard	\$11.00
3	71610.00	Site A (out) - Edison WWTF	5 day BOD test	Standard	\$27.00
4	71610.00	Site A (out) - Edison WWTF	Total Suspended Solids	Standard	\$11.00
5	71610.00	Site A (out) - Edison WWTF	Fecal Coliform by MTF in Water	Standard	\$25.00
6	71610.00	Site A (out) - Edison WWTF	Inflationary Surcharge	Standard	

Grand Total: \$101.00
 Amount Paid: \$0.00

Amount Due (US Dollars): **\$101.00**

Thank You for Your Business

Please pay to corporate office by December 11, 2022 to avoid a 1.5% per month finance charge.

Please Detach Here ^ and return this portion with your payment

Reference: **22-36426**
 Amount Due: **\$101.00**

In US Dollars

SKAGIT COUNTY PLANNING & DEVELOPMENT
 1800 CONTINENTAL PLACE
 MOUNT VERNON, WA 98273
 SKA13

Please Remit To:
 Edge Analytical, Inc.
 1620 S Walnut St
 Burlington, WA 98233

OR you can pay on-line at:
www.edgeanalytical.com/payments
 User Name: Pay Password: Edge

Skagit County Clean Water District

Edison Subarea

FUND 150

Tracking Number:

1/11/23-5

Voucher Cover Sheet

We, the undersigned members of the Edison Subarea Board do hereby recommend that the invoices detailed below be forwarded to the Skagit County Commissioners for consideration for payment. We have reviewed these costs and supporting materials and have determined that they are proper and accurate.

DATE	PAYEE	DESCRIPTION	BARS	AMOUNT
10/28/2021	Dahl Electric	Invoice #30165 - repair	150.540.48.10	\$935.74
1/24/2022		Invoice #30355 - repair		\$236.96
11/30/2022		Invoice #31245 - repair		528.13
TOTAL				\$1,700.83

Date: _____

Signed: _____



521 E. VICTORIA AVE.
 BURLINGTON, WA 98233
 PHONE: (360) 755-1145
 FAX: (360) 755-9722

Invoice

Invoice Number 30165
Invoice Date 10/28/2021
Due Date 10/28/2021

Customer #: 4299	Work Performed At
Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs 5 Sanwick Point Court Bellingham, WA 98229 Contact: Greg Young Email: Youngest@comcast.net Ph: (360) 410-8626	Job#: D007697 Customer PO: Verbal SCP&D Edison Cafe Lift Station 5797 Main Avenue Bow, WA 98232 Contact: ASK Email: Youngest@comcast.net Ph: (360) 336-9410

Work Requested: TS a possible phase loss. **Work Requested By:** Mike Tamman **Order Date:** 10/7/2021

Work Performed:
 Found that the phase loss monitor had failed. Located a replacement and installed on arrival. Also replaced the t-stat in the cabinet.

Qty	U/M	Description	Item #	Rate/Unit	Amount
5.50	E	JOURNEYMAN LABOR - PW	JY2	115.00	632.50
1.00	E	3P PHASE MONITOR	OTB	149.31	149.31
1.00	E	1P WALL TSTAT	K101	30.62	30.62
1.00	E	PW CERT & FILING FEE	PWCERT	50.00	50.00

Terms: Due upon receipt of invoice
 Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.

Remit to: Dahl Electric, Inc.
 521 E. Victoria Ave.
 Burlington, WA 98233

Subtotal: 862.43
Sales Tax: % 73.31
2929Skagit PTBA - 2929
Total Due: \$ 935.74



521 E. VICTORIA AVE.
BURLINGTON, WA 98233
PHONE: (360) 755-1145
FAX: (360) 755-9722

Invoice

Invoice Number 30355
Invoice Date 1/24/2022
Due Date 1/24/2022
Page 1 of 1

Customer #: 4299		Work Performed At	
Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs 5 Sanwick Point Court Bellingham, WA 98229 Contact: Greg Young Ph: (360) 410-8626 Email: Youngest@comcast.net		Job#: D007942 Customer PO: Perry Residence (Thomas & Renee) 14095 Doser Street Bow, WA 98233-2 Contact: Thomas Perry Ph: () - Email:	

Work Requested: Meet Mike Tammen at 845am 01/05/22 to decipher septic system issue. **Work Requested By:** Thomas Perry **Order Date** 1/5/2022

Work Performed: TS septic check amperage and run pump. Check low voltage relay functionality. Reset and adjusted time and sensitivity..

