

Seeley Lake Sewer District
REGULAR BOARD MEETING AGENDA

DATE: Thursday, February 15, 2024
PLACE: **The Barn, 2920 Highway 83, Seeley Lake & Virtual Meeting, via Zoom**
Computer: <https://us02web.zoom.us/j/86464976067?pwd=dFF0UU9yUVIvZjFZQmo4ZlRQR3VEQT09>
Telephone: 1 669 900 6833
Meeting ID: 864 6497 6067
Password: 032580
TIME: 6:00 p.m.

ROLL CALL

Tom Morris, President	○	05/2024
Pat Goodover, Vice President	○	05/2026
Jason Gilpin, Director	○	05/2024
Cheri Thompson, Director	○	05/2026
Troy Spence, Director	○	05/2026
Felicity Derry, Secretary	○	

1. OPENING: Scheduled for 6:00 PM Via Zoom
2. APPROVAL OF AGENDA:
3. PRESIDENT'S COMMENTS:
4. PUBLIC COMMENT: On Items not on the Agenda of the Meeting and within the Jurisdiction of the Sewer District [MCA 2-3-103 (1)a]
5. CORRESPONDENCE:
6. MINUTES: January 18, 2024 - *Action*
7. FINANCIAL REPORTS:
 - a} Invoices: February 2024 - *Action*
 - b} November 2023
 - c} December 2023
8. MANAGER'S REPORT: Status Report
9. UNFINISHED BUSINESS:
 - a} Action Plan for 2023-2024 Committee Reports
 - i. Pathfinder Article & Email Newsletter - *Discussion/Action*
 - b} Mission Update - *Discussion/Action*
 - c} eDNA Sampling - *Discussion/Action*
 - d} Test Result Map - *Discussion/Action*
 - e} Clearwater RV Dump Station - *Discussion/Action*
 - f} Monitoring Well & Lake Sampling - *Discussion/Action*
10. NEW BUSINESS:
 - a} WET Proposal - *Discussion/Action*
 - b} Written Access Agreement for Transducers - *Discussion/Action*
 - c} Missoula City/County Health Department - Septic Permit Policy - *Discussion*
 - d} MCCHD Rebuttal Letter - *Discussion/Action*
 - e} FY2025 Budget - *Discussion*
 - f} Ermine Contracting Proposal - *Discussion*
11. NEXT SCHEDULED MEETING: March 21, 2024
12. AGENDA ITEMS FOR NEXT SCHEDULED MEETING:
13. ADJOURNMENT:

**SEELEY LAKE SEWER DISTRICT
REGULAR BOARD MEETING
January 18, 2024**

Tom Morris	President	PRESENT	Cheri Thompson	Director	PRESENT
Pat Goodover	Vice President	PRESENT	Troy Spence	Director	PRESENT
Jason Gilpin	Director	PRESENT	Felicity Derry	Secretary	PRESENT
Bill Decker	Manager	PRESENT			

Public Attendance – Appendix A

CALL TO ORDER:

The meeting was called to order at 6:01pm. The meeting was held remotely at the Barn, 2920 Highway 83, Seeley Lake, MT and via Zoom.

APPROVAL OF AGENDA:

Pat Goodover moved to accept the agenda. Jason Gilpin seconded the motion. There was no discussion. The motion was carried.

Tom Morris	Aye
Pat Goodover	Aye
Jason Gilpin	Aye
Cheri Thompson	Aye
Troy Spence	Aye

PRESIDENT'S COMMENTS:

Tom Morris noted that it was a full agenda and requested that the meeting be kept moving along.

PUBLIC COMMENT:

Tom Morris requested public comment. Cheri Thompson noted that she would like to question some of the facts put forward by the Missoula City/County Health Department (MCCHD) at the Seeley Lake Community Council (SLCC) meeting, such as the groundwater flow. Discussion followed and the Board agreed to put this on the agenda for next month.

CORRESPONDENCE:

None

MINUTES:

October 19, 2023

Tom Morris moved to accept the minutes for the regular meeting (October 19, 2023) as circulated. Cheri Thompson seconded the motion. There was no discussion. The motion was carried.

Tom Morris	Aye
Pat Goodover	Aye
Jason Gilpin	Aye
Cheri Thompson	Aye
Troy Spence	Aye

FINANCIAL REPORTS:

Invoices

Tom Morris noted that the invoices were for December and January. Tom Morris reviewed the January invoices.

Pat Goodover moved to approve the invoices and pay them. Jason Gilpin seconded the motion. Cheri Thompson requested more information on the WET invoice. Jess Alexander reviewed their recent work. There was no further discussion. The motion was carried.

Tom Morris	Aye
Pat Goodover	Aye
Jason Gilpin	Aye
Cheri Thompson	Aye
Troy Spence	Aye

September 2023 Financial Reports

Felicity Derry reviewed the September financial reports, noting that it was quiet month.

October 2023 Financial Reports

Felicity Derry reviewed the October financial reports, noting that it had been another quiet month

MANGER'S REPORT:

Bill Decker reviewed his report.

UNFINISHED BUSINESS:

Action Plan for 2023-2024 - Committee Reports

Pathfinder Article & Email Newsletter

Bill Decker noted that he had talked to the editor of the Pathfinder, who would try to attend the meeting.

Mission Update

None.

Environmental Deoxyribonucleic Acid (eDNA) Sampling

Bill Decker noted that four samples had been taken and explained the procedure. Bill Decker informed the Board that the bailer in the well by the carwash had become stuck in the well while he was taking the sample. The water already taken from the well had been used for this sample. No results for this testing had been received to date.

Test Result Map

Tom Morris noted that this would be covered in the WET presentation.

Clearwater RV Dump Station

Tom Morris noted that there was nothing new.

Monitoring Well & Lake Testing

Tom Morris noted that WET's presentation would cover this item.

NEW BUSINESS:

WET Presentation

Jess Alexander reviewed the report that he had submitted to the Board, explaining what each of the colored sections referred to, and explaining why he had chosen these areas.

Jess Alexander reviewed the total nitrogen concentration figures. There was discussion regarding the flow and level of the groundwater and utilizing the transducers to gain a better understanding of the groundwater flow. Jess Alexander recommended surveying the wells and doing a hydraulic model. There was further discussion on the groundwater flow.

Jess Alexander outlined where he recommended drilling additional monitoring wells. Tom Morris suggested putting this on the agenda for the next meeting. Pat Goodover requested that WET provide a dollar amount for drilling the additional monitoring wells, to discuss at the next meeting. Tom Morris requested estimates for the hydraulic model, four additional monitoring wells and the survey of the wells, for the next meeting. Shannon Therriault added that Missoula County might be able to survey the wells for free. There was discussion regarding Missoula County needing written access agreements for the transducers to be installed in the monitoring wells. The discussion returned to the groundwater flow.

Jess Alexander reviewed the testing data for the monitoring wells and the sampling schedule moving forward. Jess Alexander reviewed the results of the statistical analysis that he had run on the

monitoring wells at Lindey's, the Baptist Church and Kurt's. Discussion followed on the nitrogen concentrations and how often the monitoring wells should be tested.

NEXT REGULARLY SCHEDULED MEETING: February 15, 2023

The Board discussed and agreed to hold the February in person at the Barn and via Zoom.

AGENDA ITEMS FOR NEXT SCHEDULED MEETING:

Tom Morris noted that the following items should be added to the February agenda: Action Plan – Committee Reports – Pathfinder Article; Mission Update; Test Result Map, Clearwater RV Dump Station, eDNA Sampling, Monitoring Well & Lake Sampling, WET proposal, Written access for the transducers on the two properties, the Contractor for the Lazy Acre RV Park and MCCHD.

The Board discussed the upcoming board election.

ADJOURNMENT OF MONTHLY BOARD MEETING:

Cheri moved to adjourn the meeting at 7:27pm. Tom Morris seconded the motion.

