

March 10, 2025

Permit Coordinator
Department of Ecology
N. 4601 Monroe, Suite 202
Spokane, WA 99205-1295

RE: Permit #ST 8019 / Farm Management Plan for Year: 2025

Dear Charlotte,

As per the requirement of S10.A of the Loon Lake Sewer District No. 4's Permit #ST 8019, the following is the annual summary of farm operations for last year. The District executed a new farm lease with Dave Rieper, the person farming the District's land since 1992, in March 2017. Mr. Rieper has a history of farming experience and the District will continue to oversee the farming of the field as required.

The field is presently all planted in alfalfa / grass.

The District proposes the following irrigation schedule for year: 2025
based on 562,055 gallons per day, and the approved Irrigation and Crop Management Plan.

	Apr 1-30	May 1-31	Jun 1-30	Jul 1-31
Inches	0.58	3.35	4.86	6.18
Gallons	1,082,684	6,273,637	9,106,415	11,583,241
Days	2	11	16	21

	Aug 1-31	Sept 1-31	Oct 1-31	Totals
Inches	4.26	2.12	0.00	21.35
Gallons	7,979,236	3,974,787	0	40,000,000
Days	14	7	0	71

(Adjusted mg/l of nitrogen per year, based on 50% loss (the District's August 1998 Comprehensive Plan, page 11, states an average of 75% loss) = 3469 lbs / year;
loading of 50.28 lbs / acre / year on 69 acres of alfalfa and grass.

	Apr 1-30	May 1-31	Jun 1-30	Jul 1-31
N, #/A				
69 acres	1.4	7.9	11.4	14.6

	Aug 1-31	Sept 1-31	Oct 1-31	Totals
N, #/A				
69 acres	10.0	5.0	0.0	50.3

Based on the lab analyses, the nitrogen removal by crop is: 2230 pounds
Divided by 69 acres equals 32 pounds/acre

The Nitrogen applied last year, according to our monitoring records is:
2211 pounds
32 pounds/acre

Mr. Rieper anticipates the 1st cutting of alfalfa / grass to be the 10th of June.
For last year, records indicate there was the following tonnage of crop: 67
This year, Mr. Rieper is planning to cut the following acres of alfalfa/grass mix: 69
We estimate the total tons of crop that will be cut to be: 120

We look forward to reviewing any questions or concerns you may have regarding the District's proposed farm management plan for this year.

Sincerely,

Brooke Lyons
District Manager
Loon Lake Sewer District No. 4

cc: Allison Esvelt, Esvelt Environmental Engineering
Jim Gleton, Soil Conservation Service

2024 Pivot / Irrigation Flow readings

	<u>Monthly Flow to Date</u>	<u>Hours Pivot Ran</u>
March	0	0.0
April	0	0.0
May	0	0.0
June	9,876,638	363.4
July	13,937,269	541.5
August	4,296,552	147.4
September	9,040,939	377.1
October	0	0.0
	37,151,398	1,429.4

2024	GPH Average:	25,990.90
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2024 Meter Station Flow readings

	<u>Loon Lake Montly Flow</u>	<u>Deer Lake Monthly Flow</u>
January	1,305,430	1,241,778
February	1,065,618	1,013,780
March	1,159,018	1,044,573
April	1,174,837	966,691
May	1,524,792	1,236,232
June	1,746,674	1,430,084
July	2,335,320	2,289,611
August	1,897,856	1,801,081
September	1,439,318	1,250,935
October	1,234,702	946,379
November	1,354,043	1,016,570
December	1,142,052	1,014,581

2024	Summer Months (May - Sept):	16,951,903
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2024	Winter Monts (Oct - Apr):	15,680,052
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LOON LAKE SEWER DISTRICT NO. 4
2025 FARM MANAGEMENT PLAN DATA

Total Irrigated Area: 69

Total Gallons: 40,000,000

Pump approximately 562,055 GPD
 =.3 inches per day over 69 acres
 (Refer to page II - 11 of O & M manual)

To pump	40,000,000	gallons
divided by	562,055	GPD
	71	Days

Days needed and inches irrigated to pump # of gallons:

Month	ICMP Recommended Irrigation Rate (Inches)(1)	Required Irrigation Rate (Inches)	Flow (Gallons)	Number of Days to Irrigation (Days)
Jan-2024	0.00	0.00	0	0
Feb-2024	0.00	0.00	0	0
Mar-2024	0.00	0.00	0	0
Apr-2024	0.73	0.58	1,082,684	2
May-2024	4.23	3.35	6,273,637	11
Jun-2024	6.14	4.86	9,106,415	16
Jul-2024	7.81	6.18	11,583,241	21
Aug-2024	5.38	4.26	7,979,236	14
Sep-2024	2.68	2.12	3,974,787	7
Oct-2024	0.00	0.00	0	0
Nov-2024	0.00	0.00	0	0
Dec-2024	0.00	0.00	0	0
Total	26.97	21.35	40,000,000	71

Note: (1) From Table 5 of the 2019 ICMP, Net Irrigation Required Column

Total lbs. of Nitrogen per year based on: 20.8 mg/l

Loss based on 50% (Comprehensive Sewer Plan Update, August 1998, states 75% loss)

Total gallons to be irrigated: 40,000,000

Nitrogen: =Flow (MG)*20.8*8.34 6939

Expected Loss: 50% 3469

3469 lbs / yr

Loading: 3469 lbs / yr

divided by 69 acres

50.3 lbs / acre

divided by 50.3 lbs / acre

71 days

0.71 per day

Month	Flow (Gallons)	Number of Days to Irrigation (Days)	Nitrogen Loading (Pounds/Acre)
Jan-2024	0	0	0.0
Feb-2024	0	0	0.0
Mar-2024	0	0	0.0
Apr-2024	1,082,684	2	1.4
May-2024	6,273,637	11	7.9
Jun-2024	9,106,415	16	11.4
Jul-2024	11,583,241	21	14.6
Aug-2024	7,979,236	14	10.0
Sep-2024	3,974,787	7	5.0
Oct-2024	0	0	0.0
Nov-2024	0	0	0.0
Dec-2024	0	0	0.0
Total	40,000,000	71	50.3

Actual Irrigated GPH average last year:		25,990.90	(May - Oct)	
Spring Lagoons:	10' Maximum / Estimate	1,600,000	8' in #1	Maximum
	10' Maximum / Estimate	9,000,000	9' in #2	2 Million
	10' Maximum / Estimate	14,000,000	7' in #3	10 Million
	10' Maximum / Estimate	14,000,000	7' in #4	20 Million
	Approximately	38,600,000	in April in all lagoons	
Less 3' to be left in all 4 lagoons in the fall:				
			<u>feet</u>	
#1	200,000	gal. per foot	3	600,000
#2	1,000,000	gal. per foot	3	3,000,000
#3	2,000,000	gal. per foot	3	6,000,000
#4	2,000,000	gal. per foot	3	6,000,000
Approximate gallons to be left in the fall:				15,600,000
2024 Summer Months:		16,951,903	(May - September)	
Gallons to Irrigate:				
		38,600,000	In April in all lagoons	
		15,600,000	To be left in the fall	
		17,000,000	Accumulated during summer months	
		40,000,000	Gallons to Irrigate	
	Estimate of	40,000,000	gallons to irrigate next year	
2024 6 month winter flows		15,680,052	(Oct - Mar)	
(Evaporation unknown factor, did not allow for any)				

LOON LAKE SEWER DISTRICT NO. 4 NITROGEN CALCULATION WORKSHEET

TONNAGE, ACREAGE, AND TOTAL NITROGEN OF CROP:

			Sample Type 1 (Grass / Alfalfa)					
	Total Tonnage Wet	Total Acreage	Acreage	Moisture Content	TKN Conc. Dry	TKN Removed	Nitrate-N Conc. Dry	Nitrate-N Removed
1ST CUTTING	45	69	45	8.43%	1.51%	812	0.0132%	7.09
2ND CUTTING	22	69	45	8.91%	1.98%	518	0.0041%	1.07
3RD CUTTING	0	0						
	67					1329		8.17

	Sample Type 2 (alfalfa)					
	Acreage	Moisture Content	TKN Conc. Dry	TKN Removed	Nitrate-N Conc. Dry	Nitrate-N Removed
1ST CUTTING	24	7.96%	1.93%	556	0.0151%	4.4
2ND CUTTING	24	8.78%	2.37%	331	0.0104%	1.45
3RD CUTTING						
				887		5.80

