

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
August 20th @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Michael Harmison
Mayor, Dennis Newberry
City Administrator, Harrison Fry
City Administrator, Devin Lake
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Member at Large, Gary Hamner
Public Works Manager, Osage Beach, Zachary Wilber

3. PUBLIC COMMENT

4. MINUTES

Regular Meeting: July 16th, 2024

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5. REPORTS

Bills List	4-11
Revenue Budget Analysis	12
Expenditure Budget Analysis	13
Income & Expense Summary	14

6. ALLIANCE REPORT OF OPERATIONS

16-38

7. APPROVAL OF FLOW CHARTS

8. OLD BUSINESS

A. Board update.

9. NEW BUSINESS

- A. Amendment of the 2024 Budget, 4020 Equip. & Bldg. Repair and Maintenance to increase \$43,550.00. **pg. 15**
- B. Discuss and review the possibility of moving forward with bidding out the building paint project
- C. Update signature cards for both Central Bank and 1st Bank of the Lake, removing Jeana Woods and adding Devin Lake.

10. ADDITIONAL DISCUSSION ITEMS

11. ADJOURNMENT

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – July 16th, 2024

CALL TO ORDER:

Mayor Newberry called the meeting to order at 4:00 pm on Tuesday, July 16th, 2024, at Lake Ozark City Hall.

ROLL CALL:

Mayor, Michael Harmison- Present
 Mayor, Dennis Newberry – Present
 City Administrator, Harrison Fry - Present
 City Administrator, Jeana Woods - Present
 Alderman, Kevin Rucker- Present
 Alderman, Pat Thompson- Present
 Public Works Director, Matt Michalik – Absent
 Resident Member, Mr. Gary Hamner – Present
 Public Works Manager, Zachary Wilber – Present

PUBLIC COMMENT: None

MINUTES:

Mayor Harmison, motioned to approve the meeting minutes from June 18th, 2024. The motion was seconded by Alderman, Pat Thompson and passed unanimously.

REPORTS:

- Bill List
- Revenue Budget Analysis
- Expenditure Budget Analysis
- Income & Expense Summary

A motion was made by Osage Beach City Administrator, Jeana Woods to approve the Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded City Administrator, Harrison Fry and passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for June was 1.410 mgd. We had 4.8 inches of precipitation measured at the WWTP for June.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.6 mg/l and TSS of 1.8 mg/l respectively for June which represents a 99.2 + % or better removal.

The MLSS average for both aeration basins for June was 6,746 mg/l. The total dry weight sludge inventory for June totaled 400,223 pounds. There were 50 loads of biosolids, or 180,000 gallons land applied for June. We received 78 loads of loads of septage or 175,000 gallons for June.

APPROVAL OF FLOW CHART:

Osage Beach Mayor Harmison, motioned to approve the flow charts. The motion was seconded by Alderman, Pat Thompson and passed unanimously.

OLD BUSINESS:

- A. Board Representative Update. Business as usual at the plant.

NEW BUSINESS:

- A. None

ADDITIONAL DISCUSSION ITEMS:

Alliance policy in regards staffing policy for the plant.

ADJOURNMENT:

With no further business to discuss, a motion was made by Alderman, Kevin Rucker to adjourn. City Administrator, Jeana Woods seconded the motion. The meeting was adjourned at 4:23 pm.

Approved:

Dennis Newberry, Mayor

Robin Craig, Clerk

JOINT SEWER BOARD
BILL LIST
AUGUST 20, 2024

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	2,290.91
OPERATING FUND BILLS TO BE PAID:	\$	60,139.73
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-

TOTAL \$ 62,430.64

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Paid To:	Description:	Amount:
4020	Core & Main LP	HTH for Cleaning Clarifiers	\$ 400.44
4020	CWD Supply	Anchor Bolts for Mud Valve	\$ 23.60
4020	Professional Metal Fabricators	Remove mud valve cleaned & painted	\$ 794.45
4020	Professional Metal Fabricators	Remove replace ducking skimmer	\$ 463.82
4020	Milwaukee Rubber Products	Valve for Sludge Trk	\$ 482.85
4176	Allied Services	August	\$ 82.90
4176	AT&T	July	\$ 42.85
TOTAL			\$ 2,290.91

OPERATING FUND BILLS TO BE PAID:

Account	Paid To:	Description:	Amount:
4000	Equipment Replacement Fund	Payment into ER Fund	\$ 8,750.00
4020	Controlled HVAC	AC Unit Maintenance UV Room	\$ 141.50
4020	Heartland Environmental	Bacteria for Ditches	\$ 1,520.00
4020	Martin Energy Group	Repair Generator	\$ 459.17
4020	Menards	70725 Shipping Supplies/Actuator	\$ 27.67
4020	Menards	70772 Shipping Supplies/Actuator	\$ 13.05
4020	Menards	71234 Weedeater line & clamps	\$ 32.54
4020	Menards	71480 Weed killer & cultivator	\$ 76.97
4020	Menards	70957 Cleaning Supplies	\$ 8.96
4020	M/C QuickBooks	U-Bolts & All Thread Clar. #1	\$ 172.40
4020	M/C QuickBooks	Accounting Software	\$ 30.00
4150	M/C QuickBooks	Deck wheel for mower	\$ 24.99
4020	Professional Metal Fabricators	Repair Ducking Skimmer/Valve UV Dr	\$ 2,106.79
4020	Wallis Lubricant	Fuel for Generator	\$ 1,104.13
4020	Woodley Building Main.	Janitorial - August	\$ 330.00
4150	Dennis Oil Co.	DEF for Sludge Trk	\$ 189.00
4170	Alliance Water Resources Inc	August	\$ 30,321.00
4175	Ameren MO	11673321	\$ 14,484.67
4175	Ameren MO	98041275	\$ 346.89
TOTAL			\$ 60,139.73

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

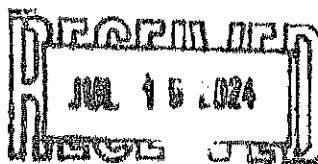
Account	Paid To:	Description:	Amount:
4000			\$ -
TOTAL			\$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Paid To:	Description:	Amount:
4000	JCI Industries	Replacement RAS Pumps	\$ -
TOTAL			\$ -

Heartland Environmental Distributors,
Inc
2401 N Seth Child Rd Lockbox 8
Manhattan, KS 66503
+1 5735924815
sales@heartlandorders.com

Invoice 105799



BILL TO	SHIP TO
Joint Sewer Board	Joint Sewer Board
Po Box 1985	#3 Anderson Road
Lake Ozark, MO 65049	Lake Ozark, MO 65049

DATE
07/12/2024

PLEASE PAY
\$1,520.00

DUE DATE
08/11/2024

P.O. NUMBER
1910

DATE	PRODUCT	DESCRIPTION	QTY	RATE	AMOUNT
	VS17	SEBs for Ammonia (8x5gal palls)	40	38.00	1,520.00T
	VS17	SEBs for Sludge (5x5gal palls N/C)	25		0.00T
					0.00

Thank you for your business, we appreciate you!