Attest:

Tom Morris, President

Felicity Derry, Secretary

**Seeley Lake Sewer District
Invoices for February 2024**

District:

Seeley Lake Water District - <i>Inv#228 January 2024</i>		\$194.35
WET - <i>Inv#10049 November 1 - November 30, 2023</i>		\$9,295.00
Bill Decker - <i>January/February 2024</i>		\$318.50
Felicity Derry - <i>January/Feruary 2024</i>		\$171.00
WET - <i>Inv#10498 December 1, 2023 - January 31, 2024</i>		\$4,105.75
		\$14,084.60

Account Balances as of 1/31/2024

Citizens Alliance Account	\$4,970.17		\$4,970.17
Reserve	\$28,000.00		\$28,000.00
Missoula County Account	\$233,832.16	(\$14,084.60)	\$219,747.56
	\$266,802.33		\$252,717.73

Seeley Lake - Missoula County Water District


PO Box 503
Seeley Lake, MT 59868-0503

Phone # 406-677-2559

Invoice

DATE	INVOICE #
2/1/2024	229

BILL TO
Seeley Lake Sewer District PO Box 403 Seeley Lake, MT 59868-0403

SHIP TO


P.O. NUMBER	TERMS	REP	SHIP	VIA	
	Due on Receipt		2/1/2024	Vince	

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
11.5	MiscI	Bookkeeping & Admin January 20224	15.00	172.50
437	MiscO	Copies	0.05	21.85

THANK YOU!	Total	\$194.35
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Water & Environmental TECHNOLOGIES

480 East Park Street | Butte, Montana 59701

Bill Decker
Seeley Lake Sewer District
PO Box 403
Seeley Lake, MT 59868

December 13, 2023
Project No: 2023.1747
Invoice No: 10049
Due Date: January 12, 2024

Project 2023.1747 SEELEYLAKEM02 Phase I
Professional Services from November 01, 2023 to November 30, 2023

Task 003 Meetings
Professional Personnel

	Hours	Rate	Amount	
Officer/Principal	1.00	175.00	175.00	
Totals	1.00		175.00	
Total Labor				175.00
		Total this Task		\$175.00

Task 004 Reporting
Professional Personnel

	Hours	Rate	Amount	
Senior III - Scientist	57.00	160.00	9,120.00	
Totals	57.00		9,120.00	
Total Labor				9,120.00
		Total this Task		\$9,120.00
		Total this Invoice		<u>\$9,295.00</u>



To Pay by Check: Mail to 480 E Park, Butte, MT 59701
To Pay by *Credit Card: <https://waterenvtech.com> and click on Invoice & Bid Package Pay

*a 3% processing fee will be charged for all credit card payments

To Pay by ACH: Contact accounting@waterenvtech.com to set up

WET will mail you a form to fill out. WET will NEVER send our banking information or ask for your banking or personal information by email.

Manager's Report**February 2024**

Sewer District board meeting	Jan 18	1hr @ \$26hr	\$ 26.00
DNRC RDG meeting	Feb 6	1hr @ \$26hr	\$ 26.00
23 emails		0.25hr @ \$26hr	\$149.50
18 phone calls		0.25hr @ \$26hr	\$117.00
		Total	\$318.50

We have received the initial sampling analysis for our EEM Fluorescence testing. There will be more results coming from analysis being conducted at a separate facility. I have forwarded these initial results to all board members, WET and Missoula County Health Dept.

The next Nitrate sampling will be done in March unless the board decides to reduce our testing frequency to reduce our costs. We could continue to sample the 4 wells with high nitrates on a quarterly schedule and the other wells on a bi yearly basis.

Felicity, Jess Anderson and I had a Zoom type meeting regarding our DNRC RDG grant. The meeting focused on what expenses could be covered by the grant and what expenses the District would be responsible for. The grant amount is \$34,500 and is intended to help pay for 4 tasks,

Task 1 Hydrological investigation	\$5,000
Task 2 Monitoring well installation	\$5,000
Task 3 Groundwater monitoring	\$9,500
Task 4 Summary report	\$15,000

The Board had previously budgeted for installation of monitoring wells and groundwater monitoring.

Tom, Felicity and I will be attending another Zoom type meeting Feb 15th with Missoula County Health Dept. That meeting will deal with possible FEMA funding to aid the District.

Felicity Derry
January/February

Date	Time	Subject	Hours
1/18/2024	5:00-5:30p	Board Prep	0.50
1/18/2024	5:45-7:45p	Meeting	2.00
1/23/2024	6:00-8:15p	Admin	2.25
2/6/2024	5:15-7:00p	Minutes	1.75
2/7/2024	6:30-8:15p	Admin	1.75
2/8/2024	6:15-7:30p	Admin	1.25
			<hr/>
			9.50

9.50 x \$18 = \$171.00

\$171.00
\$171.00



Water & Environmental TECHNOLOGIES

480 East Park Street | Butte, Montana 59701

Bill Decker
Seeley Lake Sewer District
PO Box 403
Seeley Lake, MT 59868

February 13, 2024
Project No: 2023.1747
Invoice No: 10498
Due Date: March 14, 2024

Project 2023.1747 SEELEYLAKEM02 Phase I
Professional Services from December 01, 2023 to January 31, 2024

Task 003 Meetings
Professional Personnel

	Hours	Rate	Amount	
Senior III - Scientist	5.00	181.00	905.00	
Totals	5.00		905.00	
Total Labor				905.00
		Total this Task		\$905.00

Task 004 Reporting
Professional Personnel

	Hours	Rate	Amount	
Senior III - Scientist	16.00	181.00	2,896.00	
Staff II - Engineer	2.25	126.00	283.50	
Administrative Staff	.25	85.00	21.25	
Totals	18.50		3,200.75	
Total Labor				3,200.75
		Total this Task		\$3,200.75
		Total this Invoice		<u>\$4,105.75</u>

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To Pay by *Credit Card: <https://waterenvtech.com> and click on Invoice & Bid Package Pay

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To Pay by ACH: Contact accounting@waterenvtech.com to set up

WET will mail you a form to fill out. WET will NEVER send our banking information or ask for your banking or personal information by email.

OPERATING BILLED INCOME	NOVEMBER 2023	MTHLY BUDGET	2024 FISCAL YTD	YTD BUDGET	2024 BUDGET	% OF BUDGET
Fee Assessment	\$10,388.95	\$2,500.26	\$11,887.45	\$12,501.30	\$30,003.12	39.6
Interest Income CAB	\$17.59	\$0.00	\$89.59	\$0.00	\$0.00	
Interest Income Missoula County	\$395.91	\$0.00	\$2,937.99	\$0.00	\$0.00	
TOTAL OPERATING INCOME	\$10,802.45	\$2,500.26	\$14,915.03	\$12,501.30	\$30,003.12	49.7

OPERATING EXPENSES

Audit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Bookeeping	\$135.00	\$250.00	\$720.00	\$1,250.00	\$3,000.00	24.0
Dues & Subscriptions	\$0.00	\$83.33	\$0.00	\$416.67	\$1,000.00	0.0
Election	\$0.00	\$83.33	\$0.00	\$416.67	\$1,000.00	0.0
Equipment	\$0.00	\$4.17	\$0.00	\$20.83	\$50.00	0.0
Income Survey	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Insurance - Liability	\$0.00	\$250.00	\$0.00	\$1,250.00	\$3,000.00	0.0
Legal	\$0.00	\$1,250.00	\$0.00	\$6,250.00	\$15,000.00	0.0
Licenses & Fees	\$0.00	\$8.33	\$0.00	\$41.67	\$100.00	0.0
Meals, etc.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Office Supplies	\$11.20	\$29.17	\$45.85	\$145.83	\$350.00	13.1
Postage	\$0.00	\$50.00	\$0.00	\$250.00	\$600.00	0.0
Public Relations	\$0.00	\$62.50	\$0.00	\$312.50	\$750.00	0.0
Manager	\$0.00	\$2,140.42	\$1,671.80	\$10,702.08	\$25,685.00	6.5
Secretary	\$0.00	\$500.00	\$270.00	\$2,500.00	\$6,000.00	4.5
Training	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Nutrient Budget Analysis	\$0.00	\$959.58	\$0.00	\$4,797.92	\$11,515.00	0.0
Well/Lake Monitoring	\$0.00	\$1,159.91	\$1,075.00	\$5,799.53	\$13,918.88	7.7
Drill 5 Wells	\$0.00	\$833.33	\$0.00	\$4,166.67	\$10,000.00	0.0
Engineering Costs	\$3,544.50	\$2,083.33	\$5,275.75	\$10,416.67	\$25,000.00	21.1
TOTAL OPERATING EXPENSES	\$3,690.70	\$9,747.41	\$9,058.40	\$48,737.03	\$116,968.88	7.74
DISTRICT RESERVE OFFSET				(\$86,965.76)	(\$86,965.76)	
NET OP. INCOME (LOSS)	\$7,111.75	(\$7,247.15)	\$5,856.63	\$50,730.03	(\$0.00)	

BALANCE SHEET

ASSETS

09/30/23

10/31/23

11/30/23

CURRENT ASSETS

Cash Accounts	09/30/23	10/31/23	11/30/23
Citizens Alliance Bank Account	\$32,897.46	\$32,916.21	\$32,933.80
- District Reserve Funds	\$28,000.00	\$28,000.00	\$28,000.00
- General District Funds	\$4,897.46	\$4,916.21	\$4,933.80
Missoula County Account	\$223,147.37	\$223,253.40	\$234,038.26
Total Cash Assets	\$256,044.83	\$256,169.61	\$266,972.06