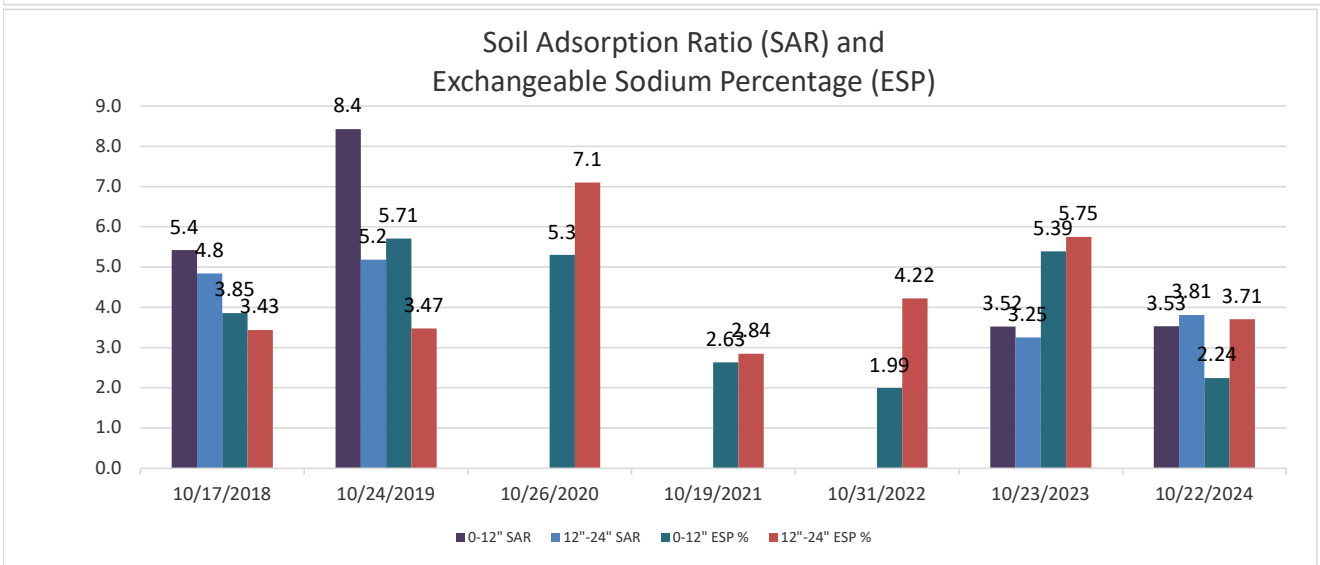
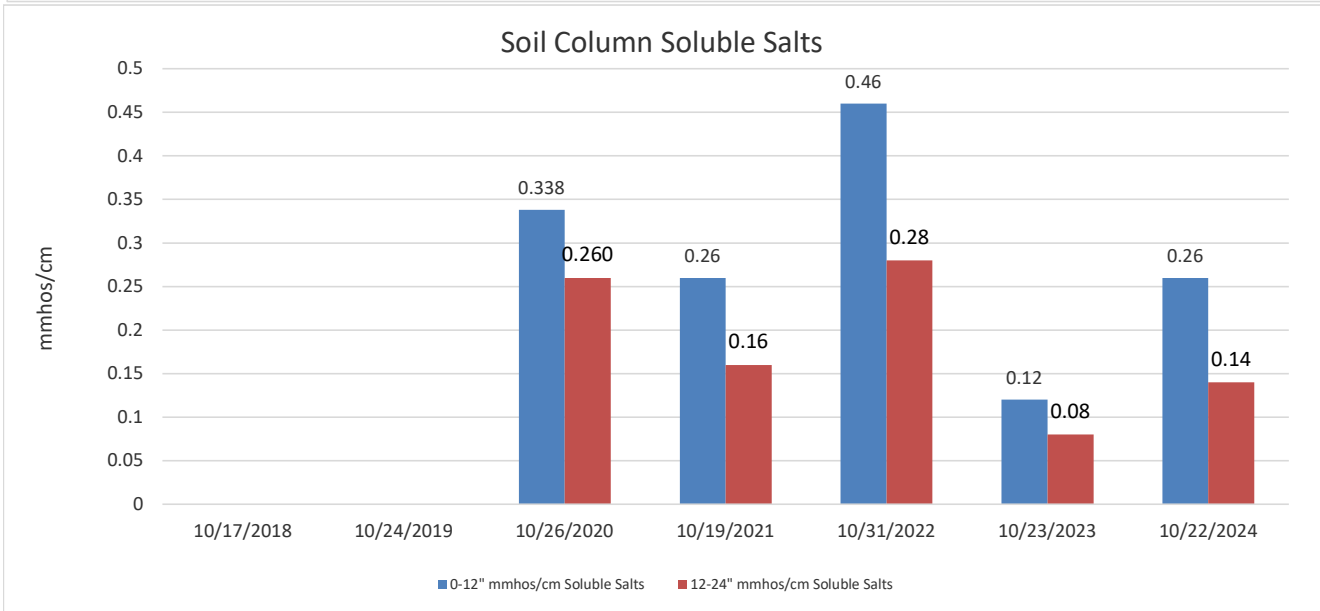
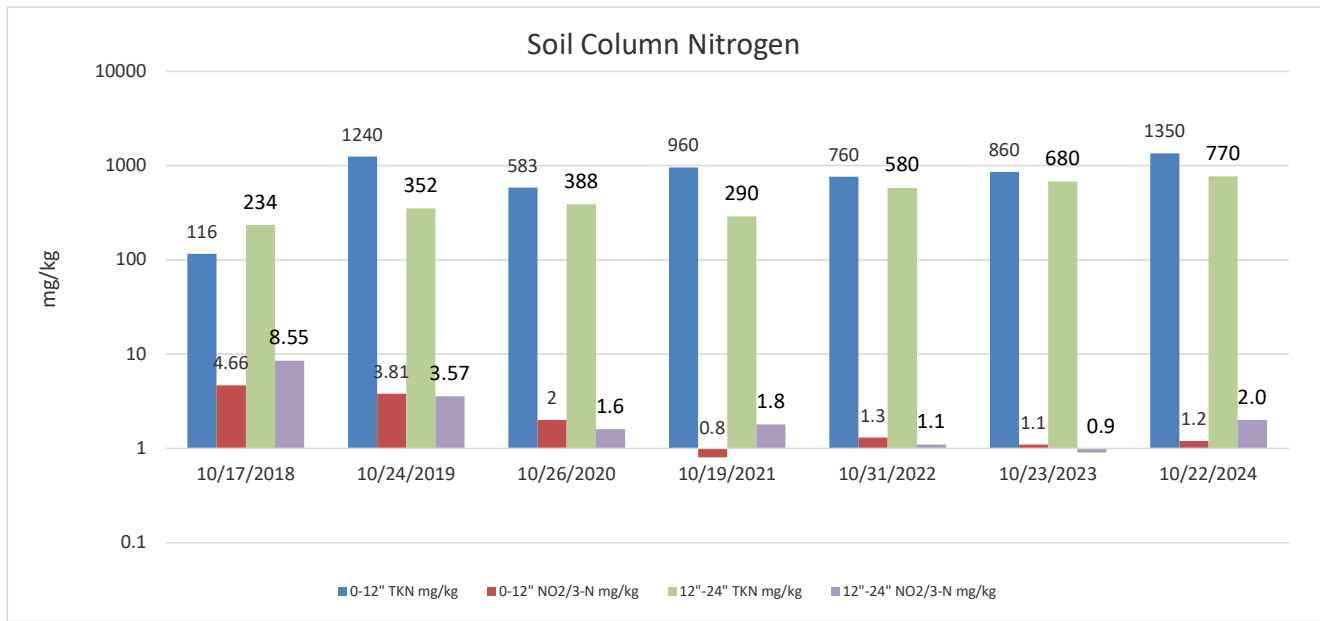
Nitrogen Removal by Crop: 2,230 pounds

Divided by: 69 acres = 32 #/acre

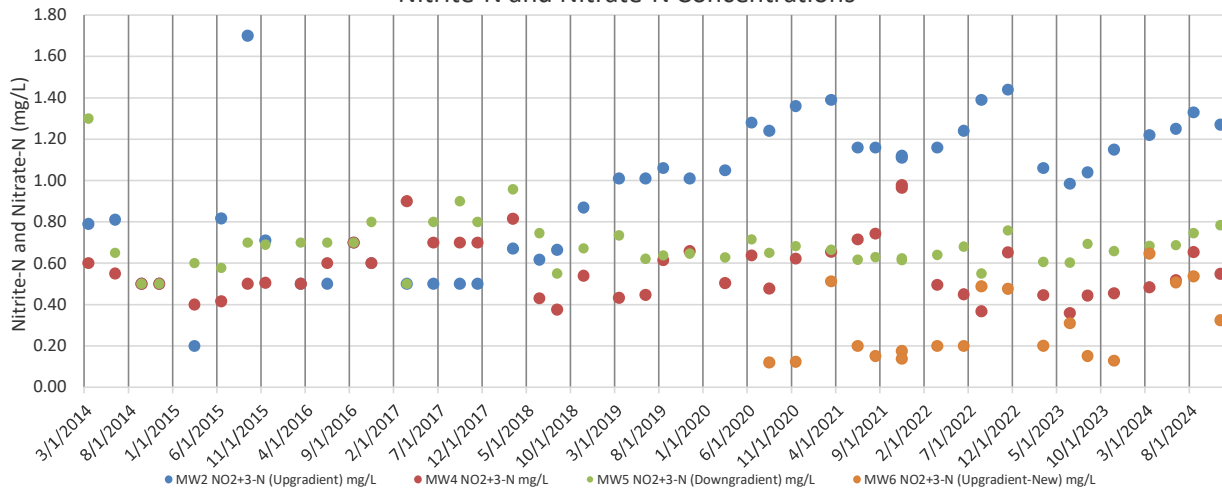
Nitrogen Applied last year: 2,211 # = 32 #/acre

Monthly Irrigation Flow		Final Effluent		Total
	(Total Flow on Effluent)	Nitrogen (TKN)	Factor	Nitrogen
March	0.00	0.00	8.34	0
April	0.00	0.00	8.34	0
May	0.00	0.00	8.34	0
June	9.88	4.93	8.34	406
July	13.94	3.80	8.34	442
August	4.30	31.40	8.34	1125
September	9.04	3.16	8.34	238
October	0.00	0.00	8.34	0
Total	37.15			2,211
Average Nitrogen Concentration (mg/L)				7.14

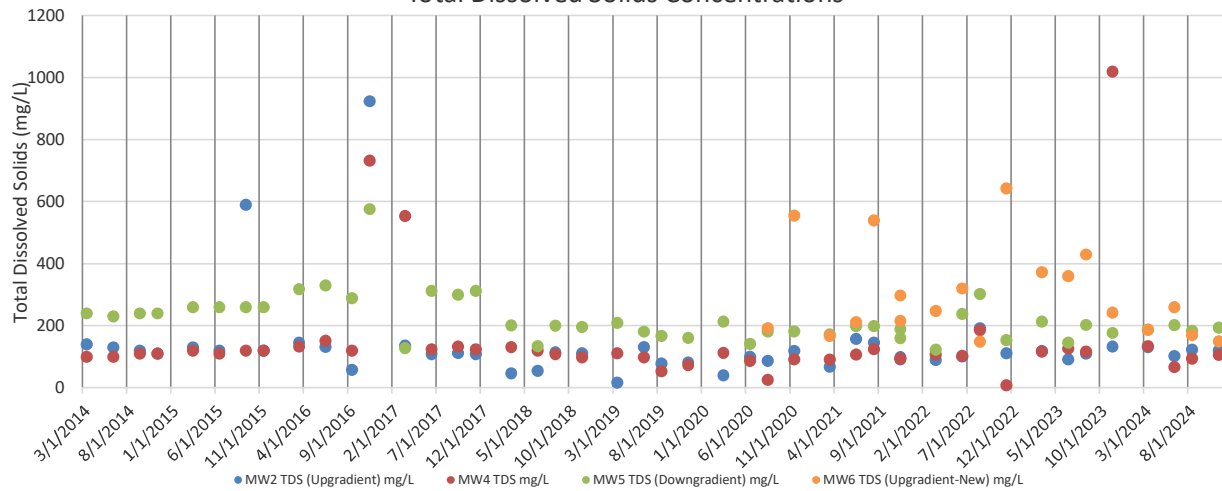
Nitrogen Applied from Fertilizer (pounds) 0 #/acre



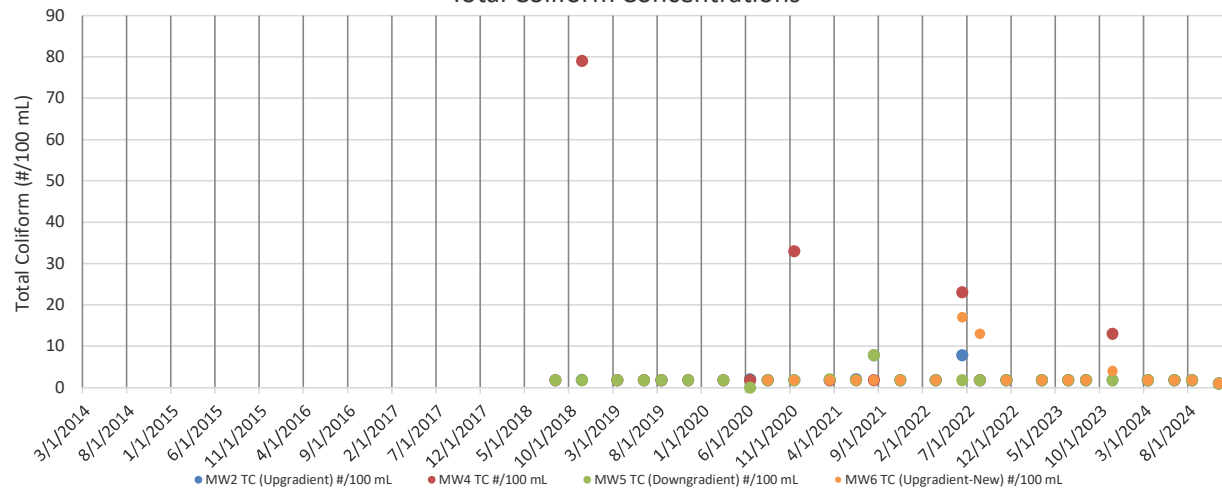
Groundwater Monitoring Well Nitrite-N and Nitrate-N Concentrations



Groundwater Monitoring Well Total Dissolved Solids Concentrations



Groundwater Monitoring Well Total Coliform Concentrations



LOON LAKE SEWER DISTRICT NO. 4 FARM LEASE INFORMATION

SUMMER MONTHS:

Type of fertilizer used:

Date	Quantity

Farm activity log: (items such as harvesting, yields, type of crop, methods, etc.)