SUBTOTAL	1,520.00
TAX	0.00
TOTAL	1,520.00

TOTAL DUE **\$1,520.00**

THANK YOU.

BACTERIA FOR THE DITCHES & DIGESTERS

GL Acct#: 4020

Signature: [Signature]

Date: 7/15/24

Please Remit payment to our new mailing address

2401 N Seth Child Rd Lockbox 8
Manhattan, KS 66503



Professional Metal Fabricators
7511 Liberty Road
Jefferson City, MO 65101
Phone: (573) 634-1069

Invoice

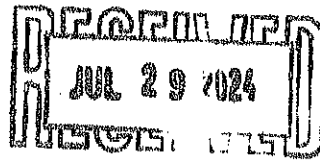
Invoice Number
24-0404
Invoice Date
7/29/2024

Bill To: Joint Sewer Board
#3 Anderson Rd
P.O. Box 1985
Lake Ozark, MO 65049

Ship To:

Re: AW Misc Repairs

Lake Ozark, MO



Job No.	Customer Job No.	Customer PO	Payment Terms	Due Date
24-0404			Net 30 Days	8/29/2024
Date	Quantity	Description	Rate/Unit	Price
7/29/2024	20.50	LABOR	81.89	1,674.57
7/29/2024	1.00	MATERIAL	328.82	328.82
7/29/2024	1.00	EQUIPMENT	103.40	103.40

REPAIR OF DUCKING SKIMMER TROUGH &
DUCKING SKIMMER ARM ON CLARIFIER #1
+ INSTALLED NEW MUD VALVE + STEM IN
UV DRAIN PIT

GL Acct#: 4020

Signature: [Signature]

Date: 7/29/24

Subtotal \$ 2,106.79
Sales Tax (if applicable) \$ 0.00

Total Due \$ 2,106.79

Thank you for your business!

Wallis Lubricant, LLC

Invoice

Page: 1

#1 Midwest Drive, Pacific MO 63069
445 Sunshine Road, Kansas City KS 66115
4732 Cedar Drive, Joplin MO 64804
1601 Christy Drive, Jefferson City MO 65101
1738 Midway Drive, Linn Creek MO 65052
PO Box 1186
888-677-8809 telephone

REMIT TO:
WALLIS LUBRICANT, LLC
P.O. BOX 790379
ST. LOUIS, MO 63179

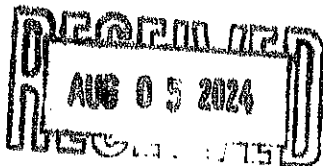
Invoice Number: 119540L-IN
Invoice Date: 7/31/2024
Order Number: 0119540
Order Date: 8/1/2024
Salesperson: Lake Linn
Customer Number: 50-0410822

Sold To:

Joint Sewer Board
PO Box 1985
Lake Ozark, MO 65049

Ship To:

Joint Sewer Board
#3 Anderson Road
Lake Ozark, MO 65049(573) 216-8398 Ext: Gary



Confirm To:

Customer P.O.	Ship VIA	F.O.B.	Terms Net 30 Days from Invoice Date			
Item Number	Unit	Ordered	Shipped	Back Ordered	Pkg Price	Amount
#2LS0YEDDSL GAL	GAL	350.00	372.00	0.00	2,9560	1,099.63
#2 ULTRA L.S. DIESEL (DYED) NA1993, Diesel Fuel, 3, PGIII						
Fuel Tax Recap						
Federal UST Fee-Diesel DYED					0.00100	0.37
Federal Oil Spill Fee-Diesel D					0.00214	0.80
Federal Superfund-Diesel DYED					0.00405	1.51
Inspection Fees-Diesel DYED					0.00490	1.82

FUEL FOR THE BACKUP
GENERATOR

GL Acct#: 4020

Signature: *[Handwritten Signature]*

Date: 8/5/24

EFFECTIVE 1/1/11, A 1.5% FINANCE CHARGE OR \$2.50
MINIMUM FEE WILL BE APPLIED TO PAST DUE INVOICES.

*Follow us on Facebook and check out our website at www.wallislubricants.com!

Net Invoice: 1,104.13
Less Discount: 0.00
Freight: 0.00
Sales Tax: 0.00
Invoice Total: 1,104.13
Less Deposit: 0.00
Invoice Balance: 1,104.13



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- Pay by mail: PO Box 88088, Chicago, IL 60680-1088
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.677.426.3730

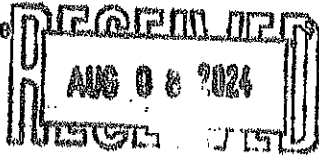
FOCUSED ENERGY. For life.

Account Number 468006832
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD.,
 LAKE OZARK, MO 66049

Current Detail for Statement 08/08/2024

Total Electric Charges \$14,484.67

Total Amount Due \$14,484.67



AMOUNT DUE \$14,484.67

Due Date 08/29/2024

Amount After Due Date \$14,629.62

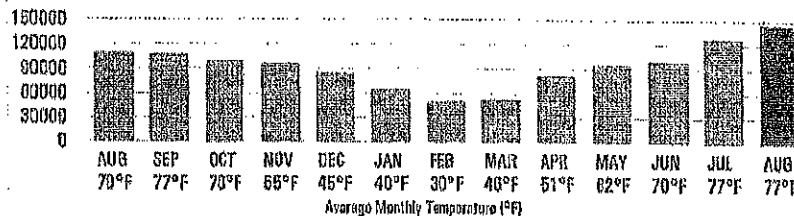
Previous Statement \$13,181.11

Total Payments \$13,181.11

Payment Received Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using **5.5% more** than the same time period last year.

2023 678,880 kWh

2024 716,320 kWh

13073 00355 2215707 009461 012901 00010002

Electric Service Details

Service from 07/08/2024 - 08/08/2024 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
06783299	07/08 - 08/08	29	Total kWh	Actual	1654.0000	647.0000	807.0000	100.0000	145120.0000
06783299	07/08 - 08/08	29	On Peak kWh	Actual	851.0000	229.0000	331.0000	100.0000	62960.0000



See next page for service details.

Keep this portion for your records.