Accounts Receivable

\$0.00

\$0.00

\$0.00

TOTAL CURRENT ASSETS

\$256,044.83

\$256,169.61

\$266,972.06

FIXED ASSETS

Total Fixed Assets

\$2,033,813.16

\$2,033,813.16

\$2,033,813.16

TOTAL ASSETS

\$2,289,857.99

\$2,289,982.77

\$2,300,785.22

BALANCE SHEET
LIABILITIES & EQUITY

09/30/23

10/31/23

11/30/23

CURRENT LIABILITIES

Accounts Payable	\$0.00	\$0.00	\$3,690.70
Total Current Liabilities	\$0.00	\$0.00	\$3,690.70

TOTAL LIABILITIES

\$0.00

\$0.00

\$3,690.70

OWNERS' EQUITY

Retained Earnings	\$2,291,237.89	\$2,291,237.89	\$2,291,237.89
Net Income (Loss)	(\$1,379.90)	(\$1,255.12)	\$5,856.63
Total Owners' Equity	\$2,289,857.99	\$2,289,982.77	\$2,297,094.52

TOTAL LIABILITIES & EQUITY

\$2,289,857.99

\$2,289,982.77

\$2,300,785.22

CASH FLOW RECONCILIATION

	31-Oct	30-Nov	FISCAL YTD
TOTAL NET INCOME (LOSS)	\$124.78	\$7,111.75	\$5,856.63
Operating Activities			
Accounts Payable	\$0.00	\$3,690.70	\$1,875.70
Total Investing Activities	\$0.00	\$3,690.70	\$1,875.70
INCREASE (DECREASE) IN NON-CASH ASSETS			
Accounts Receivable	\$0.00	\$0.00	\$0.00
NET CASH INCREASE (DECREASE)	\$124.78	\$10,802.45	\$7,732.33
CHANGE IN ACCOUNT BALANCES			
Cash at Beginning of Period	\$256,044.83	\$256,169.61	\$259,239.73
Cash at End of Period	\$256,169.61	\$266,972.06	\$266,972.06
Change in Account Balances	\$124.78	\$10,802.45	\$7,732.33

Seeley Lake - Missoula County Sewer District
Check Detail
November 2023

Type	Num	Date	Name	Item	Account	Paid Amount	Original Amount
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OPERATING BILLED INCOME	DECEMBER 2023	MTHLY BUDGET	2024 FISCAL YTD	YTD BUDGET	2024 BUDGET	% OF BUDGET
Fee Assessment	\$6,109.34	\$2,500.26	\$17,996.79	\$15,001.56	\$30,003.12	60.0
Interest Income CAB	\$17.01	\$0.00	\$106.60	\$0.00	\$0.00	
Interest Income Missoula County	\$327.80	\$0.00	\$3,265.79	\$0.00	\$0.00	
TOTAL OPERATING INCOME	\$6,454.15	\$2,500.26	\$21,369.18	\$15,001.56	\$30,003.12	71.2

OPERATING EXPENSES

Audit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Bookkeeping	\$15.00	\$250.00	\$735.00	\$1,500.00	\$3,000.00	24.5
Dues & Subscriptions	\$0.00	\$83.33	\$0.00	\$500.00	\$1,000.00	0.0
Election	\$0.00	\$83.33	\$0.00	\$500.00	\$1,000.00	0.0
Equipment	\$0.00	\$4.17	\$0.00	\$25.00	\$50.00	0.0
Income Survey	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Insurance - Liability	\$0.00	\$250.00	\$0.00	\$1,500.00	\$3,000.00	0.0
Legal	\$0.00	\$1,250.00	\$0.00	\$7,500.00	\$15,000.00	0.0
Licenses & Fees	\$0.00	\$8.33	\$0.00	\$50.00	\$100.00	0.0
Meals, etc.	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Office Supplies	\$1.90	\$29.17	\$47.75	\$175.00	\$350.00	13.6
Postage	\$0.00	\$50.00	\$0.00	\$300.00	\$600.00	0.0
Public Relations	\$0.00	\$62.50	\$0.00	\$375.00	\$750.00	0.0
Manager	\$650.00	\$2,140.42	\$2,321.80	\$12,842.50	\$25,685.00	9.0
Secretary	\$157.50	\$500.00	\$427.50	\$3,000.00	\$6,000.00	7.1
Training	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Travel	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0.0
Nutrient Budget Analysis	\$0.00	\$959.58	\$0.00	\$5,757.50	\$11,515.00	0.0
Well/Lake Monitoring	\$1,414.09	\$1,159.91	\$2,489.09	\$6,959.44	\$13,918.88	17.9
Drill 5 Wells	\$0.00	\$833.33	\$0.00	\$5,000.00	\$10,000.00	0.0
Engineering Costs	\$9,595.00	\$2,083.33	\$14,870.75	\$12,500.00	\$25,000.00	59.5
TOTAL OPERATING EXPENSES	\$11,833.49	\$9,747.41	\$20,891.89	\$58,484.44	\$116,968.88	17.86

DISTRICT RESERVE OFFSET

				(\$86,965.76)	(\$86,965.76)	
NET OP. INCOME (LOSS)	(\$5,379.34)	(\$7,247.15)	\$477.29	\$43,482.88	(\$0.00)	

BALANCE SHEET

ASSETS

10/31/23

11/30/23

12/31/23

CURRENT ASSETS

Cash Accounts	10/31/23	11/30/23	12/31/23
Citizens Alliance Bank Account	\$32,916.21	\$32,933.80	\$32,950.81
- District Reserve Funds	\$28,000.00	\$28,000.00	\$28,000.00
- General District Funds	\$4,916.21	\$4,933.80	\$4,950.81
Missoula County Account	\$223,253.40	\$234,038.26	\$235,809.11
Total Cash Assets	\$256,169.61	\$266,972.06	\$268,759.92

Accounts Receivable

\$0.00

\$0.00

\$0.00

TOTAL CURRENT ASSETS

\$256,169.61

\$266,972.06

\$268,759.92

FIXED ASSETS

Total Fixed Assets

\$2,033,813.16

\$2,033,813.16

\$2,033,813.16

TOTAL ASSETS

\$2,289,982.77

\$2,300,785.22

\$2,302,573.08

BALANCE SHEET**LIABILITIES & EQUITY****10/31/23****11/30/23****12/31/23****CURRENT LIABILITIES**

Accounts Payable	\$0.00	\$3,690.70	\$10,857.90
Total Current Liabilities	\$0.00	\$3,690.70	\$10,857.90

TOTAL LIABILITIES**\$0.00****\$3,690.70****\$10,857.90****OWNERS' EQUITY**

Retained Earnings	\$2,291,237.89	\$2,291,237.89	\$2,291,237.89
Net Income (Loss)	(\$1,255.12)	\$5,856.63	\$477.29
Total Owners' Equity	\$2,289,982.77	\$2,297,094.52	\$2,291,715.18

TOTAL LIABILITIES & EQUITY**\$2,289,982.77****\$2,300,785.22****\$2,302,573.08**

CASH FLOW RECONCILIATION

	30-Nov	31-Dec	FISCAL YTD
TOTAL NET INCOME (LOSS)	\$7,111.75	(\$5,379.34)	\$477.29
Operating Activities			
Accounts Payable	\$3,690.70	\$7,167.20	\$9,042.90
Total Investing Activities	\$3,690.70	\$7,167.20	\$9,042.90
INCREASE (DECREASE) IN NON-CASH ASSETS			
Accounts Receivable	\$0.00	\$0.00	\$0.00
NET CASH INCREASE (DECREASE)	\$10,802.45	\$1,787.86	\$9,520.19
CHANGE IN ACCOUNT BALANCES			
Cash at Beginning of Period	\$256,169.61	\$266,972.06	\$259,239.73
Cash at End of Period	\$266,972.06	\$268,759.92	\$268,759.92
Change in Account Balances	\$10,802.45	\$1,787.86	\$9,520.19