Qty	U/M	Description	Item #	Rate/Unit	Amount
1.00	E	JOURNEYMAN LABOR - PW	JY2	119.00	119.00
1.00	E	PW CERT & FILING FEE	PWCERT	100.00	100.00

Terms: Due upon receipt of invoice
 Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.

Remit to: Dahl Electric, Inc.
521 E. Victoria Ave.
Burlington, WA 98233

Subtotal: 219.00
SalesTax: 8.20% 17.96
 2900Skagit County Unincorporate
Total Due: \$ 236.96



521 E. VICTORIA AVE.
BURLINGTON, WA 98233
PHONE: (360) 755-1145
FAX: (360) 755-9722

Invoice

Invoice Number 31245
Invoice Date 11/30/2022
Due Date 11/30/2022

Customer #: 4299	Work Performed At
Skagit Co Planning & Developme Attn: Ravenhead Municipal Svcs 5 Sanwick Point Court Bellingham, WA 98229 Contact: Greg Young Ph: (360) 410-8626 Email: Youngest@comcast.net	Job#: D008735 Customer PO: SCP&D 5941 Farm to Market Rd. 5941 Farm to Market Rd. Edison, WA 98232 Contact: Mike Tammen Ph: (360) 708-9674 Email:

Work Requested: Meet Drain Doctor and determine float and or pump issues. **Work Requested By:** Mike Tammen **Order Date:** 11/3/2022

Work Performed: Determined that the motor needed replacing.

Qty	U/M	Description	Item #	Rate/Unit	Amount
2.50	E	JOURNEYMAN LABOR - PW	JY2	139.00	347.50
1.00	E	PW CERT & FILING FEE	PWCERT	100.00	100.00
3.00	E	Sewer Nuts	OTB	4.20	12.60
1.00	E	Cord Grip Conn.	OTB	26.21	26.21

Terms: Due upon receipt of invoice

Thank you for your business. We do expect payment within terms, so please process this invoice within that time. There will be a 1.5% interest charge per month on late invoices. Credit card payments are subject to a 3% processing fee that will be added to the total. A \$35 fee will be added to all NSF checks.

Remit to: Dahl Electric, Inc.
521 E. Victoria Ave.
Burlington, WA 98233

Subtotal: 486.31

Sales Tax: 8.60% 41.82

2929Skagit PTBA - 2929

Total Due: \$ 528.13

Edison Lift Station

Date: 12-12-22

Tech: JOSE

Counter # 1

Events 40878

Run Time 2479.62

Counter # 2

Events 39925

Run Time 5984.89

Siemens Totalizer 64824

Comments: All normal

Draw Downs _____

North Pump _____ Inches 1" Min _____

South Pump _____ Inches 3/4" Min _____

Site# 74

Techs: Joss

Date: 12-12-22

Job # 48

Edison School

Panel Readings

#1

Hr: 1110.53

Events: 33835

Ordn: /

#2

Hr: 1148.17

Events: 33906

Ordn: /

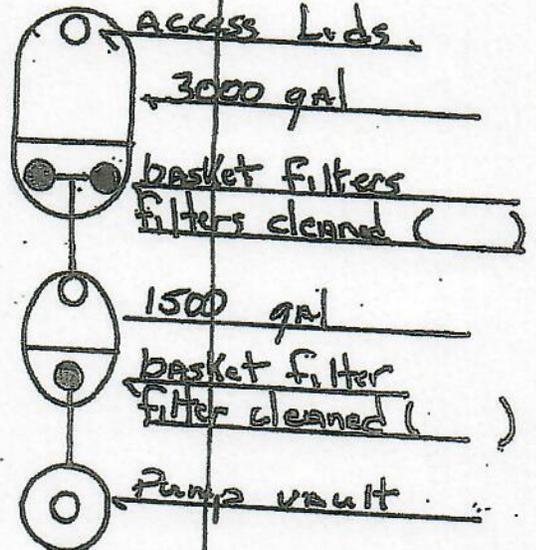
scum: _____
sludge: _____

scum: _____
sludge: _____

scum: _____
sludge: _____

scum: _____
sludge: _____

scum: _____
sludge: _____



Comments:

Greg Young

From: Don Erickson
Sent: Wednesday, November 30, 2022 8:36 AM
To: Greg Young; 'Erin Langley'
Subject: FW: [External] RE: Edison
Attachments: Edison UV system and Drain Field Improvements Cost Estimate.pdf

Greg, I will bring copies of the attached tonight to share. This was per the request from Bernie at the last meeting.

From: Jay Swift [mailto:jswift@g-o.com]
Sent: Tuesday, November 29, 2022 4:58 PM
To: Don Erickson <derickson@burlingtonwa.gov>
Cc: 'Bjarne Jacobsen' <bjacobsen@g-o.com>; 'Yun Xi' <yxi@g-o.com>
Subject: RE: [External] RE: Edison

{**Caution:** *This email originates outside of the City of Burlington*} >
Don

Attached is a very preliminary cost estimate to address the capacity issues at the Edison WWTP and Disposal Field.

We have broken down the costs into the following categories:

DISPOSAL FIELD EXPANSION

Adding additional capacity as the existing disposal field capacity, using some of the area where the field is. Another option is to purchase some adjacent land (for that option, additional land costs would need to be added)

EXISTING DISPOSAL FIELD IMPROVEMENTS

Partially collapsed-trench, and otherwise reduced-capacity, sections of the existing disposal system would be excavated and brought back to full capacity. The estimate assumes half of the existing piping and valves are replaced.

UV DISINFECTION SYSTEM IMPROVEMENTS

The UV system would be replaced with a new system, controls, stainless steel channel, etc.

MISCELLANEOUS GRAVEL FILTER TREATMENT SYSTEM IMPROVEMENTS

A placeholder of \$30,000 has been included for improvements that might be identified as desirable during planning or design.

Some of these costs could potentially be reduced if I/I is reduced.

Please let us know if you have any questions or comments.

Are you available for a short meeting tomorrow to discuss this estimate and touch base on the final stages of the Burlington Plan?

Would 10 am or 11 am perhaps work for that?

Thanks

SKAGIT COUNTY EDISON CLEAN WATER DISTRICT, EDISON SUBAREA NO. 1
WASTEWATER CAPACITY PLAN
PLANNING LEVEL COST ESTIMATE
November 2022
G&O# 22596

<u>NO.</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>PRICE</u>	<u>AMOUNT</u>
<i>DISPOSAL FIELD EXPANSION</i>				
1	Mobilization/Demobilization	1	LS \$29,000	\$29,000
2	Trench Excavation, Backfill and Infiltration System Installation	1	LS \$70,000	\$70,000
3	Pea Gravel	500	CY \$30	\$15,000
4	Sand Backfill for Grading	430	CY \$30	\$13,000
5	Force Main Piping	2650	LF \$14	\$37,000
6	Other Piping, Valves and Appurtenances	1	LS \$31,000	\$31,000
7	Electrical	1	LS \$72,000	\$72,000
8	Instrumentation & Controls	1	LS \$40,000	\$40,000
9	Trench Excavation Safety System	1	LS \$200	\$200
	Subtotal			\$307,000
<i>EXISTING DISPOSAL FIELD IMPROVEMENTS</i>				
1	Mobilization/Demobilization	1	LS \$29,000	\$29,000
2	Trench Excavation, Backfill and Infiltration System Installation	1	LS \$65,000	\$65,000
3	Demolition and Wastehaul	1	LS \$10,000	\$10,000
4	Pea Gravel	350	CY \$30	\$11,000
5	Sand Backfill for Grading	300	CY \$30	\$9,000
6	Force Main Piping	1325	LF \$14	\$19,000
7	Other Piping, Valves and Appurtenances	1	LS \$16,000	\$16,000
8	Electrical	1	LS \$36,000	\$36,000
9	Instrumentation & Controls	1	LS \$40,000	\$40,000
10	Trench Excavation Safety System	1	LS \$200	\$200
	Subtotal			\$234,000
<i>UV DISINFECTION SYSTEM IMPROVEMENTS</i>				
1	Mobilization and Demobilization	1	LS \$12,000	\$12,000
2	Channel Modification	1	LS \$20,000	\$20,000
3	Demolition and Wastehaul	1	LS \$10,000	\$10,000
4	UV Equipment	1	LS \$36,000	\$36,000
5	Installation, 40%	1	LS \$14,000	\$14,000
6	Electrical	1	LS \$13,000	\$13,000
7	Instrumentation & Controls	1	LS \$19,000	\$19,000
	Subtotal			\$124,000
<i>MISCELLANEOUS GRAVEL FILTER TREATMENT SYSTEM IMPROVEMENTS</i>				
		1	LS \$30,000	\$30,000
Subtotal				\$695,000
Construction Contingencies (30%)				\$209,000
Subtotal				\$904,000
Sales Tax (8.6%)				\$78,000
Total Estimated Construction Cost (rounded)				\$981,000
Engineering Services (13%)				\$128,000
Construction Administration (12%)				\$118,000
Legal, Administration, Permitting (5%)				\$50,000
Total Estimated Project Cost (rounded)				\$1,278,000