GL Acct#: 4175

Signature: *[Signature]* Page 1 of 4

Please return this portion with your payment

Date: 8/8/24



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Amount Due	Due Date
\$14,484.67	August 29, 2024
Delinquent Amount After Due Date	Account Number
\$14,629.62	468006832

Amount Enclosed \$

>003285 2315767 0011 092139 102

ALLIANCE WATER RESOURCES INC
 PO BOX 1985
 LAKE OZARK, MO 66049-1985

AMEREN MISSOURI
 PO BOX 88088
 CHICAGO IL 60680-1088

00600000 0045800058302 000014484670 000014484670



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- Customer Service: 1.877.426.3736

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Electric Service Details (Continued)									
METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
05793289	07/08 - 08/08	28	Off Peak kW	Actual	1,4780	0.0000	1,4780	180.0000	236.4800
05793288	07/08 - 08/08	28	On Peak kW	Actual	1.5000	0.0000	1.5000	100.0000	240.0000

Usage Summary

Total kWh	145120.0000	Summer kWh	145120.0000
Peak kW	240.0000	On-Peak kW	240.0000
Off-Peak kW	236.5000	Sec. Energy Block kW	240.0000
Billing Demand	240.0000	Total Billing Demand	240.0000
October Winter Base kW	178.6000	Winter Base Demand	178.6000
Base kWh Ratio	0.7441	Base kWh (HUD)	0.0000
Seasonal kWh (HUD)	0.0000		

Rate 3M Large General Service

Secondary Srvc Off-Pk Demand Rider

Secondary Srvc Off-Pk Demand Rider

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04080000	\$0.00
Summer Demand Charge	240.00	kW	@ \$ 6.19000000	\$1,485.60
Energy Charge/Hours Used	36,000.00	kWh	@ \$ 0.11120000	\$4,003.20
Energy Charge/Hours Used	48,000.00	kWh	@ \$ 0.08360000	\$4,012.80
Energy Charge/Hours Used	81,120.00	kWh	@ \$ 0.05830000	\$3,441.06
Customer Charge				\$110.55
Fuel Adjustment Charge	145,120.00	kWh	@ \$ 0.00400000	\$580.48
Energy Efficiency Investment Charge	145,120.00	kWh	@ \$ 0.00382400	\$554.94
Renewable Energy Adjustment	145,120.00	kWh	@ \$ 0.00204000	\$296.04
Total Service Amount				\$14,494.67
Total Electric Charges				\$14,494.67

Questions? Contact Ameren Missouri at 1.877.426.3736 or visit AmerenMissouri.com.

Page 2 of 4

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 Phone Number _____

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Account Number 5580005920
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65048

AMOUNT DUE \$346.89

Due Date 08/29/2024

Amount After Due Date \$350.36

Previous Statement \$181.29

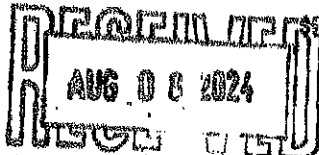
Total Payments \$181.29

Payment Received: Thank You

Amount Due for Statement 08/08/2024

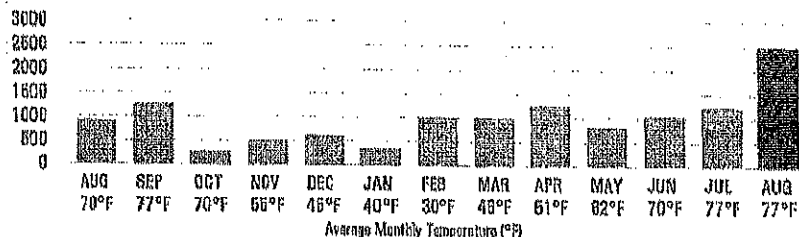
Total Electric Charges \$346.89

Total Amount Due \$346.89



Electric Usage History

Electric Usage In Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using **11.9% more** than the same time period last year.

2023 8,170 kWh

2024 9,142 kWh

13073 05283 2316767 035447 872893 00010002

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.

GL Acct#: 4175

Signature: [Signature]

Date: 8/8/24

» See next page for service details.

Keep this portion for your records.

Page 1 of 4



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Amount Due	Due Date
\$346.89	August 29, 2024
Delinquent Amount After Due Date	Account Number
\$350.36	5580005920

Amount Enclosed \$

0008283 2315767 0011 072139 102

ALLIANCE WATER RESOURCES INC
 PO BOX 1985
 LAKE OZARK, MO 65048-1985

AMEREN MISSOURI
 PO BOX 88088
 CHICAGO IL 60680-1088

50633000 0055800059200 000000346890 000000346890



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- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.428.3736

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Electric Service Details Service from 07/01/2022 to 08/01/2024 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
70843410	07/01 - 08/01	29	Total kWh	Actual	8842.0000	8341.0000	2501.0000	1.0000	2501.0000
70843410	07/01 - 08/01	29	Base kWh	Actual	1000.0000	0.0000	1000.0000	1.0000	1000.0000

Usage Summary

Total kWh	2501.0000	Summer kWh	2501.0000
Winter Base kWh	1000.0000	Current Base kWh	1000.0000
Summer Cur Base kWh	1000.0000	Seasonal kWh	1501.0000
Summer Seasonal kWh	1501.0000		

Rate 2M Sm Gen Svc - 3 Ph w/Dmd

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Summer Total Energy Charge	2,501.00	kWh	@ \$ 0.11970000	\$298.37
Seasonal Energy Charge	0.00	kWh	@ \$ 0.05160000	\$0.00
Customer Charge				\$23.07
Fuel Adjustment Charge	2,501.00	kWh	@ \$ 0.00400000	\$10.00
Energy Efficiency Investment Charge	2,501.00	kWh	@ \$ 0.00379900	\$9.36
Renewable Energy Adjustment	2,501.00	kWh	@ \$ 0.00204000	\$5.10
Total Service Amount				\$346.89
Total Electric Charges				\$346.89

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
July 22, 2024	\$181.29

Questions? Contact Ameren Missouri at 1.877.428.3736 or visit AmerenMissouri.com.