Seeley Lake - Missoula County Sewer District
Check Detail
December 2023

Type	Num	Date	Name	Account	Paid Amount	Original Amount
Bill Pmt -Check	2045	12/21/2023	Seeley Lake Water District	1001 · Missoula Co...	-146.20	-146.20
Bill	Inv#226	11/01/2023		6652 · Bookkeeping ... Copies	-135.00 -11.20	135.00 11.20
TOTAL					-146.20	146.20
Bill Pmt -Check	2046	12/21/2023	Stratum Reservoir (Isotech) LLC	1001 · Missoula Co...	-168.09	-168.09
Bill	Inv#10...	12/11/2023		6290 · Well/Lake Mo...	-168.09	168.09
TOTAL					-168.09	168.09
Bill Pmt -Check	2047	12/21/2023	WET	1001 · Missoula Co...	-3,544.50	-3,544.50
Bill	Inv#95...	11/03/2023		Engineering - General	-3,544.50	3,544.50
TOTAL					-3,544.50	3,544.50
Check	2048	12/21/2023	Decker, William	1001 · Missoula Co...	-650.00	-650.00
TOTAL				6117 · Sewer Distric...	-650.00	650.00
Check	2049	12/21/2023	Felicity Derry	1001 · Missoula Co...	-157.50	-157.50
TOTAL				6110 · Secretary	-157.50	157.50
TOTAL					-157.50	157.50

Water Analysis Report

Isotech Job Number	57294	Isotech Lab No.	906443	906444	906445	906446
Client	Seeley Lake - Missoula Co. Sewer Dist.	Sample Name	13	4	2	Lyndys
Project	Seeley Lake Sewer	Sample Date	1/9/2024	1/9/2024	1/9/2024	1/9/2024
		Sample Time	9:30:00	9:00:00	10:00:00	10:30:00

Water Properties	Method	Units	Meq/Ltr	Valence
pH	EPA 9040C		NA	NA
Density (25 °C)		kg/L	NA	NA
Conductivity (25 °C)	EPA 9050A	µS/cm	NA	NA
Resistivity (25 °C)		Ω*cm	NA	NA
Hardness as CaCO3	SM 2340 B	mg/L	NA	NA
TDS	Calculated Sum	mg/L	NA	NA
	Major Ions	mg/L	NA	NA
	Calculated from Conductivity	mg/L	NA	NA
			280.0	265.2
			170.6	182.8
			777.2	652.9

ICP Elements - Cations	ICP-OES	mg/L	ICP Analysis Date
B	ICP-OES	10.8	1/29/2024
Ba	ICP-OES	137.3	1/29/2024
Ca	ICP-OES	40.1	1/29/2024
Fe	ICP-OES	55.8	1/29/2024
K	ICP-OES	39.1	1/29/2024
Li	ICP-OES	6.9	1/29/2024
Mg	ICP-OES	24.3	1/29/2024
Mn	ICP-OES	54.9	1/29/2024
Na	ICP-OES	23.0	1/29/2024
Sr	ICP-OES	87.6	1/29/2024

IC Elements - Anions	IC	mg/L	IC Analysis Date
F	IC	19.0	1/25/2024
Cl	IC	35.5	1/25/2024
Br	IC	79.9	1/25/2024
SO ₄ ²⁻	IC	96.1	1/25/2024
NO ₃	IC	62.0	1/25/2024
PO ₄ ³⁻	IC	95.0	1/25/2024
Alkalinity (as HCO ₃ ⁻)	Titration	61.0	1/25/2024
Alkalinity (as CO ₃ ²⁻)	Titration	50.0	1/25/2024
Hydroxide (as OH ⁻)	Calculated	17.0	1/25/2024
Total Cation	Calculated	451.6	1/25/2024
Total Anion	Calculated	447.1	1/25/2024
Charge Difference	Calculated	0.05	1/25/2024
Charge Balance	Calculated	0.51%	1/25/2024

n.a. = not analyzed
 n.d. = not detected

To: Interested Parties

From: Missoula Public Health
Environmental Health Division

Date: December 15, 2023

Re: Policy for issuing septic permits in the Seeley Lake Special Management Area

In October 2023, the Missoula City-County Environmental Health Department received additional data showing nitrate contamination throughout the entire Seeley Lake Special Management Area (SMA). The attached map shows a summary of that data. Each monitoring well has two numbers associated with it. The number on top is the highest nitrate concentration reading, and the number on the bottom is the most recent nitrate concentration reading, taken at the end of Oct 2023. Concentrations are in mg/L.

The Department is prohibited under state law from issuing permits that may cause or contribute to a violation of any water quality standard. The additional information makes it apparent that the contamination is widespread and significant, including additional violations of the water quality maximum contaminant level of 10 mg/L, established in the Clean Water Act.

Septic permit applications will still be reviewed on a case-by-case basis, under the following standards:

1. The Department will not issue permits for conventional systems (discharging approx. 50 mg/L nitrate in effluent) in the Seeley Lake SMA. All permits within the current SMA boundary, including replacements and new connections to an existing system, must incorporate nitrate reducing technology.
 - a) Exception: If a septic tank collapses or is damaged, and there is no evidence of unapproved increased use to the structure or operation, and there is no evidence of failure in the absorption area, we will write a septic permit to replace the tank only.
2. New use in the SMA must be served by a septic system that is capable of reducing nitrate to 7.5 mg/L or less in discharged effluent. The known available option is called a SepticNet. Requiring this level of treatment ensures that the nitrate concentration in effluent from new or increased use is below the water quality standard, and in most cases, lower than what is present in the contaminated groundwater. "New use" means constructing or otherwise establishing a new living unit or commercial unit.

- a) Exception: If a new use is proposed, the permit applicant may be able to work with nearby property owners to install a shared or multi-user system that incorporates nitrate reducing technology in a manner that will not result in a net increase of nitrate loading in the SMA. Example: Installing a shared Level II system (which reduces nitrate concentration in effluent to 24 mg/L or less) to serve a new home on a bare lot, and an existing home that was previously connected to a conventional system (discharging effluent at 50 mg/L).
3. Increasing use to an existing system will either require installation of a Level II system (24 mg/L effluent) or installation of a SepticNet or equivalent system. The system the Department will allow depends on the magnitude of the proposed increase beyond the previously permitted or established design flow.
 - a) If the proposed increased use **will not** double the permitted or established design flow, then a Level II system will be allowed.
 - b) If the proposed system **will** double (or more) the permitted or established design flow, then a SepticNet or equivalent system will be required.

This new permitting policy is in compliance with the current rule, which requires sanitarians to consider the best and most recent information available, including nitrate sample results, when reviewing and issuing septic permits in the SMA. Missoula City-County Health Code Regulation 1. Section 20(D)(1), which states the following.

MCCHC Reg 1. Section 20(D) Seeley Lake Special Management Area. The following restrictions apply to land located in the NW quarter of T16 R15 Section 2, the East half of T16 R15 S03, and the South half of T17 R15 S35 (see Appendix G).

(1) New or increased use may not be approved unless the Department determines that it will not cause or contribute to a violation of the nitrate standard established in 76-5-605, MCA.

(2) The Department will evaluate septic permit applications on a case-by-case basis, using the best information available including, but not limited to, nitrate sample results and existing studies on groundwater flow direction. The Department may require an applicant to supply additional information to substantiate that groundwater will be protected.

Dear Editor,

Missoula County Environmental supervisor Jeanna Miller made a presentation at the November 14th, 2023 Community Council Meeting. She began with five major points. We would like to address several of these subjects.

1. How do septic tanks work?
2. Nitrates - what constitutes contamination?
3. **How is the aquifer moving through town?**
4. Why is Seeley Lake a focus area for septic effluent?
5. Map of ground water travel.

The Seeley Lake Sewer District would like to focus on these points:

1. 3. The Aquifer flow:
 - During the '93-'95 period, the Butte School on Mines did research in Missoula County, to include Frenchtown, Lolo, Potomac, parts of Missoula, and the Seeley Swan Valley.
 - Narrowing to the Seeley Lake Area, the research determined that the aquifer at the **AIRPORT** flowed in a more north to south direction, based on science.
 - The Butte School also created a map, based on their opinion of the geology, that showed the water in **TOWN** flows from the east to the west and thus into the lake.
 - The issue is that the only elevated geology in **TOWN** is the small area above the elementary school that has been developed **AFTER** the Butte School of Mines research.
 - The county used the Butte School of Mines map in their presentation. This map doesn't address the issue of the elevations between the airport and town and isn't based on specific science.
 - Due to an error in attaching the fill-spout to one of the fuel storage tanks by a Cenex contractor, when NAPA pulled the fuel tanks in 1998, there was a large remediation process as a superfund site. Part of the requirement was to put in monitoring wells and have them checked quarterly. This monitoring extended over 20 years. Interestingly, John Richards Construction didn't seem to affect NAPA and NAPA didn't seem to have affected Kurt's. If the water was running east to west, there should have been some contamination in the various wells, as each area has different pollutants. We also had to add a two wells to our original set, across the highway and they too never showed any petroleum pollution.
 - Does the science support that the aquifer from the airport to the lake runs east to west?
 - Trail Creek runs N-S
 - The airport aquifer runs N-S
 - Morrell Creek runs N-S
 - The Clearwater River runs N-S
 - What does the science show?