DATE 2024

June 15 - July 1	1 st Cutting hay
Aug 1 - Aug 15	2 nd Cutting hay

FALL:

Total Nitrogen
from crop sample

Total tonnage of crop from first cutting:

45 tons

Total tonnage of crop from second cutting:

22 tons

Total tonnage of crop from third cutting:

0

Type of crop for next year:

Grass Alfalfa Mix

Anticipated tonnage:

Anticipated cutting dates:

June 10 - Aug 10

Anticipated farming methods: (replanting a portion of the acreage, etc.)

May replant approx 20 acres

1st cutting



Feed Analysis Report

Date: July 11, 2024
Report No: 108802
Grower: Loon Lake Sewer #4
Client: Loon Lake Sewer #4

Sampler: Jim Dearing
Sample ID: 24 Acres of Grass/Alfalfa
Sample Type: Alfalfa
Lab No: 2134

Nutrients	Units	As Received	100% Dry Matter
Moisture	%	7.96	
Dry Matter	%	92.04	100.00
Dry Ash	%	25.73	27.96
Crude Protein	%	11.22	12.19
Total Nitrogen	%	1.79	1.95
Total Kjeldahl Nitrogen (TKN)	%	1.78	1.93
Nitrate Nitrogen (NO3-N)	ppm	139	151
Calcium (Ca)	%	0.64	0.70
Magnesium (Mg)	%	0.27	0.29
Phosphorus (P)	%	0.28	0.30
Potassium (K)	%	1.93	2.10
Sodium (Na)	ppm	537.61	584.10
Chloride (Cl)	ppm	7842	8521



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(509) 488-0112 info@kuotestinglabs.com

1st cutting



Feed Analysis Report

Date: July 11, 2024
Report No: 108802
Grower: Loon Lake Sewer #4
Client: Loon Lake Sewer #4

Sampler: Jim Dearing
Sample ID: 45 Acres of Grass
Sample Type: Grass
Lab No: 2133

Nutrients	Units	As Received	100% Dry Matter
Moisture	%	8.43	
Dry Matter	%	91.57	100.00
Dry Ash	%	10.18	11.12
Crude Protein	%	8.70	9.50
Total Nitrogen	%	1.39	1.52
Total Kjeldahl Nitrogen (TKN)	%	1.38	1.51
Nitrate Nitrogen (NO3-N)	ppm	121	132
Calcium (Ca)	%	0.33	0.36
Magnesium (Mg)	%	0.21	0.23
Phosphorus (P)	%	0.32	0.35
Potassium (K)	%	2.11	2.30
Sodium (Na)	ppm	186.16	203.30
Chloride (Cl)	ppm	8765	9571



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Feed Analysis Report

Date: August 23, 2024
Report No: 109953
Grower: Loon Lake Sewer #4
Client: Loon Lake Sewer #4

Sampler: Jim Dearing
Sample ID: 45 Acres of Grass
Sample Type: Grass
Lab No: 2170

Nutrients	Units	As Received	100% Dry Matter
Moisture	%	8.91	
Dry Matter	%	91.09	100.00
Dry Ash	%	9.24	10.14
Crude Protein	%	11.28	12.38
Total Nitrogen	%	1.80	1.98
Total Kjeldahl Nitrogen (TKN)	%	1.80	1.98
Nitrate Nitrogen (NO3-N)	ppm	37	41
Calcium (Ca)	%	0.39	0.43
Magnesium (Mg)	%	0.27	0.30
Phosphorus (P)	%	0.40	0.44
Potassium (K)	%	1.97	2.16
Sodium (Na)	ppm	264.71	290.60
Chloride (Cl)	ppm	8936	9811



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Feed Analysis Report

Date: August 23, 2024

Sampler: Jim Dearing

Report No: 109953

Sample ID: 24 Acres of Grass/Alfalfa

Grower: Loon Lake Sewer #4

Sample Type: Alfalfa

Client: Loon Lake Sewer #4

Lab No: 2171

Nutrients	Units	As Received	100% Dry Matter
Moisture	%	8.78	
Dry Matter	%	91.22	100.00
Dry Ash	%	9.55	10.47
Crude Protein	%	13.57	14.88
Total Nitrogen	%	2.17	2.38
Total Kjeldahl Nitrogen (TKN)	%	2.16	2.37
Nitrate Nitrogen (NO3-N)	ppm	95	104
Calcium (Ca)	%	0.54	0.59
Magnesium (Mg)	%	0.26	0.29
Phosphorus (P)	%	0.32	0.35
Potassium (K)	%	1.85	2.03
Sodium (Na)	ppm	199.59	218.80
Chloride (Cl)	ppm	7303	8006



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Anatek Labs, Inc.

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEA0312
Project: LLSD4
Reported: 1/24/2024 16:27

Analytical Results Report

Sample Location: DL Influent
Lab/Sample Number: WEA0312-01 **Collect Date:** 01/09/24 00:00
Date Received: 01/10/24 08:55 **Collected By:** Brooke Lyons
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	35.8	mg/L	0.400	0.800	1/18/24 11:50	LED	SM 4500-NH3 H	
BOD	204	mg/L	2.00	2.00	1/15/24 12:55	SCD	SM 5210 B	
FDS	160	mg/L			1/17/24 17:50	EAF	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0197	mg/L	0.00700	0.100	1/11/24 11:39	LED	SM 4500-NO3 F	J
TKN	45.0	mg/L	1.30	10.0	1/16/24 15:31	LED	SM 4500-Norg C	
Total Nitrogen	45.0	mg/L	1.31	10.1	1/16/24 15:31	LED	Calculation	*
TSS	22.5	mg/L			1/13/24 16:05	EAF	SM 2540 D	

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Sample Location: LL Influent
Lab/Sample Number: WEA0312-02 Collect Date: 01/09/24 00:00
Date Received: 01/10/24 08:55 Collected By: Brooke Lyons
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	46.9	mg/L	0.400	0.800	1/18/24 11:52	LED	SM 4500-NH3 H	
BOD	210	mg/L	2.00	2.00	1/15/24 12:56	SCD	SM 5210 B	
FDS	200	mg/L			1/17/24 17:50	EAF	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0240	mg/L	0.00700	0.100	1/11/24 11:40	LED	SM 4500-NO3 F	J
TKN	52.7	mg/L	2.60	20.0	1/16/24 15:32	LED	SM 4500-Norg C	
Total Nitrogen	52.7	mg/L	2.61	20.1	1/16/24 15:32	LED	Calculation	*
TSS	30.0	mg/L			1/13/24 16:05	EAF	SM 2540 D	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEB0251
Project: LLSD4
Reported: 2/23/2024 17:10

Analytical Results Report

Sample Location: DL Influent
Lab/Sample Number: WEB0251-01 **Collect Date:** 02/06/24 08:00
Date Received: 02/07/24 09:13 **Collected By:** Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	33.7	mg/L	0.400	0.800	2/8/24 12:16	AAI	SM 4500-NH3 H	
BOD	84.3	mg/L	2.00	2.00	2/12/24 11:53	SCD	SM 5210 B	
FDS	188	mg/L			2/13/24 9:44	SCD	SM 2540 E	*
Nitrate/N + Nitrite/N	<0.00700	mg/L	0.00700	0.100	2/8/24 16:39	AAI	SM 4500-NO3 F	
TKN as N	40.6	mg/L	1.40	10.0	2/20/24 16:39	LED	SM 4500-Norg C	
Total Nitrogen	40.6	mg/L	1.41	10.1	2/20/24 16:39	LED	Calculation	*
TSS	21.5	mg/L			2/12/24 0:00	SCD	SM 2540 D	

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Sample Location: LL Influent
Lab/Sample Number: WEB0251-02 Collect Date: 02/06/24 08:00
Date Received: 02/07/24 09:13 Collected By: Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	46.7	mg/L	0.400	0.800	2/8/24 12:17	AAI	SM 4500-NH3 H	
BOD	146	mg/L	2.00	2.00	2/12/24 11:58	SCD	SM 5210 B	
FDS	151	mg/L			2/13/24 9:44	SCD	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0201	mg/L	0.00700	0.100	2/8/24 16:44	AAI	SM 4500-NO3 F	J
TKN as N	59.3	mg/L	2.80	20.0	2/20/24 16:41	LED	SM 4500-Norg C	
Total Nitrogen	59.3	mg/L	2.81	20.1	2/20/24 16:41	LED	Calculation	*
TSS	49.0	mg/L			2/12/24 0:00	SCD	SM 2540 D	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEC0113
Project: LLSD4
Reported: 3/18/2024 15:09

Analytical Results Report

Sample Location: LL Influent
Lab/Sample Number: WEC0113-01 **Collect Date:** 03/05/24 09:00
Date Received: 03/05/24 10:55 **Collected By:** Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	43.1	mg/L	0.400	0.800	3/8/24 14:25	LED	SM 4500-NH3 H	
BOD	90.5	mg/L	2.00	2.00	3/11/24 10:03	SCD	SM 5210 B	
FDS	260	mg/L			3/5/24 14:10	SCD	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0204	mg/L	0.00700	0.100	3/5/24 13:07	LED	SM 4500-NO3 F	J
TKN as N	49.5	mg/L	1.40	10.0	3/11/24 16:45	LED	SM 4500-Norg C	
Total Nitrogen	49.6	mg/L	1.41	10.1	3/11/24 16:45	LED	Calculation	*
TSS	28.0	mg/L			3/8/24 0:00	SCD	SM 2540 D	