Page 2 of 4

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**MONTH-TO-DATE AND YEAR-TO-DATE
REVENUE/BUDGET ANALYSIS**

7/31/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 7/31/2024	2024 July Revenue	Percent YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	293,867.33	42,334.74	57%
3010	Lake Ozark	91,794.26	87,143.84	97,552.00	56,949.34	8,473.59	58%
3030	Misc.	1,094.92	234.08	0.00	0.00	0.00	0%
3100	Interest	2,462.35	5,522.07	5,000.00	7,944.26	1,631.54	159%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	33,050.00	4,675.00	58%
Total Operating Fund		605,550.23	647,261.98	671,700.00	391,810.93	57,114.87	58%
E/R Fund Income		3,588.63	15,192.01	12,000.00	12,603.75	1,975.69	105%
TOTAL INCOME		609,138.86	662,453.99	683,700.00	404,414.68	59,090.56	59%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
7/31/2024**

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 7/31/2024	2024 July Expenses	Percent YTD
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000.00	56,250.00	8,750.00	56%
4020	*Maintenance & Repair	60,030.11	84,665.12	64,000.00	65,873.76	847.20	103%
4140	Insurance	22,088.00	22,791.00	26,210.00	27,213.00	186.00	104%
4150	Vehicle Repair/Main	5,999.58	3,255.47	9,000.00	1,832.54	498.29	20%
4170	Contract Management	331,080.00	353,592.00	374,808.00	212,247.00	30,321.00	57%
4175	Electric	79,890.16	88,547.80	87,000.00	45,520.22	7,563.46	52%
4176	Utilities Misc.	3,694.18	4,579.70	4,700.00	1,978.82	116.21	42%
4190	Bank Charges	12.00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	2,900.00	0.00	100%
4240	Capital Purchases	0.00	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	620,234.09	668,618.00	413,815.34	48,282.16	62%
	**E/R Expenses	202,161.70	113,313.66	195,000.00	193,330.29	188,500.00	99%
	TOTAL EXPENSES	880,612.07	733,547.75	863,618.00	607,145.63	236,782.16	70%

4020 DETAIL: Equip & Bldg. Repair/Main.

	2024	2023
Regular Maintenance	20,000	
UV Bulbs, Quartz Sleeves, Misc	11,000	
Painting RAS basement piping &	30,000	
Paint Clarifier #2		43,550
Rock for road	3,000	
	64,000.00	

DETAIL: Equipment & Replacement

Replace RAS Pumps & Check Valves	195,000	188,500
	195,000.00	X

OPERATING FUND INCOME AND EXPENSE SUMMARY
7/31/2024

Beginning Balance	351,243.85
Income - Osage Beach	42,334.74
Income - Lake Ozark	8,473.59
Income - Other	-
Income - Waste Haulers' Fees	4,675.00
Interest - Checking	25.31
Income - CD Interest	1,606.23
Transfers From E/R Fund	-
Transfers To E/R Fund	(8,750.00)
Expenses	(50,442.21)
Ending Fund Balance	349,166.51
Central Bank - NOW Acct.	113,530.48
	-
CD First Bank of the Lake, 2/20/25 #8432	113,608.14
CD First Bank of the Lake, 1/22/25 #8433	122,027.89
	-
Outstanding Checks:	-
	349,166.51

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
7/31/2024

Beginning Balance	542,116.72
Interest - Checking	523.15
Income - CD Interest	1,452.54
Transfers From Operating Fund	8,750.00
Income - Miscellaneous	-
Expenses	(188,500.00)
Ending Fund Balance	364,342.41
First Bank of the Lake - Money Mkt.	55,307.58
CD First Bank of the Lake, 4/30/25 #8430	119,034.83
CD First Bank of the Lake, 8/07/25 #8434	190,000.00
	-
	-
Outstanding Checks:	-
	364,342.41

JOINT SEWER BOARD

DATE OF MEETING: August 20, 2024

AMENDMENT OF THE 2024 BUDGET

ACTION: JOINT SEWER BOARD APPROVAL OF BUDGET AMENDMENT

DEADLINE: YES, PRIOR TO YEAR-END

Based on previously approved expenses and estimated for the remainder of the year, the following line items amendments are needed.

	<u>Org. Budget</u>	<u>Amended</u>	<u>Increase</u>
4020 Equip & Bldg. Repair and Maintenance	\$64,000.00	\$107,550.00	\$43,550.00

November 21, 2023, Board approved \$28,775.00 to Hogan's Inc. for Clarifier Paint Project. \$30,000.00 was included in the 2023 projected expenses.

December 19, 2023, Board approved more time and material of \$14,775.00.

April 2024, the total of \$43,550.00 was paid to Hogan's Inc.

OUR MISSION

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations, careful management and financial oversight, and ensured regulatory compliance.

**Alliance Water
Resources,
Inc.**

**206 S. Keene
St.
Columbia, MO
65201**

(573)874-8080



REPORT OF OPERATIONS

**LAKE OZARK/OSAGE BEACH
Joint Wastewater Treatment Plant No. 1**

Month of July 2024

Submitted by Alliance Water Resources, Inc. for the

August 2024

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work-related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform mg/L	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	1.5	1.5	N/A	10.0		0.09	< 2.0
Peak Day	2.1	1.9	7.9	< 20.0		0.17	< 2.0
Percent Removal	99.4	99.5	N/A	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform mg/L	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126		1.5	10
Weekly Average	45	45		630			
Daily Max				N/A		12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.546 MGD or 52% of Permitted flow with Lake Ozark contributing 16% of the total flow and Osage Beach contributing 84%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 97340 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 81 tanker loads of bio-solids during the month equivalent to a total of 291,600 gallons and 90,582 pounds dry weight solids.

280,004 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 337,500 gallons with a level of 3.0 feet in Tank 1 and 4.5 feet in Tank 2.

WASTEHAULERS

The plant received 46 loads of septage during the month totaling 93,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- The ammonia came back up over the 4th of July weekend. We added some more nitrifying bacteria on the 8th and was down below a 1 by the 10th.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- When making rounds on the 4th of July we noticed that the backup generator was in fault mode. We called the Tech with Martin Energy Group, and they came out and found a fuse that was blown on top of the genset. He didn't have the correct fuse but got it back in service. He ordered the correct fuse and came back on the 26th and installed it.
- We informed JCI that the new RAS pump #3 wasn't pumping correctly on the 9th and they came in on the 18th and swapped it out with the new spare.
- PMF was here on the 12th of July to repair the ducking skimmer trough and arm. They also installed the new mud valve and arm in the UV dry pit.
- We had a power outage at 1:45 am on the 15th of July and the generator ran for approximately 4 to 4 ½ hours and when the transfer switch tried to switch back to normal power it flipped the breaker inside the transfer switch panel causing us to manually reset it.
- The skimmer arm mechanism on Clarifier #1 quit on the 17th of July. We called the company that we purchased it from, and they tried to help troubleshoot it. They determined that it needed to be shipped back to them for repair or replacement, which will be covered under warranty.

SAFETY

- We started a new monthly Safety Meeting process to where the employee is assigned a safety meeting topic through our AWR UKG Learning site which is due by the 15th of each month. This month's topic was Heat Stress – Symptoms & Treatment for Heat Related Illness and Driver Safety – Safe & Defensive Driving.

REGULATORY AGENCY, INSPECTION AND REPORT

- We filled out the new EDMR on the EPA MoGEM website on the 6th of August.