She ended her presentation on a final slide that focuses on several points (the underlined are her points the italics is our point of view) with the following title:

2. The County Health Department says - WHY NOW

- The sewer project has been abandoned. *This implies that the town didn't care and was negligent. The sewer project was voted down by those in the district because of the financial burden. Even with the grants and funding, adding \$150 per month to households, especially those in the downtown area was not realistic.*
- The nitrate levels continue to hold steady and/or increase. *The historical wells and lake testing go up and down throughout the year and the years. Lindsey's well has been as high as 9.2 in '04 and as low as 3.26 the same year and '21 was down in the mid 6. '22 and early '23 are back up in the high 9.s with one 10, but in '16, '17, '19, '20 one test was over 10 and then in '21 it was all down in the 6s. The well at the Baptist church hovered around an average of 5. until its collapse. The well at Kurt's has been as low as 2. and as high as 6.07 with an average of under 4.*
- The additional wells show that the N levels are elevated throughout the current Special Management Area (SMA). *The sewer board put in 14 new monitoring wells. Of those only 2 showed elevated nitrates the one on Juniper at 12.6 and the one behind Rovero's at 6.25. The rest either had no water (as deep as 75') or test results were under 5.0. The outer ring of wells (#9 Boy Scout Rd, #10 C St, #12 Peony, #14 Riverview) actually are pretty low at 1.5, .62, .72, 1.56 with the accepted background elevation marker of 2.*
- The Health Department has a responsibility to address this problem. *Other than imposing regulations, creating a special management area and using the data the district has paid for, how has the health department worked to address the problem? Just being a resource, isn't actively helping to solve a problem. Arbitrarily drawing a line and including property with no data that the area is causing the elevated nitrate issue in some areas, isn't being responsible. We know we have a nitrate issue, but we need a solution that is both long term and economical. The sewer board too has a responsibility to our district; to solve our nitrate issues, to find a solutions that is economically feasible for our members, and to find a long term solution.*
- The Health Department has a legal obligation to address this problem. *The Health Department has not shared what law dictates this obligation. We too are working to fulfill the Constitutional mandate Montana Code Annotated 2023:*

ARTICLE IX. ENVIRONMENT AND NATURAL RESOURCES

Section 1. Protection and improvement.

(1) *The state and each person shall maintain and improve a clean and healthful environment in Montana for present and future generations.*

(2) *The legislature shall provide for the administration and enforcement of this duty.*

(3) *The legislature shall provide adequate remedies for the protection of the environmental life support system from degradation and provide adequate remedies to prevent unreasonable depletion and degradation of natural resources.*

*The difference might be that **we**, the sewer board not only has a responsibility to the environment, but to the constituents of our district. The big sewer solution, would have*

fulfilled the mandate of a clean and healthful environment but wouldn't have been acting responsibly for the people. The most densely populated area of the district, also includes the most vulnerable people. Creating a homeless situation for workers, wouldn't have met the sense and intent of the term healthful environment.

In conclusion the sewer board's mission is to:

- Identify grant opportunities and other funding strategies that support an **affordable** sewer project.*
- Address water quality concerns from high density septic system influence. (Through our testing we are identifying those areas most critical to the degradation of the environment and focus on affordable, comprehensive and complete remedies. We will then address those areas with less impact with an eye to increasing work force housing.)*
- Facilitate solutions related to design, construction, acquisition or financing needs for proposed improvements. (By hiring a professional Montana engineering firm to guide us through the necessary steps needed for a successful outcome, we are working as facilitators for our members.)*

COME OR JOIN OUR NEXT MEETING FEBRUARY 15th, 6pm, AT THE BARN OR BY ZOOM.

Jeanna Miller

Environmental Health Manager, one of three departments in the health department and environmental health is one of them..... works on septic applications. Two other members of the team stood and introduced themselves. (The audio is often hard to hear because Jeanna drops her voice) Shannon Therriault, and others.

Talked about septic systems and how they affect the ground water. Permits are compared to standards. Something important is the removal of nitrates from the effluent.

How do Septic Systems Work?

Disposal: To allow effluent to be absorbed into the soil for a long period of time.

Treatment: In a conventional system, means removing solids, bacteria and viruses before going into groundwater or surface water.

Conventional systems do not effectively remove nitrate. You need an advanced technology system to do that.

All conventional systems are basically equal in terms of nitrate load. Old systems are putting in the same amount as a newer conventional system that meets all the setbacks and sizing rules. Some do a better job but they all don't treat nitrates.

NITRATE: HUMAN HEALTH

Drinking water with high nitrate (over 10 mg/l) can cause methemoglobinemia or blue baby syndrome.

Newer studies show that drinking water with N above 5 mg/l can result in decreased liver function, thyroid disease, some types of cancer, and birth defects in newborns (limb deficiency and spina bifida).

NITRATE: WATER QUALITY

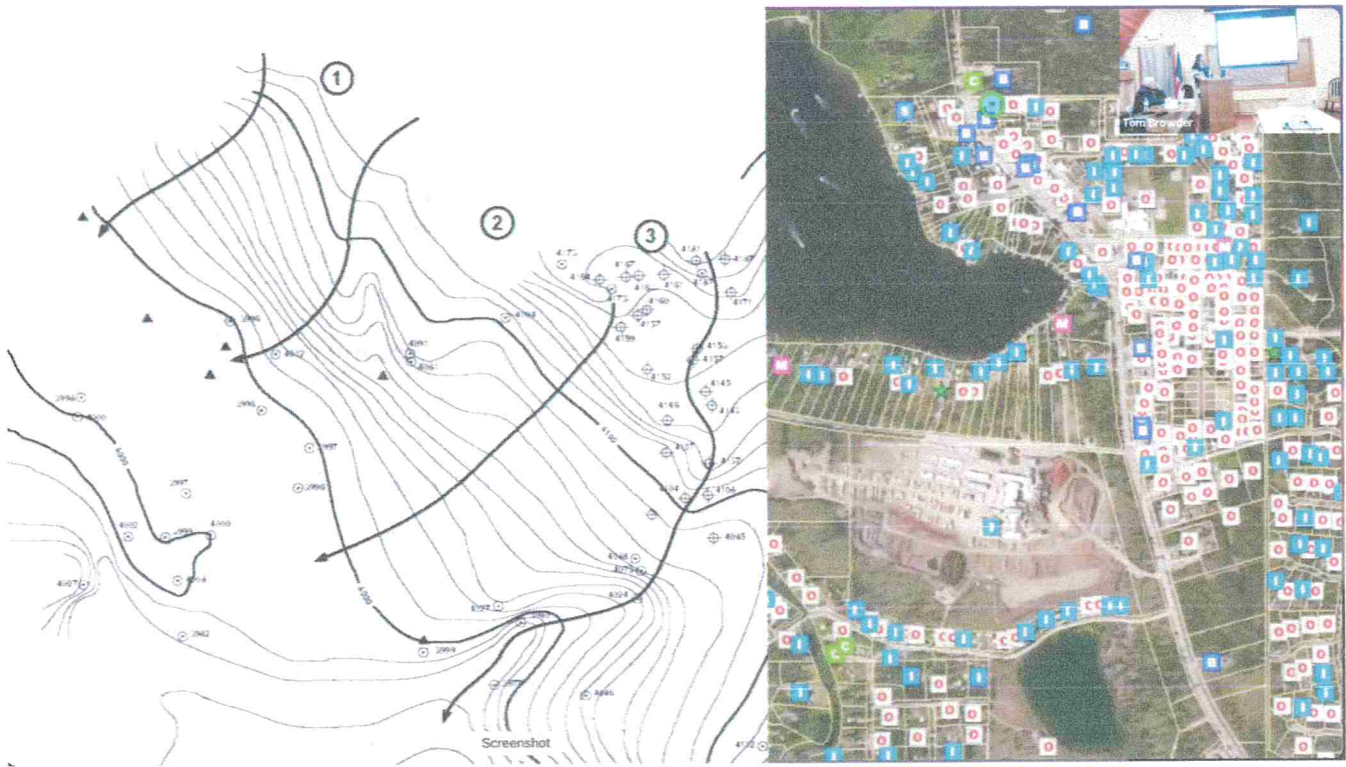
Protecting lakes and streams

Nitrate is a nutrient (plant food). Mountain lakes, like Seeley, only remain clear and pristine if they are protected from a significant increase in nutrients. *The lakes are so beautiful because there isn't a lot of natural nutrient loading in the chain of lakes.*

Loading the lake with nutrients will degrade the clarity and quality over time. At some point, lakes and streams hit a critical nutrient concentration and can't recover.

MAPS

The map on the left actually shows ground water direction. That's Seeley Lake for reference. The way we made the ground water flow is using a network of wells, and determining the underground direction. The importance is comparing to the image on the right all those little dots (don't worry about the codes) is where we have septic tanks.