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Sample Location: DL Influent
Lab/Sample Number: WEC0113-02 Collect Date: 03/05/24 09:00
Date Received: 03/05/24 10:55 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	36.7	mg/L	0.400	0.800	3/8/24 14:26	LED	SM 4500-NH3 H	
BOD	69.2	mg/L	2.00	2.00	3/11/24 10:06	SCD	SM 5210 B	
FDS	253	mg/L			3/5/24 14:10	SCD	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0165	mg/L	0.00700	0.100	3/5/24 13:09	LED	SM 4500-NO3 F	J
TKN as N	38.3	mg/L	1.40	10.0	3/11/24 16:49	LED	SM 4500-Norg C	
Total Nitrogen	38.3	mg/L	1.41	10.1	3/11/24 16:49	LED	Calculation	*
TSS	24.0	mg/L			3/11/24 11:15	SCD	SM 2540 D	

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Sample Location: Well #2
Lab/Sample Number: WEC0113-03 Collect Date: 03/05/24 08:45
Date Received: 03/05/24 10:55 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	3/8/24 12:49	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	1.22	mg/L	0.0190	0.100	3/5/24 18:50	AAI	EPA 300.0	
Nitrite/N	ND	mg/L	0.0480	0.100	3/5/24 18:50	AAI	EPA 300.0	
TDS	131	mg/L			3/13/24 10:28	SCD	SM 2540 C	

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Sample Location: Well #4
Lab/Sample Number: WEC0113-04 Collect Date: 03/05/24 08:30
Date Received: 03/05/24 10:55 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	3/7/24 13:50	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.484	mg/L	0.0190	0.100	3/5/24 19:10	AAI	EPA 300.0	
Nitrite/N	ND	mg/L	0.0480	0.100	3/5/24 19:10	AAI	EPA 300.0	
TDS	134	mg/L			3/13/24 10:28	SCD	SM 2540 C	

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Sample Location: Well #5
Lab/Sample Number: WEC0113-05 Collect Date: 03/05/24 08:15
Date Received: 03/05/24 10:55 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	3/7/24 13:50	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.684	mg/L	0.0190	0.100	3/5/24 19:30	AAI	EPA 300.0	
Nitrite/N	ND	mg/L	0.0480	0.100	3/5/24 19:30	AAI	EPA 300.0	
TDS	188	mg/L			3/13/24 10:28	SCD	SM 2540 C	

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Sample Location: Well #6
Lab/Sample Number: WEC0113-06 Collect Date: 03/05/24 09:00
Date Received: 03/05/24 10:55 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	3/7/24 13:50	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.646	mg/L	0.0190	0.100	3/5/24 19:50	AAI	EPA 300.0	
Nitrite/N	ND	mg/L	0.0480	0.100	3/5/24 19:50	AAI	EPA 300.0	
TDS	187	mg/L			3/13/24 10:28	SCD	SM 2540 C	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WED0179
Project: LLSD4
Reported: 4/17/2024 09:20

Analytical Results Report

Sample Location: LL Influent
Lab/Sample Number: WED0179-01 **Collect Date:** 04/02/24 09:00
Date Received: 04/03/24 08:50 **Collected By:** Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	53.5	mg/L	0.400	0.800	4/4/24 14:28	LED	SM 4500-NH3 H	
BOD	106	mg/L	2.00	2.00	4/8/24 11:31	SCD	SM 5210 B	
FDS	44.0	mg/L			4/4/24 11:24	DKB	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0224	mg/L	0.00700	0.100	4/5/24 10:08	LED	SM 4500-NO3 F	J
TKN as N	55.4	mg/L	1.40	10.0	4/11/24 15:39	LED	SM 4500-NorgC/NH 3-G	
Total Nitrogen	55.5	mg/L	1.41	10.1	4/11/24 15:39	LED	Calculation	*
TSS	32.0	mg/L			4/4/24 15:11	DKB	SM 2540 D	

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Sample Location: DL Influent
Lab/Sample Number: WED0179-02 Collect Date: 04/02/24 09:00
Date Received: 04/03/24 08:50 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	45.3	mg/L	0.400	0.800	4/4/24 14:29	LED	SM 4500-NH3 H	
BOD	82.3	mg/L	2.00	2.00	4/8/24 11:37	SCD	SM 5210 B	
FDS	262	mg/L			4/4/24 11:24	DKB	SM 2540 E	*
Nitrate/N + Nitrite/N	0.0177	mg/L	0.00700	0.100	4/5/24 10:09	LED	SM 4500-NO3 F	J
TKN as N	46.8	mg/L	1.40	10.0	4/11/24 15:41	LED	SM 4500-NorgC/NH 3-G	
Total Nitrogen	46.8	mg/L	1.41	10.1	4/11/24 15:41	LED	Calculation	*
TSS	17.3	mg/L			4/4/24 15:11	DKB	SM 2540 D	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEE0344
Project: LLSD4
Reported: 5/29/2024 14:58

Analytical Results Report

Sample Location: Loon Lake Influent
Lab/Sample Number: WEE0344-01 **Collect Date:** 05/07/24 08:00
Date Received: 05/08/24 08:45 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	52.8	mg/L	0.400	0.800	5/14/24 10:17	LED	SM 4500-NH3 H	
BOD	77.2	mg/L	2.00	2.00	5/13/24 13:52	SCD	SM 5210 B	
FDS	272	mg/L			5/9/24 11:31	DKB	SM 2540 E	
Nitrate/N + Nitrite/N	0.0256	mg/L	0.00700	0.100	5/10/24 10:55	LED	SM 4500-NO3 F	J
TKN as N	61.6	mg/L	1.40	10.0	5/15/24 15:24	LED	SM 4500-NorgC/NH 3-G	
Total Nitrogen	61.6	mg/L	1.41	10.1	5/15/24 15:24	LED	Calculation	*
TSS	30.0	mg/L			5/9/24 14:54	DKB	SM 2540 D	

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Sample Location: Deer Lake Influent
Lab/Sample Number: WEE0344-02 Collect Date: 05/07/24 08:00
Date Received: 05/08/24 08:45 Collected By: Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	45.2	mg/L	0.400	0.800	5/14/24 10:18	LED	SM 4500-NH3 H	
BOD	63.0	mg/L	2.00	2.00	5/13/24 13:56	SCD	SM 5210 B	
FDS	196	mg/L			5/9/24 11:31	DKB	SM 2540 E	
Nitrate/N + Nitrite/N	0.0232	mg/L	0.00700	0.100	5/10/24 10:56	LED	SM 4500-NO3 F	J
TKN as N	60.9	mg/L	1.40	10.0	5/15/24 15:25	LED	SM 4500-NorgC/NH 3-G	
Total Nitrogen	60.9	mg/L	1.41	10.1	5/15/24 15:25	LED	Calculation	*
TSS	21.0	mg/L			5/9/24 14:54	DKB	SM 2540 D	

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Sample Location: Effluent Pond
Lab/Sample Number: WEE0344-03 Collect Date: 05/07/24 08:00
Date Received: 05/08/24 08:45 Collected By: Kevin Shaw
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
BOD	2.49	mg/L	2.00	2.00	5/13/24 13:58	SCD	SM 5210 B	
Chloride	38.1	mg/L	0.320	1.50	5/21/24 4:23	BDM	EPA 300.0	
Conductivity	459 @ 25°C	µmhos/cm	10.0	10.0	5/13/24 17:25	ILG	SM 2510 B	
FDS	218	mg/L			5/9/24 11:31	DKB	SM 2540 E	
TKN as N	6.94	mg/L	0.280	2.00	5/15/24 15:57	LED	SM 4500-NorgC/NH 3-G	
Total Phosphorus (PO4 + Org P) as P	2.52	mg/L	0.500	0.500	5/15/24 13:44	AAI	SM 4500-P H	
TSS	9.33	mg/L			5/9/24 14:54	DKB	SM 2540 D	
Metals by ICP-MS								
Calcium	21.3	mg/L	0.0328	0.100	5/16/24 18:55	JLG	EPA 200.8	
Potassium	11.7	mg/L	0.0634	0.100	5/16/24 18:55	JLG	EPA 200.8	
Magnesium	9.70	mg/L	0.0384	0.100	5/16/24 18:55	JLG	EPA 200.8	
Sodium	32.6	mg/L	0.100	0.100	5/16/24 18:55	JLG	EPA 200.8	M1
Sodium Absorption Ratio	1.47	meq/L	0.100	0.100	5/16/24 18:55	JLG	EPA 200.8	*

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEF0414
Project: LLSD4
Reported: 6/19/2024 18:07

Analytical Results Report

Sample Location: Irrigation
Lab/Sample Number: WEF0414-01 Collect Date: 06/11/24 10:45
Date Received: 06/11/24 11:47 Collected By: Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	46.0	MPN/100mL	1.80	1.80	6/12/24 13:22	SBS	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEF0731
Project: LLSD4
Reported: 6/25/2024 10:25

Analytical Results Report

Sample Location: Irrigation
Lab/Sample Number: WEF0731-01 **Collect Date:** 06/18/24 09:00
Date Received: 06/18/24 09:47 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	<1.8	MPN/100mL	1.80	1.80	6/19/24 12:39	SBS	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEF0186
Project: LLSD4
Reported: 6/25/2024 10:13

Analytical Results Report

Sample Location: Effluent Pond
Lab/Sample Number: WEF0186-01 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:11 Collected By: Kevin Shaw
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	<1.8	MPN/100mL	1.80	1.80	6/6/24 14:59	SBS	SM 9221 E2+C (A1)	
Inorganics								
BOD	3.72	mg/L	2.00	2.00	6/10/24 12:56	SCD	SM 5210 B	
Chloride	4.26	mg/L	0.0320	0.150	6/22/24 4:19	BDM	EPA 300.0	
Conductivity	478 @ 25°C	µmhos/cm	10.0	10.0	6/5/24 17:02	ILG	SM 2510 B	
FDS	218	mg/L			6/11/24 14:08	dkb	SM 2540 E	
TKN as N	4.93	mg/L	0.0700	0.500	6/10/24 13:45	AAI	SM 4500-NorgC/NH 3-G	
Total Phosphorus (PO4 + Org P) as P	1.53	mg/L	0.400	0.400	6/11/24 15:01	AAI	SM 4500-P H	
TSS	2.50	mg/L			6/10/24 12:04	dkb	SM 2540 D	
Metals by ICP-MS								
Calcium	25.5	mg/L	0.0328	0.100	6/21/24 15:18	JLG	EPA 200.8	
Potassium	13.5	mg/L	0.0634	0.100	6/21/24 15:18	JLG	EPA 200.8	
Magnesium	12.1	mg/L	0.0384	0.100	6/21/24 15:18	JLG	EPA 200.8	
Sodium	39.4	mg/L	0.100	0.100	6/21/24 15:18	JLG	EPA 200.8	
Sodium Absorption Ratio	1.61	meq/L	0.100	0.100	6/21/24 15:18	JLG	EPA 200.8	*

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEF0185
Project: LLSD4
Reported: 6/25/2024 10:13