MISCELLANEOUS AND RECOMMENDATIONS

- We have included our AWR 3rd Quarter 2024 Regulatory Compliance Report (see attachments)

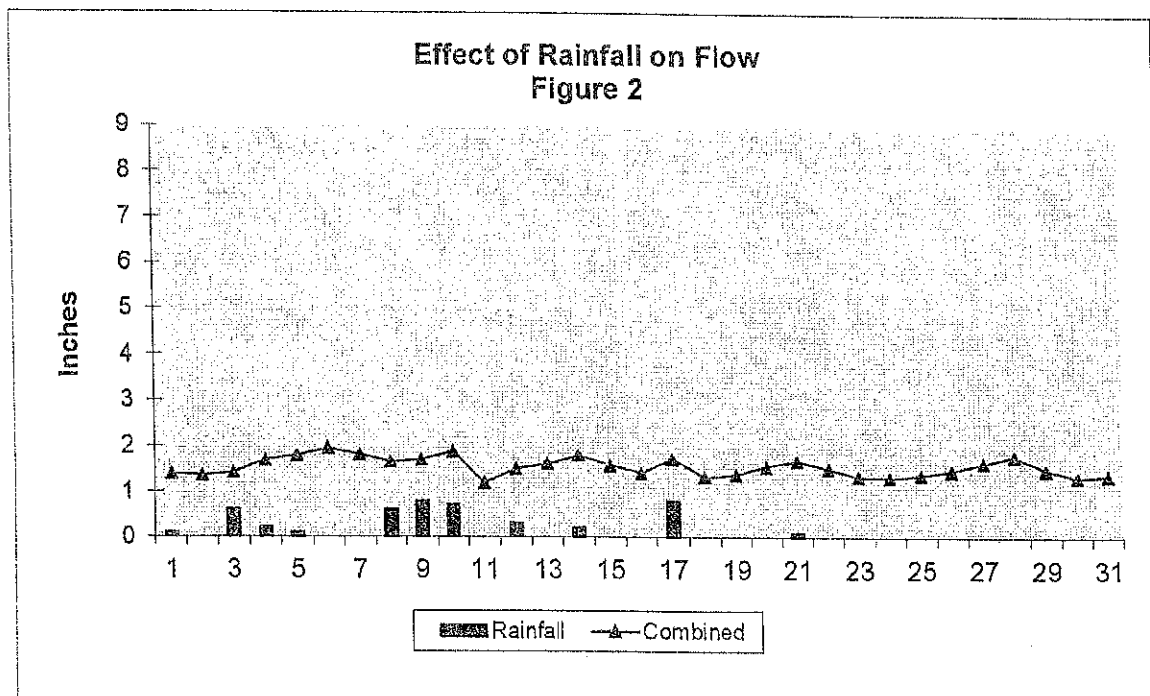
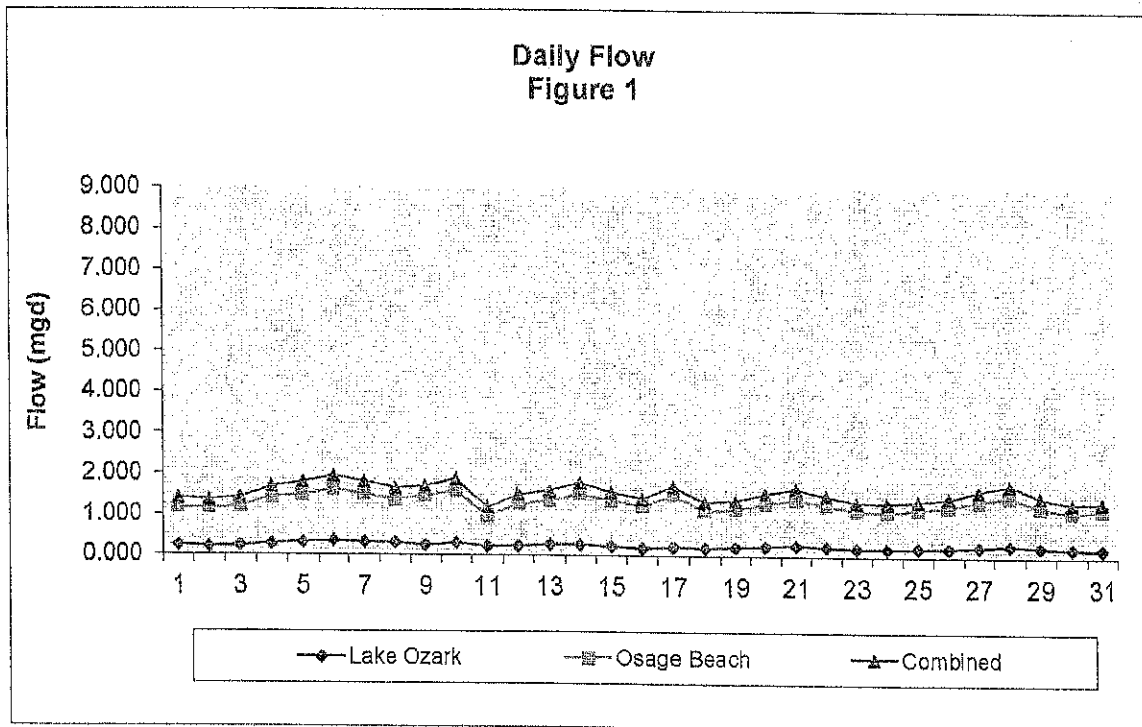
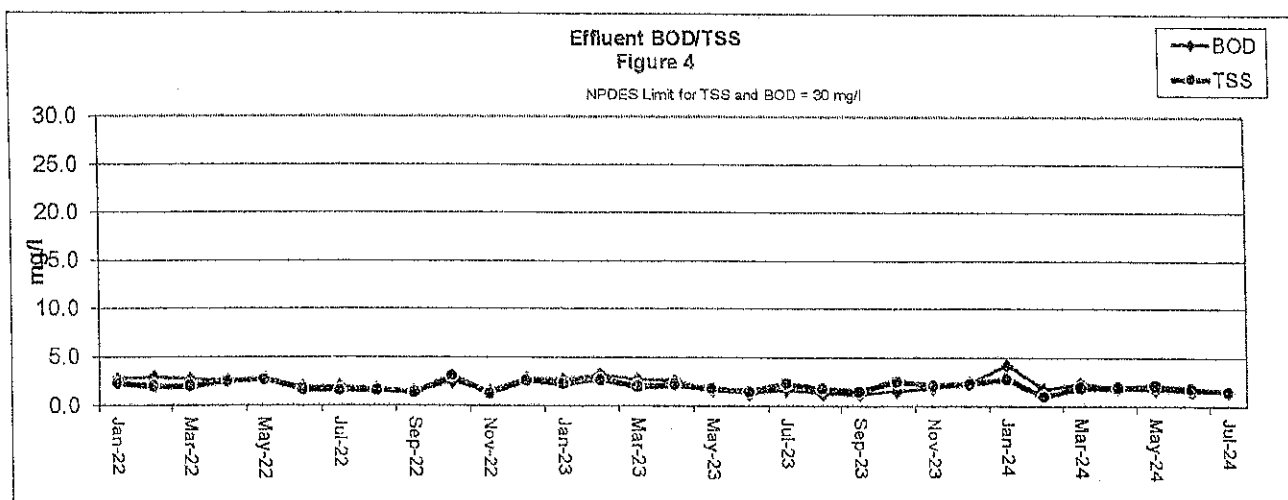
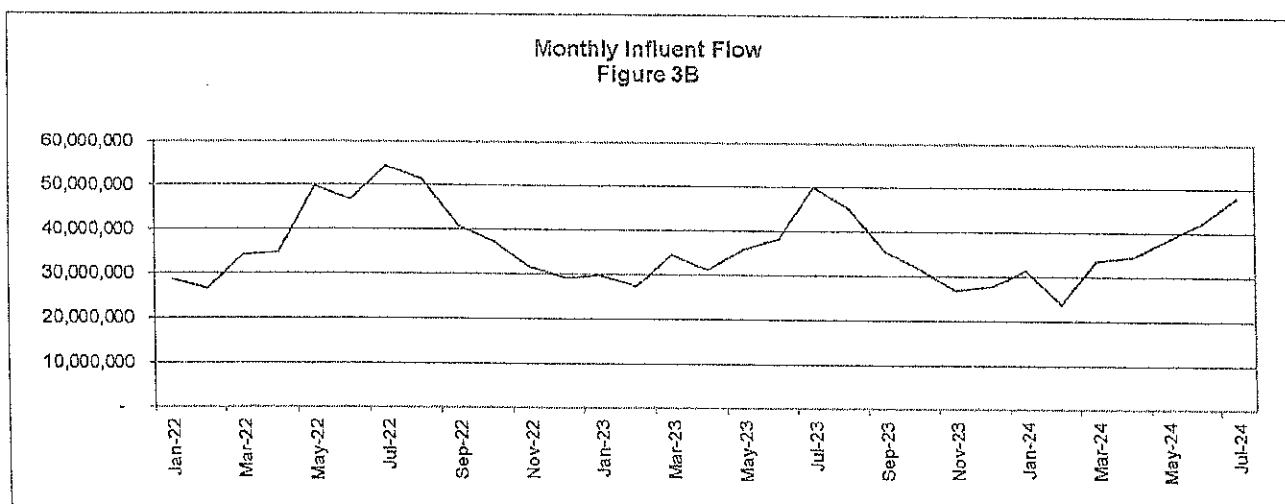
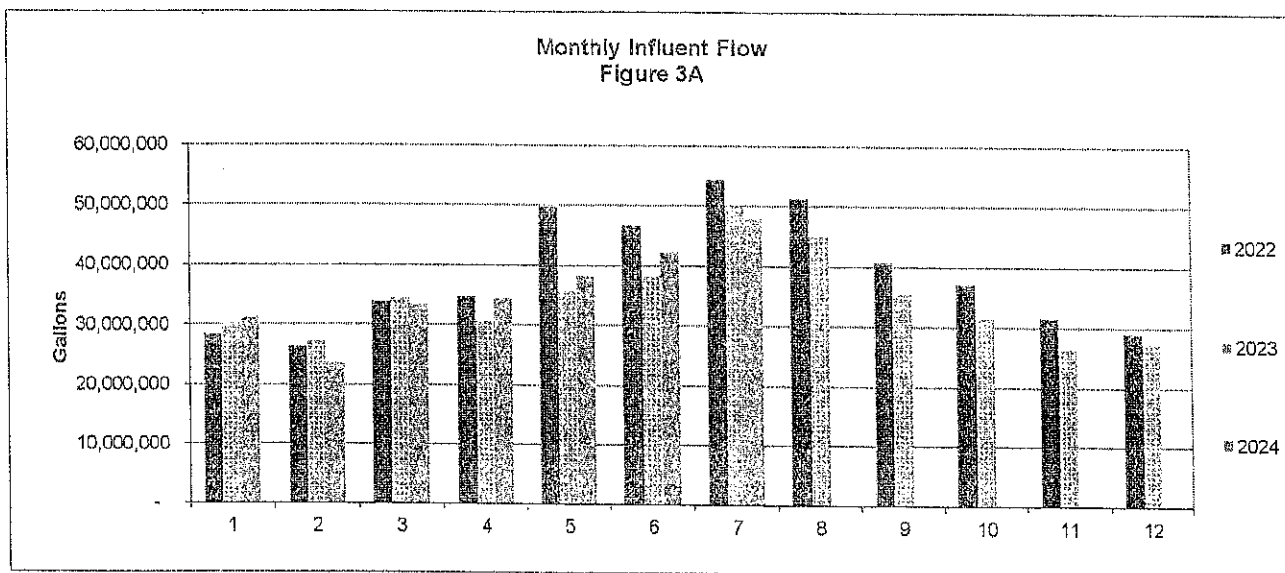


TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2022</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100%
May	9.1	41,076,000	83%	8,597,000	17%	49,673,000	100%
June	3.3	39,125,000	84%	7,563,000	16%	46,688,000	100%
July	2.6	45,728,000	84%	8,591,000	16%	54,319,000	100%
August	6.8	42,549,000	83%	8,716,000	17%	51,265,000	100%
September	2.4	34,238,000	84%	6,499,000	16%	40,737,000	100%
October	5.2	31,814,000	86%	5,317,000	14%	37,131,000	100%
November	4.5	26,905,000	85%	4,739,000	15%	31,644,000	100%
December	1.9	24,749,000	85%	4,376,000	15%	29,125,000	100%
	52.7	388,482,000	84%	75,577,000	16%	464,059,000	100%
<u>2023</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	25,972,000	87%	3,812,000	13%	29,784,000	100%
February	3.9	23,448,000	86%	3,820,000	14%	27,268,000	100%
March	6.2	29,920,000	87%	4,559,000	13%	34,479,000	100%
April	1.3	26,903,000	87%	4,085,000	13%	30,988,000	100%
May	2.1	29,783,000	83%	5,950,000	17%	35,733,000	100%
June	0.9	32,155,000	84%	6,040,000	16%	38,195,000	100%
July	7.1	42,263,000	85%	7,678,000	15%	49,941,000	100%
August	8.3	37,375,000	83%	7,664,000	17%	45,039,000	100%
September	2.5	29,574,000	83%	5,917,000	17%	35,491,000	100%
October	3.2	26,468,000	84%	5,067,000	16%	31,535,000	100%
November	1.0	22,375,000	84%	4,282,000	16%	26,657,000	100%
December	3.4	23,026,000	84%	4,445,000	16%	27,471,000	100%
	42.7	349,262,000	85%	63,319,000	15%	412,581,000	100%
<u>2024</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	4.8	26,487,000	85%	4,806,000	15%	31,293,000	100%
February	1.1	20,148,000	85%	3,491,000	15%	23,639,000	100%
March	5.1	27,206,000	81%	6,214,000	19%	33,420,000	100%
April	7.3	28,925,000	84%	5,502,000	16%	34,427,000	100%
May	7.4	31,860,000	83%	6,377,000	17%	38,237,000	100%
June	4.8	36,193,000	86%	6,117,000	14%	42,310,000	100%
July	4.5	40,465,000	84%	7,467,000	16%	47,932,000	100%
August							
September							
October							
November							
December							
	35.0	211,284,000	84%	39,974,000	16%	251,258,000	100%