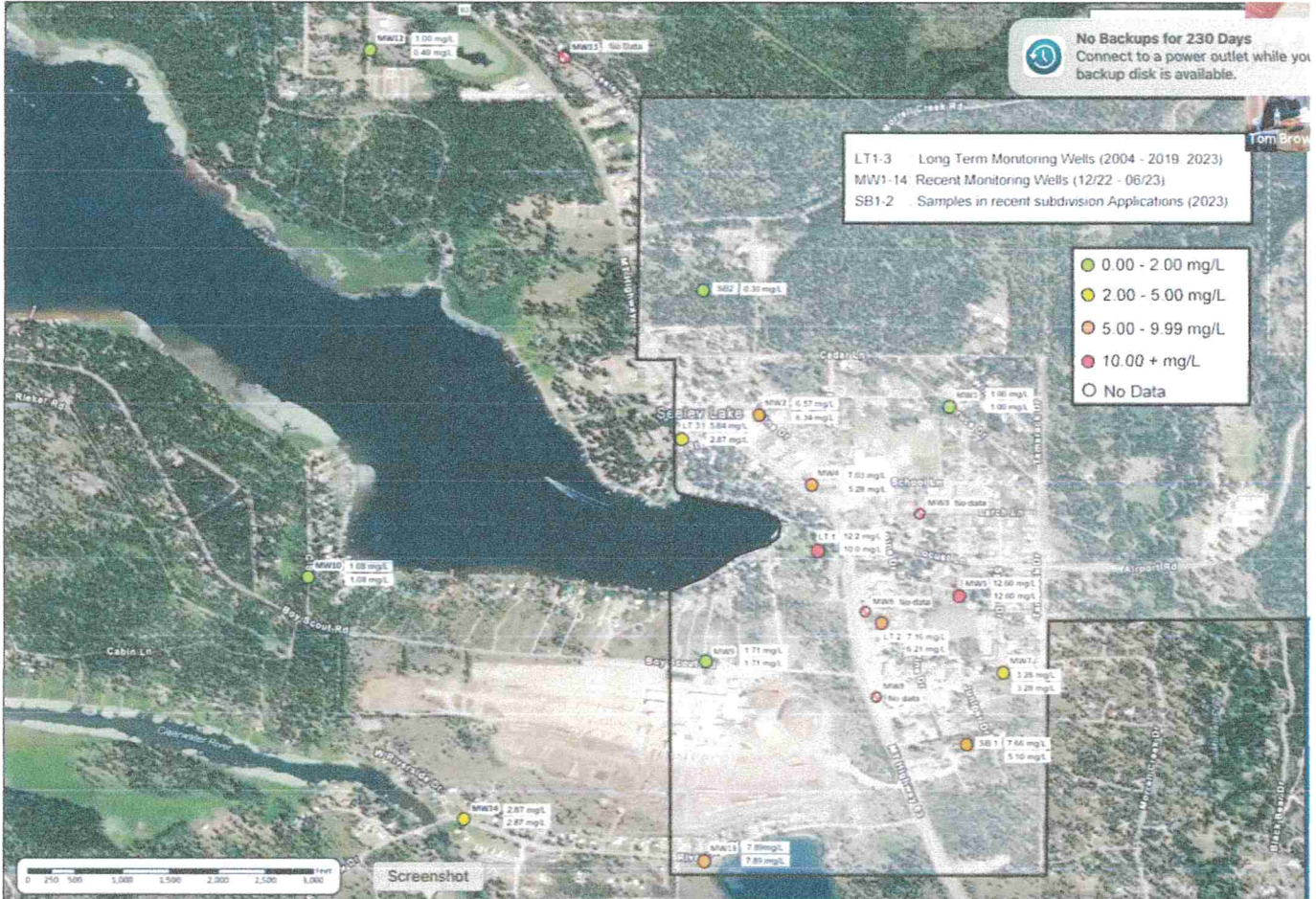


So we have a pretty dense developed area at the toe of the lake and we have ground water moving from the northeast through that dense development towards the lake, including any nutrients.



We have long term nitrate information. This slide shows three long term monitoring wells. We have long term monitoring information supplied by the sewer district and I believe we have this data since about 2001. The southern well has collapsed.

This shows additional nitrate monitoring wells supplied by the sewer district to understand contamination extents and severity. Not surprising the new monitoring data shows that the nitrate issue persists throughout the special management area.



How do you know the contamination is coming from septic tanks.

- #1 CAFOs
 - #2 Large Scale fertilization
 - #3 is septic systems
- We don't have any #1 or #2.



Question:

If Nitrate is such a big deal, then why aren't advanced technology systems required everywhere?

Answer:

Because very few areas have nitrate concentrations this high. It's a combination of:

- specific geology (very little dilution)
- dense development
- no community sewer system



SMA adopted into Health Code in 2015.

At that time, the SLSD was working toward installation of a community wide sewer system.



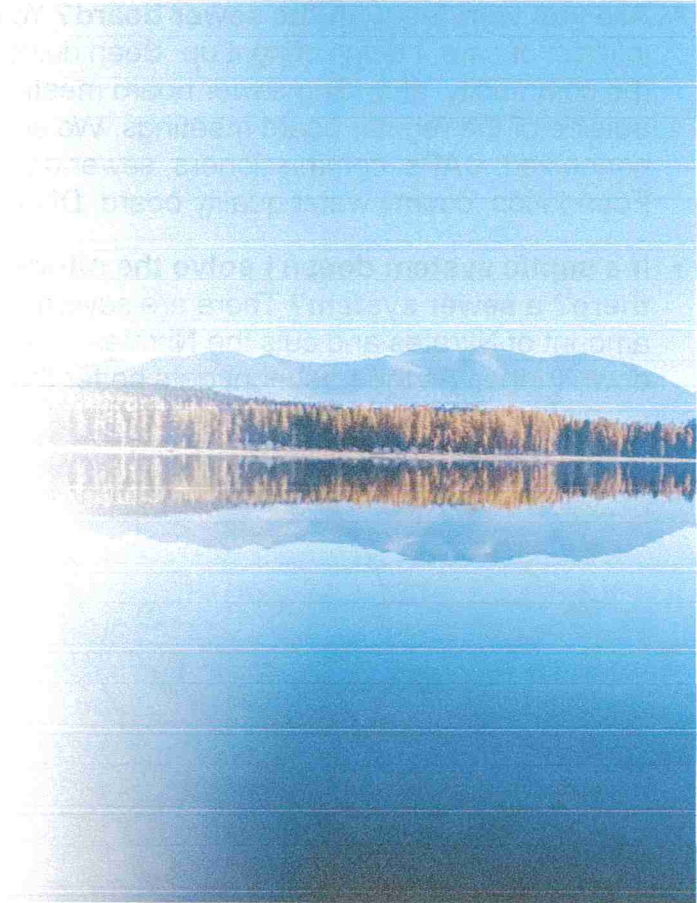
20. SPECIAL MANAGEMENT AREAS.

- (D) Seeley Lake Special Management Area. The following restrictions apply to land located in the NW quarter of T16 R15 Section 2, the East half of T16 R15 S03, and the South half of T17 R15 S35 (see Appendix G).
- (1) New or increased use may not be approved unless the Department determines that it will not cause or contribute to a violation of the nitrate standard established in 76-5-605, MCA.
 - (2) The Department will evaluate septic permit applications on a case by case basis, using the best information available including, but not limited to, nitrate sample results and existing studies on groundwater flow direction. The Department may require an applicant to supply additional information to substantiate that groundwater will be protected.
 - (3) Provided there has been no unapproved increased use, replacement systems will be allowed in this area.

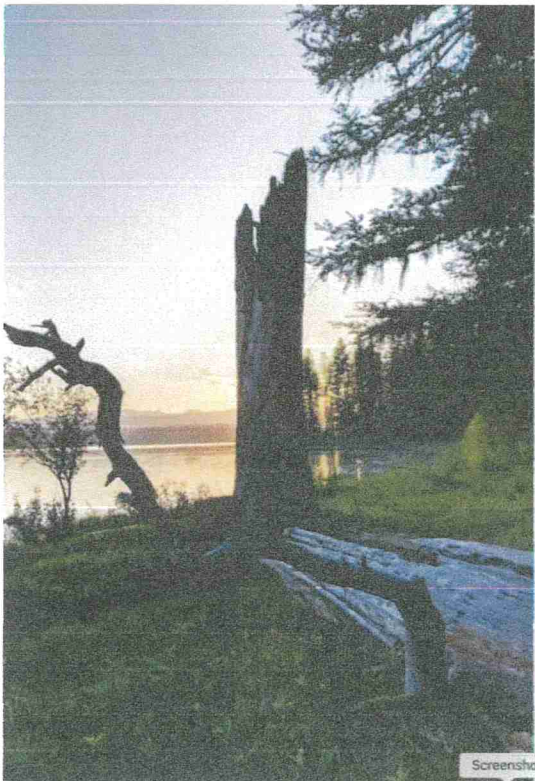
Screenshot

WHY NOW?