November 30, 2022

Edison WWTF Operators Report

November 3rd, Erin and I collected monthly samples for analysis at Edge Analytical. The flow was 5352 gallons and the return rate was 7.6:1. The recirculating tank pH was 6.5, and effluent pH was 6.2. I inspected the site and was unable to observe 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 appeared to be functioning correctly and the facility appears to be clean and well-kept.

November 11th, The Edge analytical report showed a fecal count of 220 MPN/100ml (to high) and an 83% reduction in TSS and a 87% reduction in BOD.

November 15th, resampled effluent for analysis and the fecal was 31 MPN/100ml, within the expected range.

November 29th, Erin and I cleaned the UV lamps and the recirculating ball valve and a visual inspection of both appeared to be functioning correctly. The flow was 5412 gallons and the return rate was 7.6:1, I was unable to observe any ponding on the gravel filters by sight or smell and could hear the recirculating gravel filter pumps cycle.

Sincerely,

Don Erickson
Sewer Department Supervisor



December 31, 2022

Edison WWTF Operators Report

December 2nd, Erin and I collected monthly samples for analysis at Edge Analytical. The flow was 5352 gallons and the return rate was 7.66:1. The recirculating tank pH was 6.9, and effluent pH was 6.5. I inspected the site and was unable to observe 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 appeared to be functioning correctly and the facility appears to be clean and well-kept.

On December 13th, I received notice that our December 2nd effluent TSS results from Edge Analytical was 200 mg/L TSS and a 9mg/L BOD. We retested the effluent TSS and BOD on December 14th with the second test results of 7 mg/L TSS and 4 mg/L BOD which is within the expected range.

So the logical conclusion is the high TSS result on December 2nd is an outlier and therefore invalid and will be omitted from the monthly average. To substantiate the conclusion, historically the average effluent TSS over the last 24 months has been 7 mg/L. If the 200 mg/L TSS was valid, the BOD would have been higher and our UV system would not have been able to perform, which was not the case as indicated in our fecal count of only 4.0 MPN/100ML. We are currently evaluating our sampling protocol and our contracted lab.

On December 27th and 28th, some of the treated effluent flow was sent to the Emergency Upflow Trench as a result of extended periods of heavy rain with high tides. Which had resulted in several drain fields shutting down on high water level alarms, then restarting hours or days later when the water table has dropped. As per the permit, S2.A. *"The Permittee must report when drainfield zones are shut off. The Permittee must include the date, amount of time, and drainfield number and zone in the notes section in the monthly DMR."* This was noted on the December 2022 DMR.

Sincerely,

Don Erickson
Sewer Department Supervisor

Sewer Department

900 S. Section St, Burlington, WA 98233 • Phone (360) 757-0485 • Email done@burlingtonwa.gov