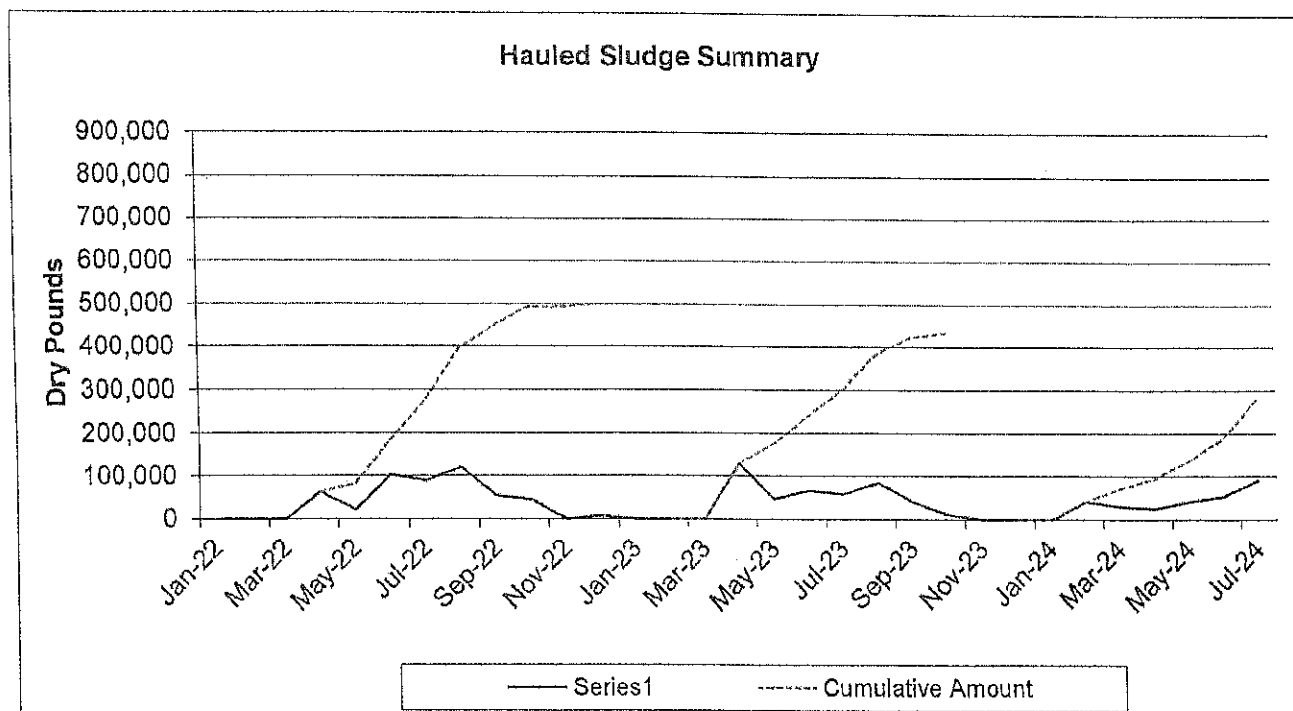
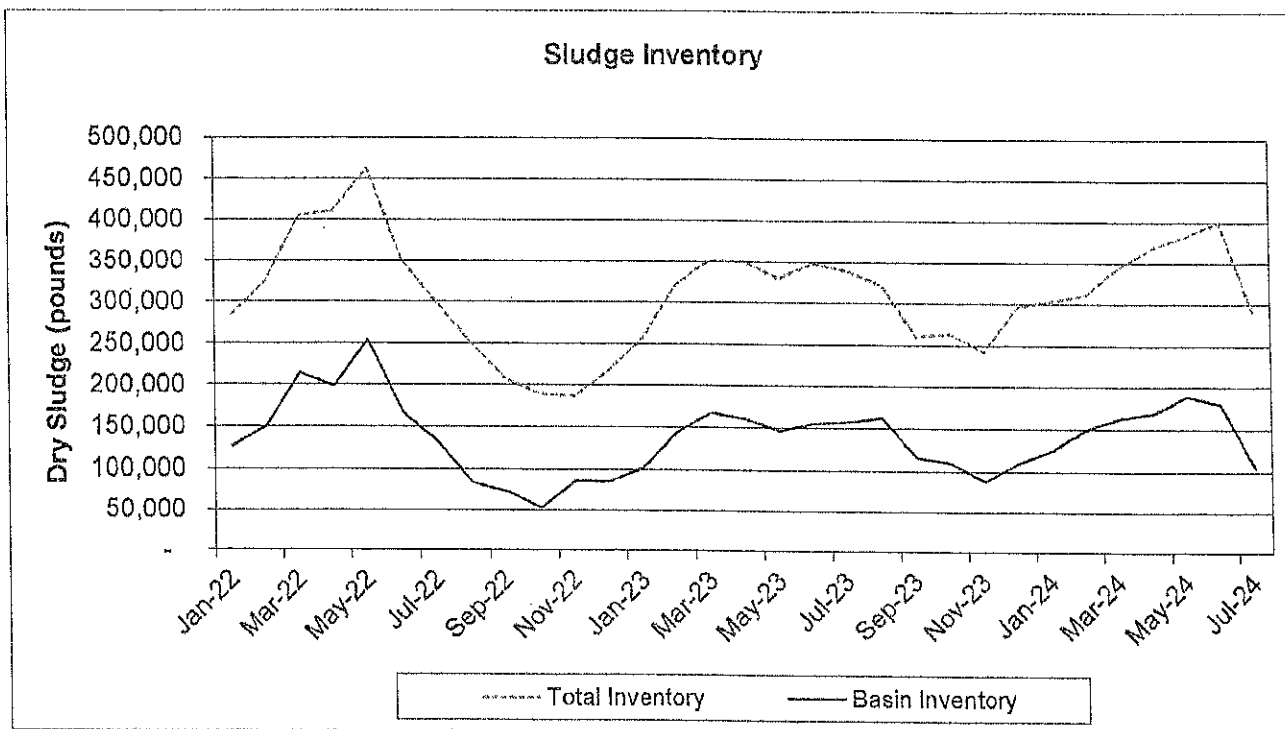