Analytical Results Report

Sample Location: LL Influent
Lab/Sample Number: WEF0185-01 **Collect Date:** 06/05/24 08:00
Date Received: 06/05/24 10:16 **Collected By:** Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	46.1	mg/L	0.400	0.800	6/7/24 14:06	AAI	SM 4500-NH3 H	
BOD	71.2	mg/L	2.00	2.00	6/10/24 13:19	SCD	SM 5210 B	
FDS	220	mg/L			6/11/24 14:08	dkb	SM 2540 E	
Nitrate/N + Nitrite/N	0.00920	mg/L	0.00700	0.100	6/12/24 12:32	AAI	SM 4500-NO3 F	J
TDS	256	mg/L			6/11/24 14:08	dkb	SM 2540 C	
TKN as N	50.8	mg/L	1.40	10.0	6/10/24 14:31	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	50.8	mg/L	1.41	10.1	6/12/24 12:32	AAI	Calculation	*
TSS	22.7	mg/L			6/10/24 12:04	dkb	SM 2540 D	

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Sample Location: DL Influent
Lab/Sample Number: WEF0185-02 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:16 Collected By: Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	45.9	mg/L	0.400	0.800	6/7/24 14:08	AAI	SM 4500-NH3 H	
BOD	109	mg/L	2.00	2.00	6/10/24 12:54	SCD	SM 5210 B	
FDS	272	mg/L			6/11/24 14:08	dkb	SM 2540 E	
Nitrate/N + Nitrite/N	0.0210	mg/L	0.00700	0.100	6/12/24 12:33	AAI	SM 4500-NO3 F	J
TDS	280	mg/L			6/11/24 14:08	dkb	SM 2540 C	
TKN as N	53.1	mg/L	1.40	10.0	6/10/24 14:33	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	53.2	mg/L	1.41	10.1	6/12/24 12:33	AAI	Calculation	*
TSS	24.0	mg/L			6/10/24 12:04	dkb	SM 2540 D	

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Sample Location: Well #2
Lab/Sample Number: WEF0185-03 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:16 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	6/7/24 10:53	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	1.25	mg/L	0.0190	0.100	6/5/24 21:37	BDM	EPA 300.0	M1
Nitrate/N + Nitrite/N	1.25	mg/L	0.0670	0.200	6/5/24 21:37	BDM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	6/5/24 21:37	BDM	EPA 300.0	M1
TDS	102	mg/L			6/11/24 14:08	dkb	SM 2540 C	

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Sample Location: Well #4
Lab/Sample Number: WEF0185-04 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:16 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	6/7/24 10:53	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.518	mg/L	0.0190	0.100	6/5/24 21:16	BDM	EPA 300.0	M1
Nitrate/N + Nitrite/N	0.518	mg/L	0.0670	0.200	6/5/24 21:16	BDM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	6/5/24 21:16	BDM	EPA 300.0	M1
TDS	67.0	mg/L			6/11/24 14:08	dkb	SM 2540 C	

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Sample Location: Well #5
Lab/Sample Number: WEF0185-05 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:16 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	6/7/24 10:53	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.688	mg/L	0.0190	0.100	6/5/24 20:55	BDM	EPA 300.0	M1
Nitrate/N + Nitrite/N	0.688	mg/L	0.0670	0.200	6/5/24 20:55	BDM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	6/5/24 20:55	BDM	EPA 300.0	M1
TDS	202	mg/L			6/11/24 14:08	dkb	SM 2540 C	

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Sample Location: Well #6
Lab/Sample Number: WEF0185-06 Collect Date: 06/05/24 08:00
Date Received: 06/05/24 10:16 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	6/7/24 10:53	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.507	mg/L	0.0190	0.100	6/5/24 20:34	BDM	EPA 300.0	M1
Nitrate/N + Nitrite/N	0.507	mg/L	0.0670	0.200	6/5/24 20:34	BDM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	6/5/24 20:34	BDM	EPA 300.0	M1
TDS	260	mg/L			6/11/24 14:08	dkb	SM 2540 C	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEG0289
Project: LLSD4
Reported: 7/28/2024 20:28

Analytical Results Report

Sample Location: LL INF
Lab/Sample Number: WEG0289-01 **Collect Date:** 07/09/24 08:00
Date Received: 07/09/24 09:30 **Collected By:** Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	55.1	mg/L	0.400	0.800	7/15/24 11:20	AAI	SM 4500-NH3 H	
BOD	121	mg/L	2.00	2.00	7/15/24 9:47	sarah	SM 5210 B	
FDS	266	mg/L			7/23/24 16:36	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.00720	mg/L	0.00700	0.100	7/11/24 8:51	AAI	SM 4500-NO3 F	J
TDS	355	mg/L			7/18/24 15:47	EMG	SM 2540 C	
TKN as N	65.1	mg/L	1.40	10.0	7/16/24 14:50	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	65.1	mg/L	1.41	10.1	7/16/24 14:50	AAI	Calculation	*
TSS	40.0	mg/L			7/12/24 10:11	EMG	SM 2540 D	

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Sample Location: DL INF
Lab/Sample Number: WEG0289-02 Collect Date: 07/09/24 08:30
Date Received: 07/09/24 09:30 Collected By: Kevin Shaw
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	59.8	mg/L	0.400	0.800	7/15/24 11:21	AAI	SM 4500-NH3 H	
BOD	119	mg/L	2.00	2.00	7/15/24 9:53	sarah	SM 5210 B	
FDS	209	mg/L			7/23/24 16:36	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	<0.00700	mg/L	0.00700	0.100	7/11/24 8:56	AAI	SM 4500-NO3 F	
TDS	282	mg/L			7/18/24 15:47	EMG	SM 2540 C	
TKN as N	66.6	mg/L	1.40	10.0	7/16/24 14:52	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	66.6	mg/L	1.41	10.1	7/16/24 14:52	AAI	Calculation	*
TSS	43.0	mg/L			7/12/24 10:11	EMG	SM 2540 D	

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Sample Location: Effluent Pond
Lab/Sample Number: WEG0289-03 Collect Date: 07/09/24 08:00
Date Received: 07/09/24 09:30 Collected By: Kevin Shaw
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	2.00	MPN/100mL	1.80	1.80	7/10/24 10:58	SBS	SM 9221 E2+C (A1)	
Inorganics								
BOD	23.3	mg/L	2.00	2.00	7/15/24 9:55	sarah	SM 5210 B	
Chloride	46.3	mg/L	0.320	1.50	7/11/24 20:04	BDM	EPA 300.0	
Conductivity	509 @ 25°C	µmhos/cm	10.0	10.0	7/11/24 15:54	ARY	SM 2510 B	
FDS	211	mg/L			7/23/24 16:36	EMG	SM 2540 E	
TKN as N	3.80	mg/L	0.0700	0.500	7/16/24 15:01	AAI	SM 4500-NorgC/NH 3-G	
Total Phosphorus (PO4 + Org P) as P	1.72	mg/L	0.400	0.400	7/11/24 12:31	AAI	SM 4500-P H	
TSS	17.6	mg/L			7/12/24 10:11	EMG	SM 2540 D	
Metals by ICP-MS								
Calcium	26.9	mg/L	0.0328	0.100	7/19/24 15:02	JLG	EPA 200.8	
Potassium	14.2	mg/L	0.0634	0.100	7/19/24 15:02	JLG	EPA 200.8	
Magnesium	12.6	mg/L	0.0384	0.100	7/19/24 15:02	JLG	EPA 200.8	
Sodium	41.3	mg/L	0.100	0.100	7/19/24 15:02	JLG	EPA 200.8	
Sodium Absorption Ratio	1.65	meq/L	0.100	0.100	7/19/24 15:02	JLG	EPA 200.8	*

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEG1253
Project: LLSD4
Reported: 8/6/2024 16:48

Analytical Results Report

Sample Location: Effluent Irrigation
Lab/Sample Number: WEG1253-01 **Collect Date:** 07/30/24 09:30
Date Received: 07/30/24 10:25 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	33.0	MPN/100mL	1.80	1.80	7/31/24 12:08	EMG	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEG1101
Project: LLSD4
Reported: 7/29/2024 12:36

Analytical Results Report

Sample Location: Irrigation Effluent
Lab/Sample Number: WEG1101-01 **Collect Date:** 07/25/24 09:00
Date Received: 07/25/24 09:50 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	4.50	MPN/100mL	1.80	1.80	7/26/24 12:50	KAS	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEG0669
Project: LLSD4
Reported: 7/21/2024 23:14

Analytical Results Report

Sample Location: Irrigation
Lab/Sample Number: WEG0669-01 **Collect Date:** 07/16/24 08:45
Date Received: 07/16/24 09:36 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	22.0	MPN/100mL	1.80	1.80	7/17/24 9:47	SBS	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEH1222
Project: LLSD4
Reported: 9/4/2024 13:05

Analytical Results Report

Sample Location: Effluent Irrigation
Lab/Sample Number: WEH1222-01 **Collect Date:** 08/27/24 08:30
Date Received: 08/27/24 09:23 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	33.0	MPN/100mL	1.80	1.80	8/28/24 14:37	SBS	SM 9221 E2+C (A1)	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEH0182
Project: LLSD4
Reported: 8/22/2024 10:22

Analytical Results Report

Sample Location: Loon Lake Influent
Lab/Sample Number: WEH0182-01 **Collect Date:** 08/06/24 09:30
Date Received: 08/06/24 10:40 **Collected By:** Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	58.3	mg/L	0.200	0.800	8/6/24 17:31	AAI	SM 4500-NH3 H	
BOD	98.5	mg/L	2.00	2.00	8/12/24 11:34	SCD	SM 5210 B	
FDS	282	mg/L			8/14/24 16:30	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0146	mg/L	0.00400	0.100	8/14/24 10:40	AAI	SM 4500-NO3 F	J
TDS	357	mg/L			8/19/24 16:09	EMG	SM 2540 C	
TKN as N	64.8	mg/L	1.20	10.0	8/13/24 16:12	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	64.8	mg/L	1.20	10.1	8/14/24 10:40	AAI	Calculation	*
TSS	27.0	mg/L			8/12/24 14:02	ARS	SM 2540 D	

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Sample Location: Deer Lake Influent
Lab/Sample Number: WEH0182-02 Collect Date: 08/06/24 09:30
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	60.4	mg/L	0.200	0.800	8/6/24 17:33	AAI	SM 4500-NH3 H	
BOD	82.1	mg/L	2.00	2.00	8/12/24 11:36	SCD	SM 5210 B	
FDS	210	mg/L			8/14/24 16:30	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0121	mg/L	0.00400	0.100	8/14/24 10:41	AAI	SM 4500-NO3 F	J
TDS	254	mg/L			8/19/24 16:09	EMG	SM 2540 C	
TKN as N	62.3	mg/L	1.20	10.0	8/13/24 15:16	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	62.3	mg/L	1.20	10.1	8/14/24 10:41	AAI	Calculation	*
TSS	19.0	mg/L			8/12/24 14:02	ARS	SM 2540 D	