- The sewer project has been abandoned.
- The Nitrate levels continue to hold steady and/or increase
- The additional wells show that the N levels are elevated throughout the current SMA.
- The Health Department has a **responsibility** to address this problem.
- The Health Department has a legal **obligation** to address this problem.



Screenshot



Screenshot



Goals

Revise SMA requirements to ensure that they are:

- Protective and effective
- Knowable
- Equitable

Revise the SMA boundaries to protect groundwater and surface water from impacts from septic systems.

Facilitate and encourage community-led solutions.

COMMENTS:

- **Are you working with the sewer board?** Yes I actually have a slide but in the interest of time, I didn't bring it up. Been doing a lot of work; talked to lots of folks in the community, attending sewer board meetings, conversations with their consultants outside of the regular board meetings. We are only one agency, but we want to stay connected. CAPs, commissioners, sewer district board, WET, CRC, Community Foundation, county water quality board, DNRC, DEQ, health board.
- **If a septic system doesn't solve the nitrate problem what other options are there? a sewer system?** There are several Level II systems out there that cut the amount of Nitrates and cuts the Nitrates in half, there is a higher system that cuts it down further. As the treatment gets better the cost gets higher.

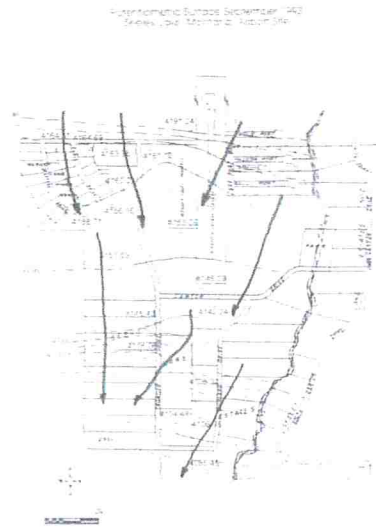
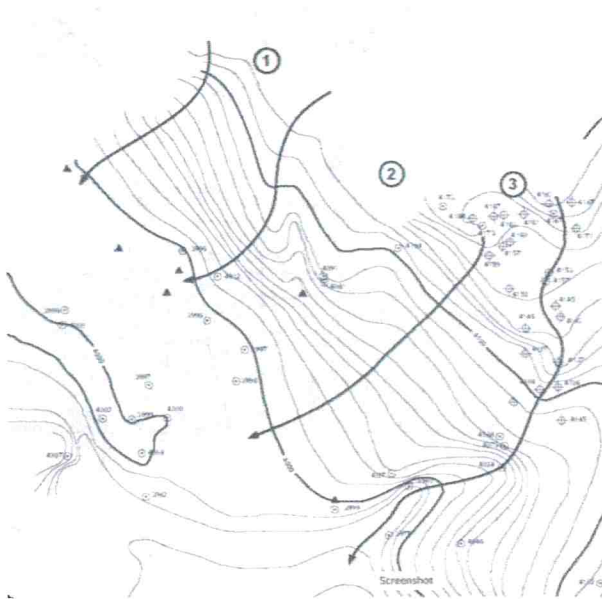
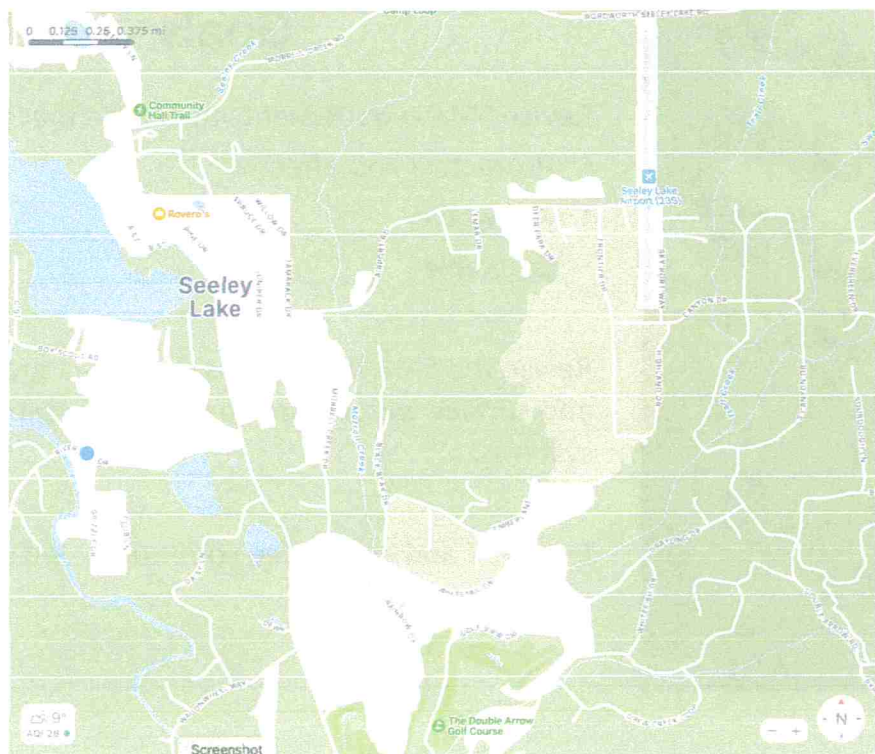


Figure 4-80 Hydrographical surface, Seeley Lake area, site September 1999. Arrows indicate the direction of groundwater flow.

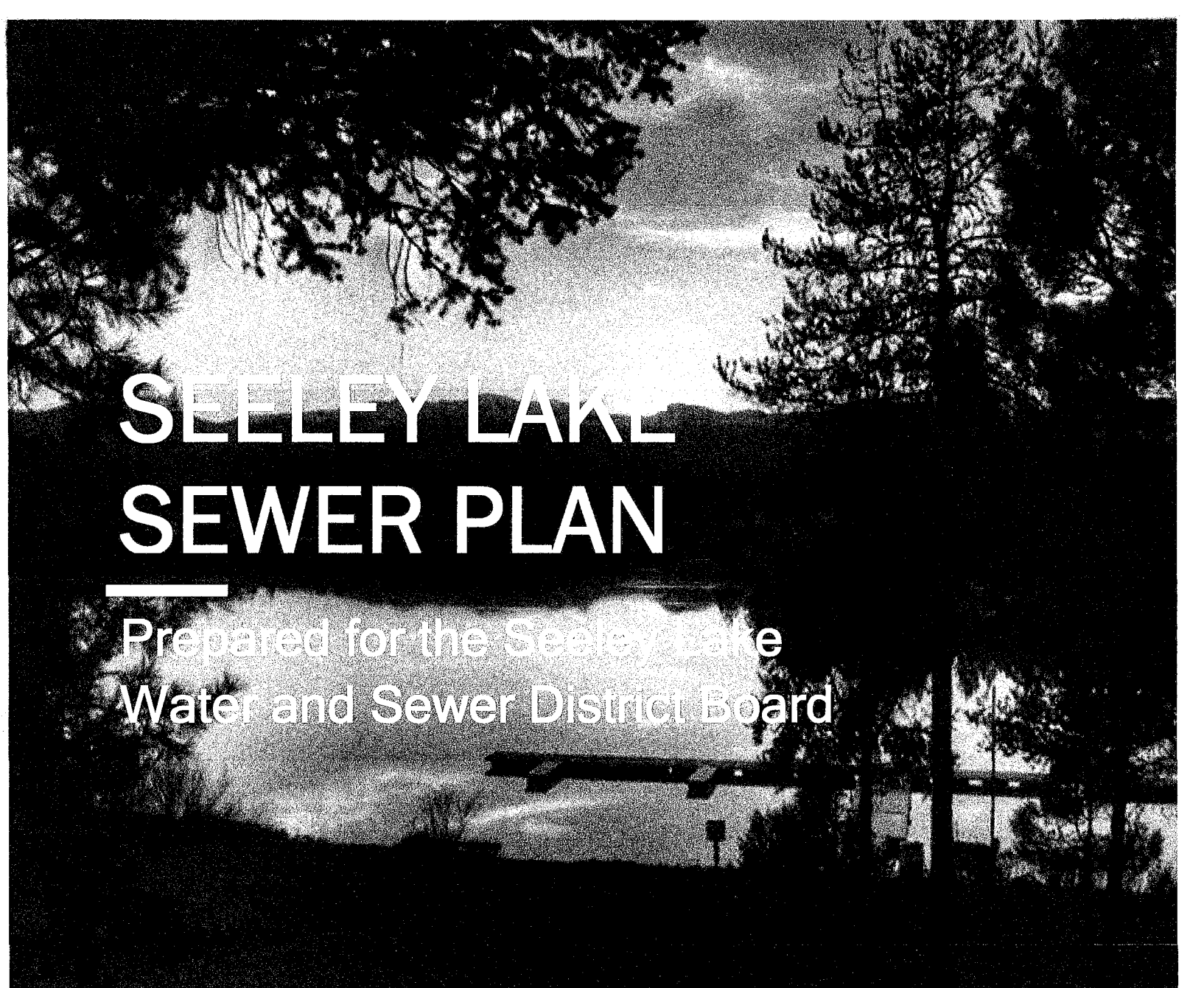


CONCERNS:

- What scientific data was used to create the water flow map into the lake? The flow map up by the airport used a group of well and show the direction of the flow. As well, we know that the flow moves in a more southerly directions because of the water in basements in the spring. The map used to show the flow, was based on suppositions of the soil types as the report says there aren't any wells in the area. The researchers put in three to do some monitoring, but there is no indication that they used these to determine the flow.
- The map of the airport indicated that the water is flowing in a southerly direction. Morrell Creek runs between the airport plateau and the hill behind the elementary school. What effect does this have on the flow? What contaminant levels did the high school/DNRC project show?
- The new monitoring well map shows that the elevated nitrate levels are in a common tangent that is running N-S, not E-W.
- Well #1 on spruce, shows green. #& on Redwood is yellow and #13 on Riverview is orange. If we look at the higher levels of concentration of Nitrates, it appears it is in a more northeast to southwest direction.
- We have a Nitrate problem, but how much of it is likely to be contaminating the lake.

Seeley Lake Sewer District
Operating Budget
FY24 (07/01/23 - 06/30/24)
Adopted 04 20 23

DESCRIPTION	FY2024
Bookkeeping	\$3,000.00
Dues & Subscriptions	\$1,000.00
Election	\$1,000.00
Equipment	\$50.00
Income Survey	\$0.00
Insurance-Liability	\$3,000.00
Legal	\$15,000.00
Licenses & Fees	\$100.00
Office Supplies	\$350.00
Postage	\$600.00
Public Relations	\$750.00
Manager	\$25,685.00
Secretary	\$6,000.00
Training	\$0.00
Travel	\$0.00
Nutrient Budget Analysis	\$11,515.00
Well/Lake Monitoring	\$13,918.88
Drill 5 Wells	\$10,000.00
Engineering Costs	\$25,000.00
TOTAL OPERATING EXPENSES	<u><u>\$116,968.88</u></u>
DISTRICT RESERVE OFFSET	-\$86,965.76
TOTAL AMOUNT BEING ASSESSED & SENT TO DOR	<u><u>\$30,003.12</u></u>



SEELEY LAKE SEWER PLAN

Prepared for the Seeley Lake
Water and Sewer District Board

Emerine Contracting LLC, Montana

December 2023



EMERINE CONTRACTING

Team Background and Experience

Project Director

Darryl Barton – Montana native, Deer Lodge

- Microbiology, BS – MSU Bozeman
- Montana DEQ – 5.5 years
 - Program Supervisor: Compliance, Training, Technical Assistance
- 9 years private business owner – Environmental Consulting
 - Contracts included EPA, State of Montana, Anaconda / Deer Lodge Co., City of Deer Lodge, and many private customers.
- 5 years County Environmental Health Supervisor / Sanitarian
- 9 years Powell County High School Board of Trustees

Emerine Partner / Vacujet Owner

Gary Chilcott – Montana native, Stevensville

- Masters of Education – MSU Billings
- 20 years school teacher and principal
- 15 years developed 13 medical waste plants serving 22 states
- 12 years building the largest wastewater treatment service provider in western North Dakota and operator of a company owned wastewater treatment plant
- 3 years Deer Lodge City Council and Airport Board

Emerine CEO

Kipp Shumway – Montana native, Hardin

- 18 years excavation company
- Manager of over 200,000 feet of sewer lines in Montana

Contract Engineer

Levi Mork, PE – Montana native, Havre

- Everly and Associates
- 15 years engineering all phases of civil engineering

Plant Design Engineer

Rob Burgin, PE

- 51 years experience with over 1000 wastewater plant designs.

Advantages of New Project (MBR) vs. Prior Project (SBR / Great West)

1. Cost of Treatment

- Treatment with the Membrane BioReactor is about half the cost
- Emerine cost \$6 million vs. \$11.9 million Great West SBR
- \$55 / month rate vs. \$81 / month (2.5% at 20 years)

2. Lower O&M and construction costs

- Eliminate most lift stations (7 lift stations to 1 or 2)
- Eliminate most of the pressurized piping
- O&M costs from prior project \$227,000

3. Higher level of treatment

- MBR treatment can achieve about 2.2 mg/L TN
- With a higher level of treatment, we can explore water reuse

4. On-site systems are available that can handle challenging properties at a lower cost.

5. We are capable of doing a Design / Build with a construction company, engineers, permitting and funding personnel.

PLANT DESIGN	COST	GRANT	RATE	PAYMENT	RATE *	DISCHARGE
GREAT WEST (2019)	\$11.9 MILLION 5 MILLION	58%	2.5%	\$26,500	\$81 /MONTH	< 7.5 MG / L TN
2023 COST (ADJ.)	16 MILLION					
MBR PROPOSAL	6 MILLION 2.5 MILLION	58%	2.5%	13,250	\$40 / MONTH 20 YEARS	< 2.2 MG / L TN
COLLECTION (PH 1& 2)	11.5 MILLION 3.5 MILLION	70%	2.5%	18,000	\$55 / MONTH \$95 TOTAL / MONTH 2.5% 20YR	NA
SINGLAIR individual ww treatment 328 connections	\$30,000 328 X \$30,000		5%	\$ 10 MILLION	\$200 / MONTH	< 2.2 MG / L TN

* 20-YEAR TERM COST ESTIMATES

PHASE 1: 139 LOTS RESIDENTIAL, 37 LOTS COMMERCIAL, 176 TOTAL
 PHASE 2: 126 LOTS RESIDENTIAL, 26 LOTS COMMERCIAL, 152 TOTAL
 PHASE 1 & 2: 328 TOTAL

MODULAR MBR/SBR/CAS

Applications

- Decentralized Municipalities
- New Developments
- Rural Communities
- Breweries/Wineries
- Soft Drink Manufacturers
- Food Producers
- Modular Work Camps
- Agricultural/Farms
- Textile Manufacturers
- Military Camps
- Resorts/Casinos
- Hospitals

Plants are delivered ready to commission

All packaged plants arrive at the job site pre-wired, pre-plumbed and factory tested. Plants are shipped with on-board PLC, HMI and SCADA resulting in a true "plug-and-play" package.

HDPE tanks with UV protection package

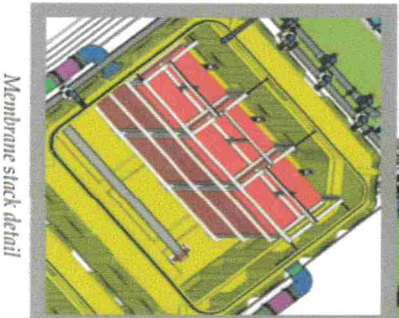
UV-protected HDPE tanks are high-quality, maintenance free tanks far superior to fabricated steel tanks.

Fully skid-mounted MBR/SBR/CAS plant

All equipment is mounted on a skid that is sprayed with the tough, durable Linex® coating to prevent chips and scratches during transport and operation. Skids are designed for truck transport to the customer's site. Skids may be placed inside a building or outside in all climates (heat tracing may be required).

Flat Plate Maxflow® Membranes

The A3 Maxflow® modules are designed specifically to operate in wastewater. They do not clog, and require the lowest scouring air in the industry. With hundreds of installations worldwide, they have proven to be the best investment for all MBR applications.



Membrane stack detail

Treatment Capacity vs. Delivered Skid Size (municipal wastewater)			
Capacity (GPD)	Footprint	Skids	
16,000	20'x12'	1	
32,000	34'x12'	1	
48,000	44'x12'	1	
64,000	64'x12'	1	
82,000	44'x26'	2	
96,000	44'x26'	2	
114,000	64'x26'	2	
132,000	64'x26'	2	
148,000	44'x40'	3	
164,000	64'x40'	3	
182,000	64'x40'	3	
200,000	64'x40'	3	