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Sample Location: Irrigation Effluent
Lab/Sample Number: WEH0182-03 Collect Date: 08/06/24 09:45
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	23.0	MPN/100mL	1.80	1.80	8/7/24 12:19	SBS	SM 9221 E2+C (A1)	
Inorganics								
BOD	35.8	mg/L	2.00	2.00	8/12/24 11:46	SCD	SM 5210 B	
Chloride	50.2	mg/L	0.320	1.50	8/14/24 3:56	BDM	EPA 300.0	
Conductivity	533 @ 25°C	µmhos/cm	10.0	10.0	8/6/24 14:05	RLG	SM 2510 B	
FDS	211	mg/L			8/14/24 16:30	EMG	SM 2540 E	
TKN as N	31.4	mg/L	1.20	10.0	8/13/24 16:01	AAI	SM 4500-NorgC/NH 3-G	
Total Phosphorus (PO4 + Org P) as P	59.7	mg/L	10.0	10.0	8/9/24 14:31	AAI	SM 4500-P H	
TSS	40.0	mg/L			8/12/24 14:02	ARS	SM 2540 D	
Metals by ICP-MS								
Calcium	22.4	mg/L	0.0328	0.100	8/14/24 12:44	JLG	EPA 200.8	
Potassium	14.6	mg/L	0.0634	0.100	8/14/24 12:44	JLG	EPA 200.8	
Magnesium	12.3	mg/L	0.0384	0.100	8/14/24 12:44	JLG	EPA 200.8	
Sodium	40.5	mg/L	0.100	0.100	8/14/24 12:44	JLG	EPA 200.8	
Sodium Adsorption Ratio	1.70	meq/L	0.100	0.100	8/14/24 12:44	JLG	EPA 200.8	*

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Sample Location: Well #2
Lab/Sample Number: WEH0182-04 Collect Date: 08/06/24 08:30
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	8/8/24 12:25	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	1.33	mg/L	0.0190	0.100	8/7/24 7:45	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	1.33	mg/L	0.0670	0.200	8/7/24 7:45	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	8/7/24 7:45	BAM	EPA 300.0	
TDS	123	mg/L			8/19/24 16:09	EMG	SM 2540 C	

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Sample Location: Well #4
Lab/Sample Number: WEH0182-05 Collect Date: 08/06/24 08:45
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	8/8/24 12:25	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.654	mg/L	0.0190	0.100	8/7/24 13:27	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.654	mg/L	0.0670	0.200	8/7/24 13:27	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	8/7/24 13:27	BAM	EPA 300.0	
TDS	94.0	mg/L			8/19/24 16:09	EMG	SM 2540 C	

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Sample Location: Well #5
Lab/Sample Number: WEH0182-06 Collect Date: 08/06/24 09:00
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	8/8/24 12:25	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.745	mg/L	0.0190	0.100	8/7/24 15:32	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.745	mg/L	0.0670	0.200	8/7/24 15:32	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	8/7/24 15:32	BAM	EPA 300.0	
TDS	184	mg/L			8/19/24 16:09	EMG	SM 2540 C	

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Sample Location: Well #6
Lab/Sample Number: WEH0182-07 Collect Date: 08/06/24 09:15
Date Received: 08/06/24 10:40 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1.8	MPN/100mL	1.80	1.80	8/8/24 12:25	SBS	SM 9221 B+C	
Inorganics								
Nitrate/N	0.536	mg/L	0.0190	0.100	8/7/24 22:30	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.536	mg/L	0.0670	0.200	8/7/24 22:30	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	8/7/24 22:30	BAM	EPA 300.0	
TDS	170	mg/L			8/19/24 16:09	EMG	SM 2540 C	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEI0104
Project: LLSD4
Reported: 9/25/2024 07:24

Analytical Results Report

Sample Location: Loon Lake Influent
Lab/Sample Number: WEI0104-01 **Collect Date:** 09/04/24 10:18
Date Received: 09/04/24 10:18 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	63.2	mg/L	0.200	0.800	9/6/24 11:06	AAI	SM 4500-NH3 H	
BOD	112	mg/L	2.00	2.00	9/9/24 10:39	SCD	SM 5210 B	
FDS	301	mg/L			9/10/24 11:52	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0201	mg/L	0.00400	0.100	9/13/24 11:20	AAI	SM 4500-NO3 F	J
TDS	451	mg/L			9/10/24 15:19	EMG	SM 2540 C	
TKN as N	73.8	mg/L	2.40	20.0	9/10/24 15:25	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	73.9	mg/L	2.40	20.1	9/13/24 11:20	AAI	Calculation	*
TSS	28.0	mg/L			9/10/24 10:56	EMG	SM 2540 D	

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Sample Location: Deer Lake Influent
Lab/Sample Number: WEI0104-02 Collect Date: 09/04/24 00:00
Date Received: 09/04/24 10:18 Collected By: Kevin Shaw
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	61.3	mg/L	0.200	0.800	9/6/24 11:08	AAI	SM 4500-NH3 H	
BOD	89.2	mg/L	2.00	2.00	9/9/24 10:41	SCD	SM 5210 B	
FDS	218	mg/L			9/10/24 11:52	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0136	mg/L	0.00400	0.100	9/13/24 11:22	AAI	SM 4500-NO3 F	J
TDS	357	mg/L			9/10/24 15:19	EMG	SM 2540 C	
TKN as N	73.2	mg/L	2.40	20.0	9/10/24 15:27	AAI	SM 4500-NorgC/NH 3-G	
Total Nitrogen	73.2	mg/L	2.40	20.1	9/13/24 11:22	AAI	Calculation	*
TSS	17.5	mg/L			9/10/24 10:56	EMG	SM 2540 D	

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Sample Location: Irrigation Effluent
Lab/Sample Number: WEI0104-03 Collect Date: 09/04/24 00:00
Date Received: 09/04/24 10:18 Collected By: Kevin Shaw
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	49.0	MPN/100mL	1.80	1.80	9/5/24 15:28	SBS	SM 9221 E2+C (A1)	
Inorganics								
BOD	5.33	mg/L	2.00	2.00	9/9/24 11:21	SCD	SM 5210 B	
Chloride	57.2	mg/L	0.320	1.50	9/11/24 14:56	BAM	EPA 300.0	
Conductivity	602 @ 25°C	µmhos/cm	10.0	10.0	9/4/24 11:28	ALH	SM 2510 B	
FDS	257	mg/L			9/10/24 11:52	EMG	SM 2540 E	
TKN as N	3.16	mg/L	0.0600	0.500	9/10/24 15:28	AAI	SM 4500-NorgC/NH 3-G	
Total Phosphorus (PO4 + Org P) as P	2.15	mg/L	0.120	0.200	9/11/24 12:07	AAI	SM 4500-P H	
TSS	9.69	mg/L			9/10/24 10:56	EMG	SM 2540 D	
Metals by ICP-MS								
Calcium	23.5	mg/L	0.0328	0.100	9/12/24 21:19	JLG	EPA 200.8	M1
Potassium	16.1	mg/L	0.0634	0.100	9/12/24 21:19	JLG	EPA 200.8	M1
Magnesium	12.9	mg/L	0.0384	0.100	9/12/24 21:19	JLG	EPA 200.8	M1
Sodium	44.7	mg/L	0.100	0.100	9/12/24 21:19	JLG	EPA 200.8	M1
Sodium Adsorption Ratio	1.84	meq/L	0.100	0.100	9/12/24 21:19	JLG	EPA 200.8	*

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEI0315
Project: LLSD4
Reported: 9/23/2024 00:41

Analytical Results Report

Sample Location: Irrigation Eff
Lab/Sample Number: WEI0315-01 **Collect Date:** 09/10/24 08:30
Date Received: 09/10/24 09:38 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Fecal Coliform	4.00	MPN/100mL	1.80	1.80	9/11/24 9:50	SBS	SM 9221 E2+C (A1)	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEJ0504
Project: LLSD4
Reported: 10/29/2024 17:04

Analytical Results Report

Sample Location: LL INF
Lab/Sample Number: WEJ0504-01 **Collect Date:** 10/08/24 07:30
Date Received: 10/09/24 08:50 **Collected By:** Aimee Kowell
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	48.8	mg/L	0.200	0.800	10/16/24 15:05	BDM	SM 4500-NH3 H	
BOD	99.8	mg/L	2.00	2.00	10/14/24 12:11	SCD	SM 5210 B	
FDS	187	mg/L			10/18/24 15:23	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0179	mg/L	0.00400	0.100	10/14/24 12:04	AAI	SM 4500-NO3 F	J
TDS	383	mg/L			10/22/24 15:08	EMG	SM 2540 C	
TKN as N	51.6	mg/L	1.20	10.0	10/18/24 15:04	BDM	SM 4500-Norg D	
Total Nitrogen	51.6	mg/L	1.20	10.1	10/18/24 15:04	BDM	Calculation	*
TSS	33.8	mg/L			10/11/24 15:30	EMG	SM 2540 D	

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Sample Location: DL INF
Lab/Sample Number: WEJ0504-02 Collect Date: 10/08/24 07:30
Date Received: 10/09/24 08:50 Collected By: Aimee Kowell
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	46.5	mg/L	0.200	0.800	10/16/24 15:07	BDM	SM 4500-NH3 H	
BOD	68.8	mg/L	2.00	2.00	10/14/24 12:22	SCD	SM 5210 B	
FDS	184	mg/L			10/18/24 15:23	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0121	mg/L	0.00400	0.100	10/14/24 12:05	AAI	SM 4500-NO3 F	J
TDS	269	mg/L			10/22/24 15:08	EMG	SM 2540 C	
TKN as N	49.9	mg/L	1.20	10.0	10/18/24 15:06	BDM	SM 4500-Norg D	
Total Nitrogen	49.9	mg/L	1.20	10.1	10/18/24 15:06	BDM	Calculation	*
TSS	11.5	mg/L			10/11/24 15:30	EMG	SM 2540 D	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEK0075
Project: LLSD4
Reported: 12/3/2024 13:18

Analytical Results Report

Sample Location: Loon Lake Influent
Lab/Sample Number: WEK0075-01 **Collect Date:** 11/05/24 09:00
Date Received: 11/05/24 10:35 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	48.9	mg/L	0.200	0.800	11/12/24 16:00	BDM	SM 4500-NH3 H	
BOD	90.6	mg/L	2.00	2.00	11/10/24 13:44	SCD	SM 5210 B	
FDS	265	mg/L			11/5/24 17:38	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0176	mg/L	0.00400	0.100	11/6/24 11:39	AAI	SM 4500-NO3 F	J
TDS	385	mg/L			11/11/24 15:36	EMG	SM 2540 C	
TKN as N	52.4	mg/L	1.20	10.0	11/14/24 15:09	BDM	SM 4500-Norg D	
Total Nitrogen	52.4	mg/L	1.20	10.1	11/14/24 15:09	BDM	Calculation	*
TSS	26.0	mg/L			11/6/24 15:56	EMG	SM 2540 D	

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Sample Location: Deer Lake Influent
Lab/Sample Number: WEK0075-02 Collect Date: 11/05/24 09:00
Date Received: 11/05/24 10:35 Collected By: Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	43.9	mg/L	0.200	0.800	11/12/24 16:02	BDM	SM 4500-NH3 H	
BOD	71.8	mg/L	2.00	2.00	11/10/24 13:48	SCD	SM 5210 B	
FDS	190	mg/L			11/5/24 17:38	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.0108	mg/L	0.00400	0.100	11/6/24 11:44	AAI	SM 4500-NO3 F	J
TDS	264	mg/L			11/11/24 15:36	EMG	SM 2540 C	
TKN as N	46.7	mg/L	1.20	10.0	11/14/24 15:11	BDM	SM 4500-Norg D	
Total Nitrogen	46.7	mg/L	1.20	10.1	11/14/24 15:11	BDM	Calculation	*
TSS	16.0	mg/L			11/6/24 15:56	EMG	SM 2540 D	

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Sample Location: Well #2
Lab/Sample Number: WEK0075-03 Collect Date: 11/05/24 09:00
Date Received: 11/05/24 10:35 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1	MPN/100mL	1.80	1.80	11/7/24 14:33	SBS	SM 9221 B+C	
Inorganics								
TDS	121	mg/L			11/11/24 15:36	EMG	SM 2540 C	

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Sample Location: Well #4
Lab/Sample Number: WEK0075-04 Collect Date: 11/05/24 09:00
Date Received: 11/05/24 10:35 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1	MPN/100mL	1.80	1.80	11/7/24 14:33	SBS	SM 9221 B+C	
Inorganics								
TDS	106	mg/L			11/11/24 15:36	EMG	SM 2540 C	

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Sample Location: Well #5
Lab/Sample Number: WEK0075-05 Collect Date: 11/05/24 09:00
Date Received: 11/05/24 10:35 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1	MPN/100mL	1.80	1.80	11/7/24 14:33	SBS	SM 9221 B+C	
Inorganics								
TDS	194	mg/L			11/7/24 15:55	EMG	SM 2540 C	

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Sample Location: Well #6
Lab/Sample Number: WEK0075-06 Collect Date: 11/05/24 09:00
Date Received: 11/05/24 10:35 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Microbiology								
Total Coliform	<1	MPN/100mL	1.80	1.80	11/7/24 14:33	SBS	SM 9221 B+C	
Inorganics								
TDS	150	mg/L			11/7/24 15:55	EMG	SM 2540 C	

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504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEL0168
Project: LLSD4
Reported: 12/5/2024 16:01

Analytical Results Report

Sample Location: Well #2
Lab/Sample Number: WEL0168-01 **Collect Date:** 12/04/24 10:10
Date Received: 12/04/24 11:34 **Collected By:** Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Nitrate/N	1.27	mg/L	0.0190	0.100	12/5/24 0:38	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	1.27	mg/L	0.0670	0.200	12/5/24 0:38	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	12/5/24 0:38	BAM	EPA 300.0	

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Sample Location: Well #4
Lab/Sample Number: WEL0168-02 Collect Date: 12/04/24 10:20
Date Received: 12/04/24 11:34 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Nitrate/N	0.549	mg/L	0.0190	0.100	12/5/24 0:59	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.549	mg/L	0.0670	0.200	12/5/24 0:59	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	12/5/24 0:59	BAM	EPA 300.0	

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Sample Location: Well #5
Lab/Sample Number: WEL0168-03 Collect Date: 12/04/24 10:30
Date Received: 12/04/24 11:34 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Nitrate/N	0.784	mg/L	0.0190	0.100	12/5/24 1:20	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.784	mg/L	0.0670	0.200	12/5/24 1:20	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	12/5/24 1:20	BAM	EPA 300.0	

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Sample Location: Well #6
Lab/Sample Number: WEL0168-04 Collect Date: 12/04/24 10:40
Date Received: 12/04/24 11:34 Collected By: Jim Dearing
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Nitrate/N	0.324	mg/L	0.0190	0.100	12/5/24 2:01	BAM	EPA 300.0	
Nitrate/N + Nitrite/N	0.324	mg/L	0.0670	0.200	12/5/24 2:01	BAM	Calculation	*
Nitrite/N	ND	mg/L	0.0480	0.100	12/5/24 2:01	BAM	EPA 300.0	

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Client: Loon Lake Sewer District #4
Address: 3963 Christensen Rd.
Loon Lake, WA 99148
Attn: Brooke Lyons

Work Order: WEL0144
Project: LLS4
Reported: 12/19/2024 22:33

Analytical Results Report

Sample Location: Loon Lake Influent
Lab/Sample Number: WEL0144-01 **Collect Date:** 12/03/24 08:30
Date Received: 12/04/24 08:48 **Collected By:** Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	53.4	mg/L	0.200	0.800	12/9/24 13:51	BDM	SM 4500-NH3 H	
BOD	55.2	mg/L	2.00	2.00	12/9/24 12:41	SCD	SM 5210 B	
FDS	176	mg/L			12/5/24 18:21	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	<0.00400	mg/L	0.00400	0.100	12/11/24 8:59	BDM	SM 4500-NO3 F	
TDS	242	mg/L			12/11/24 16:18	EMG	SM 2540 C	C6
TKN as N	55.9	mg/L	1.20	10.0	12/12/24 16:46	BDM	SM 4500-Norg D	
Total Nitrogen	55.9	mg/L	1.20	10.1	12/12/24 16:46	BDM	Calculation	*
TSS	18.0	mg/L			12/5/24 15:23	EMG	SM 2540 D	

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Sample Location: Deer Lake Influent
Lab/Sample Number: WEL0144-02 Collect Date: 12/03/24 08:30
Date Received: 12/04/24 08:48 Collected By: Jim Dearing
Matrix: Wastewater

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
Ammonia/N	45.1	mg/L	0.200	0.800	12/9/24 13:53	BDM	SM 4500-NH3 H	
BOD	94.0	mg/L	2.00	2.00	12/9/24 12:45	SCD	SM 5210 B	
FDS	271	mg/L			12/5/24 18:21	EMG	SM 2540 E	
Nitrate/N + Nitrite/N	0.00890	mg/L	0.00400	0.100	12/11/24 9:01	BDM	SM 4500-NO3 F	J
TDS	350	mg/L			12/11/24 16:18	EMG	SM 2540 C	C6
TKN as N	52.9	mg/L	1.20	10.0	12/18/24 14:49	BDM	SM 4500-Norg D	
Total Nitrogen	52.9	mg/L	1.20	10.1	12/18/24 14:49	BDM	Calculation	*
TSS	36.0	mg/L			12/5/24 15:23	EMG	SM 2540 D	

Report Date: October 28, 2024
Report No: 111798
Client: Loon Lake Sewer #4
Sampler: Jim Dearing
Project: Loon Lake Sewer #4
Field: NO ID
P.N.: Loon Lake Sewer #4
Sampled: 10/22/2024



SOIL ANALYSIS REPORT

Lab #	Depth Inches		Field ID	Sample ID	NO3	NO3	NH4	NH4	P	K	pH	EC	Ca	Mg	Na	Na	Exch. Na	ESP	Efferve	H2O	Total	Total	CEC	TKN	Ca	Mg	Na	SAR	Total
	Start	End			-N #/A	-N ppm	-N #/A	-N ppm	Bicarb ppm	Am. Acet. ppm		1:1 mmho/cm	Meq/ 100g	Meq/ 100g	Meq/ 100g	H2O-sol meq/100g	Meq/ 100g	%	-science	%	%	Meq/100g	Meq/ 100g	%	ppm	Saturation ppm	ppm		Nitrogen %
1509	0	12	NO ID		5	1.2	26	6.6	16	44	7.0	0.26	5.2	1.4	0.60	0.29	0.31	2.24	None	20.23	79.77	7.29	13.8	0.135	20	6	70	3.53	0.135
1510	12	24	NO ID		8	2.0	18	4.6	11	43	7.0	0.14	4.2	1.1	0.59	0.23	0.36	3.71	None	8.06	91.94	6.01	9.7	0.077	13	4	61	3.81	0.077
1511	24	36	NO ID		6	1.4	15	3.8	10	20	7.1	0.12	2.8	0.8	0.31	0.18	0.13	1.88	None	13.61	86.39	3.93	6.9	0.073	12	4	50	3.24	0.073

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Station Chamokane, Washington AgriMet Weather Station
Evapotranspiration (ASCE Alfalfa Reference), inches
Report for Water Year 2024
Bureau of Reclamation Hydromet/AgriMet System
Provisional Data, Subject to Change

Day	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024
1	0.08	0.03	0.00	0.01	0.01	0.07	0.13	0.15	0.15	0.20	0.27	0.25
2	0.06	0.01	0.01	0.01	0.01	0.03	0.16	0.14	0.12	0.24	0.29	0.15
3	0.07	0.02	0.00	0.01	0.02	0.04	0.15	0.16	0.19	0.24	0.21	0.21
4	0.08	0.01	0.01	0.01	0.01	0.04	0.07	0.14	0.18	0.27	0.20	0.20
5	0.10	0.02	0.01	0.01	0.00	0.05	0.03	0.05	0.22	0.27	0.28	0.23
6	0.10	0.01	-	0.01	0.02	0.06	0.04	0.15	0.24	0.28	0.28	0.23
7	0.12	0.02	0.02	0.01	0.02	0.06	0.08	0.14	0.25	0.30	0.26	0.21
8	0.12	0.02	0.01	0.01	0.01	0.06	0.08	0.16	0.23	0.29	0.27	0.19
9	0.10	0.02	0.01	0.02	0.02	0.06	0.16	0.20	0.16	0.30	0.26	0.21
10	0.04	0.01	0.00	0.02	0.02	0.04	0.13	0.23	0.20	0.32	0.24	0.20
11	0.03	0.04	0.01	0.01	0.01	0.05	0.10	0.24	0.28	0.29	0.22	0.14
12	0.04	0.02	0.01	0.01	0.02	0.06	0.12	0.25	0.20	0.29	0.26	0.11
13	0.07	0.02	0.01	0.01	0.02	0.07	0.15	0.23	0.19	0.29	0.24	0.18
14	0.05	0.01	0.01	0.01	0.04	0.07	0.19	0.23	0.21	0.32	0.23	0.15
15	0.06	0.01	0.01	0.01	0.03	0.09	0.18	0.23	0.11	0.29	0.24	0.10
16	0.04	0.01	0.01	0.01	0.04	0.13	0.11	0.27	0.17	0.27	0.19	0.17
17	0.07	0.01	0.01	0.00	0.04	0.13	0.10	0.20	0.17	0.22	0.24	0.13
18	0.07	0.02	0.01	0.01	0.03	-	0.09	0.13	0.13	0.27	0.26	0.16
19	0.08	0.03	0.00	0.01	0.03	-	0.16	0.14	0.22	0.29	0.25	0.17
20	0.07	0.01	0.01	0.01	0.02	-	0.19	0.16	0.26	0.28	0.24	0.13
21	0.06	0.01	0.01	0.01	0.02	0.10	0.18	0.17	0.27	0.36	0.21	0.13
22	0.05	0.01	0.01	0.01	0.03	0.07	0.14	0.10	0.22	0.30	0.23	0.15
23	0.07	0.02	0.00	0.01	0.04	0.02	0.16	0.15	0.29	0.31	0.20	0.15
24	0.04	0.02	0.00	0.01	0.06	0.05	0.15	0.17	0.25	0.33	0.13	0.14
25	0.03	0.01	0.01	0.01	0.07	0.06	0.14	0.17	0.28	0.29	0.14	0.27
26	0.03	0.01	0.01	0.01	0.07	0.08	0.13	0.16	0.21	0.24	0.19	0.17
27	0.02	0.01	0.01	0.00	0.05	0.04	0.07	0.19	0.17	0.23	0.21	0.16
28	0.03	0.02	0.00	0.01	0.05	0.09	0.14	0.15	0.21	0.25	0.18	0.16
29	0.03	0.00	0.01	0.01	0.05	0.07	0.14	0.18	0.21	0.17	0.18	0.17
30	0.03	0.01	0.01	0.01	---	0.11	0.11	0.16	0.17	0.17	0.20	0.10
31	0.04	---	0.00	0.01	---	0.12	---	0.19	---	0.26	0.26	---
Total	2.05	0.47	0.23	0.31	0.86	1.92	3.78	5.39	6.16	8.43	7.06	5.12
Ave	0.06	0.02	0.01	0.01	0.03	0.07	0.13	0.17	0.21	0.27	0.23	0.17
Max	0.17	0.04	0.02	0.02	0.07	0.13	0.19	0.27	0.29	0.36	0.29	0.27
Min	0.02	0.00	0.00	0.00	0.00	0.02	0.03	0.05	0.11	0.17	0.13	0.10

Station Chamokane, Washington AgriMet Weather Station
Evapotranspiration (ASCE Alfalfa Reference), inches
Report for Water Year 2025
Bureau of Reclamation Hydromet/AgriMet System
Provisional Data, Subject to Change

Day	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025
1	0.17	0.01	0.01	0.00	0.04	0.08	---	---	---	---	---	---
2	0.10	0.02	0.00	0.00	0.03	0.05	---	---	---	---	---	---
3	0.11	0.01	0.01	0.00	0.02	0.06	---	---	---	---	---	---
4	0.07	0.02	0.01	0.01	0.02	0.03	---	---	---	---	---	---
5	0.08	0.03	0.01	0.01	0.01	0.05	---	---	---	---	---	---
6	0.11	0.03	0.01	0.01	0.01	0.07	---	---	---	---	---	---
7	0.10	0.03	0.01	0.01	0.04	0.07	---	---	---	---	---	---
8	0.13	0.03	0.01	0.01	0.02	0.05	---	---	---	---	---	---
9	0.08	0.02	0.00	0.01	0.03	0.10	---	---	---	---	---	---
10	0.09	0.00	0.01	0.01	0.03	-	---	---	---	---	---	---
11	0.09	0.01	0.01	0.01	0.02	---	---	---	---	---	---	---
12	0.12	0.03	0.01	0.01	0.02	---	---	---	---	---	---	---
13	0.10	0.01	0.00	0.01	0.03	---	---	---	---	---	---	---
14	0.10	0.03	0.01	0.01	0.02	---	---	---	---	---	---	---
15	0.07	0.01	0.01	0.01	0.02	---	---	---	---	---	---	---
16	0.04	0.02	0.00	0.00	0.01	---	---	---	---	---	---	---
17	0.05	0.02	0.00	0.01	0.02	---	---	---	---	---	---	---
18	0.04	0.02	0.03	0.01	0.02	---	---	---	---	---	---	---
19	0.11	0.02	0.01	0.01	0.01	---	---	---	---	---	---	---
20	0.13	0.02	0.01	0.02	0.02	---	---	---	---	---	---	---
21	0.06	0.01	0.01	0.02	0.03	---	---	---	---	---	---	---
22	0.04	0.01	0.01	0.01	0.02	---	---	---	---	---	---	---
23	0.05	0.02	0.01	0.01	0.02	---	---	---	---	---	---	---
24	0.04	0.01	0.01	0.02	0.03	---	---	---	---	---	---	---
25	0.05	0.01	0.01	0.02	0.03	---	---	---	---	---	---	---
26	0.07	0.01	0.02	0.02	0.05	---	---	---	---	---	---	---
27	0.07	0.01	0.01	0.02	0.07	---	---	---	---	---	---	---
28	0.04	0.01	0.02	0.02	0.06	---	---	---	---	---	---	---
29	0.02	0.01	0.01	0.02	---	---	---	---	---	---	---	---
30	0.04	0.01	0.01	0.02	---	---	---	---	---	---	---	---
31	0.02	---	0.01	0.01	---	---	---	---	---	---	---	---
Total	2.39	0.50	0.30	0.36	0.75	0.56	0.00	0.00	0.00	0.00	0.00	0.00
Ave	0.08	0.02	0.01	0.01	0.03	0.06	---	---	---	---	---	---
Max	0.17	0.03	0.03	0.02	0.07	0.10	---	---	---	---	---	---
Min	0.02	0.00	0.00	0.00	0.01	0.03	---	---	---	---	---	---

Station Chamokane, Washington AgriMet Weather Station
Daily Total Precipitation, inches
Report for Water Year 2024
Bureau of Reclamation Hydromet/AgriMet System
 Provisional Data, Subject to Change

Day	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024
1	0.00	0.02	0.20	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.01	0.67	0.57	0.00	0.05	0.15	0.00	0.00	0.29	0.00	0.00	0.00
3	0.00	0.00	0.17	0.11	0.11	0.01	0.00	0.00	0.19	0.00	0.00	0.00
4	0.00	0.77	0.13	0.07	0.18	0.06	0.06	0.00	0.00	0.00	0.05	0.00
5	0.00	0.00	1.26	0.00	0.23	0.00	0.31	0.35	0.00	0.00	0.00	0.00
6	0.00	0.58	0.91	0.57	0.02	0.00	0.01	0.33	0.00	0.00	0.00	0.00
7	0.00	0.02	0.19	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.02	0.37	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.07	0.03	0.26	0.01	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
11	0.04	0.01	0.00	0.06	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.17	0.13	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
15	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.00	0.00
16	0.11	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
19	0.00	0.19	0.22	0.04	0.10	0.00	0.00	0.11	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.08	0.06	0.00	0.01	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.44	0.09	0.00	0.02	0.06	0.00	0.00	0.00	0.00
22	0.01	0.00	0.05	0.23	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.05	0.00	0.05	0.00	0.06	0.00	0.00	0.02	0.00
24	0.00	0.00	0.00	0.09	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.00
25	0.06	0.00	0.00	0.01	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.11	0.02	0.01	0.10	0.02	0.00	0.00	0.00	0.00	0.00
27	0.01	0.00	0.00	0.48	0.07	0.40	0.07	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.15	0.31	0.02	0.00	0.03	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.24	0.01	0.00	0.00	0.00	0.02	0.00	0.00
30	0.00	0.02	0.00	0.00	---	0.00	0.00	0.00	0.02	0.04	0.00	0.00
31	0.00	---	0.02	0.01	---	0.00	---	0.00	---	0.00	0.00	---
Total	0.32	2.36	4.52	3.47	2.00	1.22	0.60	1.39	0.74	0.06	0.07	0.02
Ave	0.01	0.08	0.15	0.11	0.07	0.04	0.02	0.04	0.02	0.00	0.00	0.00
Max	0.11	0.77	1.26	0.57	0.31	0.40	0.31	0.44	0.29	0.04	0.05	0.02
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Station Chamokane, Washington AgriMet Weather Station
Daily Total Precipitation, inches
Report for Water Year 2025
Bureau of Reclamation Hydromet/AgriMet System
Provisional Data, Subject to Change

Day	Oct 2024	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025
1	0.00	1.37	0.01	0.02	0.00	0.00	---	---	---	---	---	---
2	0.00	0.72	0.00	0.11	0.03	0.00	---	---	---	---	---	---
3	0.00	0.00	0.00	0.36	0.00	0.00	---	---	---	---	---	---
4	0.01	0.68	0.00	0.11	0.06	0.05	---	---	---	---	---	---
5	0.00	0.00	0.00	0.23	0.04	0.01	---	---	---	---	---	---
6	0.00	0.00	0.00	0.00	0.05	0.00	---	---	---	---	---	---
7	0.00	0.00	0.06	0.00	0.00	0.00	---	---	---	---	---	---
8	0.00	0.00	0.00	0.02	0.02	0.00	---	---	---	---	---	---
9	0.00	0.01	0.00	0.00	0.01	0.00	---	---	---	---	---	---
10	0.00	0.04	0.00	0.01	0.00	-	---	---	---	---	---	---
11	0.00	0.12	0.00	0.00	0.00	---	---	---	---	---	---	---
12	0.00	0.01	0.00	0.00	0.00	---	---	---	---	---	---	---
13	0.00	1.42	0.08	0.00	0.01	---	---	---	---	---	---	---
14	0.00	0.02	0.44	0.00	0.04	---	---	---	---	---	---	---
15	0.00	0.03	0.01	0.00	0.10	---	---	---	---	---	---	---
16	0.20	0.11	0.05	0.01	0.15	---	---	---	---	---	---	---
17	0.00	0.36	0.46	0.00	0.02	---	---	---	---	---	---	---
18	0.00	0.00	0.44	0.00	0.00	---	---	---	---	---	---	---
19	0.00	0.00	0.00	0.00	0.14	---	---	---	---	---	---	---
20	0.00	0.54	0.01	0.00	0.02	---	---	---	---	---	---	---
21	0.23	0.22	0.20	0.00	0.02	---	---	---	---	---	---	---
22	0.00	0.76	0.17	0.00	0.28	---	---	---	---	---	---	---
23	0.00	0.00	0.08	0.00	0.61	---	---	---	---	---	---	---
24	0.00	0.30	0.47	0.00	0.17	---	---	---	---	---	---	---
25	0.00	0.03	0.06	0.00	0.05	---	---	---	---	---	---	---
26	0.00	0.01	0.62	0.00	0.00	---	---	---	---	---	---	---
27	0.23	0.00	0.09	0.00	0.00	---	---	---	---	---	---	---
28	0.00	0.00	0.24	0.00	0.00	---	---	---	---	---	---	---
29	0.00	0.00	0.18	0.00	---	---	---	---	---	---	---	---
30	0.01	0.00	0.06	0.00	---	---	---	---	---	---	---	---
31	0.19	---	0.00	0.97	---	---	---	---	---	---	---	---
Total	0.87	6.75	3.73	1.84	1.82	0.06	0.00	0.00	0.00	0.00	0.00	0.00
Ave	0.03	0.22	0.12	0.06	0.07	0.01	---	---	---	---	---	---
Max	0.23	1.42	0.62	0.97	0.61	0.05	---	---	---	---	---	---
Min	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---