	Hauled Sludge				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-22	0	-	0	4.5%	
Feb-22	0	-	0	4.0%	
Mar-22	0	-	0	4.4%	
Apr-22	47	169,200	62,120	4.4%	62,120
May-22	16	57,600	21,017	4.4%	83,137
Jun-22	84	302,400	102,052	4.0%	185,189
Jul-22	80	288,000	88,961	3.7%	274,150
Aug-22	108	388,800	120,426	3.7%	394,576
Sep-22	51	183,600	54,073	3.5%	448,649
Oct-22	42	151,200	44,405	3.5%	493,054
Nov-22	0	-	0	3.5%	493,054
Dec-22	8	28,800	7,746	3.2%	500,800
Jan-23	0	-	0	3.2%	
Feb-23	0	-	0	3.2%	
Mar-23	0	-	0	3.2%	
Apr-23	116	417,000	129,223	3.7%	129,223
May-23	48	172,800	46,747	3.2%	175,970
Jun-23	58	208,800	65,362	3.8%	241,332
Jul-23	51	183,600	58,307	3.8%	299,639
Aug-23	74	266,400	83,587	3.8%	383,226
Sep-23	34	122,400	39,271	3.8%	422,497
Oct-23	9.5	34,200	11,124	3.8%	433,621
Nov-23	0	-	0	3.9%	
Dec-23	0	-	0	3.9%	
Jan-24	0	-	0	3.9%	
Feb-24	36	129,600	40,853	3.8%	40,853
Mar-24	25	90,000	29,724	4.0%	70,577
Apr-24	23	82,800	24,950	3.6%	95,527
May-24	36	129,600	40,472	3.7%	136,000
Jun-24	50	180,000	53,413	3.6%	189,412
Jul-24	81	291,600	90,582	3.7%	280,004

Basin Depths				
Tank #1	Tank #2	AB #1	Basin Gallons	# Dry
4.5	3.0	0.0	337,500	126,984
7.0	3.0	0.0	450,000	150,120
6.0	7.0	0.0	585,000	214,672
7.0	5.0	0.0	540,000	198,255
8.5	7.0	0.0	697,500	254,503
7.0	4.0	0.0	495,000	187,049
7.0	2.5	0.0	427,500	132,051
2.0	4.0	0.0	270,000	83,620
3.5	2.0	0.0	247,500	72,893
1.0	3.0	0.0	180,000	52,863
4.0	2.5	0.0	282,500	85,381
4.0	3.0	0.0	315,000	84,722
5.0	3.5	0.0	382,500	102,082
6.5	5.5	0.0	540,000	144,115
7.0	7.0	0.0	630,000	168,134
7.5	4.0	0.0	517,500	160,367
6.0	6.0	0.0	540,000	146,084
6.0	5.0	0.0	495,000	154,953
6.0	5.0	0.0	495,000	157,200
7.0	4.5	0.0	517,500	162,373
7.5	0.5	0.0	360,000	115,503
7.5	0.0	0.0	337,500	109,776
3.0	3.0	0.0	270,000	87,820
4.5	3.0	0.0	337,500	109,775
5.5	3.0	0.0	382,500	124,412
7.0	3.5	0.0	472,500	146,980
7.0	4.0	0.0	495,000	163,482
5.5	7.0	0.0	562,500	169,497
7.0	6.5	0.0	607,500	189,713
7.0	6.5	0.0	607,500	180,289
3.0	4.5	0.0	337,500	104,840

Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry
Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory
1.0	3.5	0.0	5,080	6,180	3,679,929	157,136	0.0051	263,800
4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513
9.0	10.0	0.0	5,870	5,760	3,937,478	190,464	0.0059	405,135
10.0	10.0	1.0	7,100	5,600	3,998,688	211,785	0.0064	410,021
2.0	10.0	1.0	6,290	6,830	3,856,572	207,778	0.0065	462,281
4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297
8.0	3.0	1.5	4,740	5,860	3,890,524	166,296	0.0052	288,348
1.5	1.0	0.5	5,490	5,420	3,866,119	166,789	0.0055	250,418
1.0	1.0	0.5	4,650	4,160	3,657,238	134,359	0.0044	207,251
0.5	0.5	0.5	4,590	4,390	3,639,476	136,286	0.0045	189,149
1.0	1.0	0.0	4,330	2,340	3,635,524	101,573	0.0034	166,954
1.5	1.5	0.0	4,510	4,270	3,653,286	133,756	0.0044	218,478
1.0	1.0	0.0	4,880	5,380	3,635,524	155,543	0.0051	257,625
2.0	2.0	0.0	6,080	5,570	3,671,048	177,882	0.0058	321,997
1.0	2.0	1.0	5,310	6,640	3,696,714	184,213	0.0060	352,347
1.0	1.0	1.0	6,200	6,170	3,678,952	189,771	0.0062	350,138
0.5	9.0	0.5	5,120	6,530	3,790,453	164,142	0.0058	330,226
1.5	4.0	0.5	6,020	6,440	3,719,405	193,254	0.0062	348,207
2.0	3.5	0.5	6,030	5,710	3,719,405	182,086	0.0059	339,287
1.0	1.0	0.5	5,600	4,910	3,657,238	160,285	0.0053	322,858
1.0	1.0	0.5	4,780	4,750	3,657,238	145,339	0.0048	260,842
0.5	0.5	0.5	4,530	5,660	3,639,476	154,650	0.0051	264,426
2.0	2.0	0.5	4,550	5,540	3,692,762	155,374	0.0050	243,194
1.0	3.0	0.0	5,730	6,450	3,671,048	186,455	0.0061	296,230
1.0	5.0	0.0	5,470	6,100	3,706,572	178,831	0.0058	303,243
0.5	1.0	0.0	5,120	5,530	3,626,643	161,061	0.0053	310,041
4.0	5.0	0.0	5,980	5,540	3,759,858	180,304	0.0056	343,786
1.5	0.5	0.5	5,770	7,270	3,657,238	198,869	0.0085	368,366
6.0	2.5	0.5	6,800	5,623	3,772,691	192,561	0.0081	382,274
3.0	6.0	1.5	6,690	7,100	3,625,000	219,954	0.0089	400,223
1.0	1.0	0.5	5,680	6,260	3,657,238	184,838	0.0061	289,679

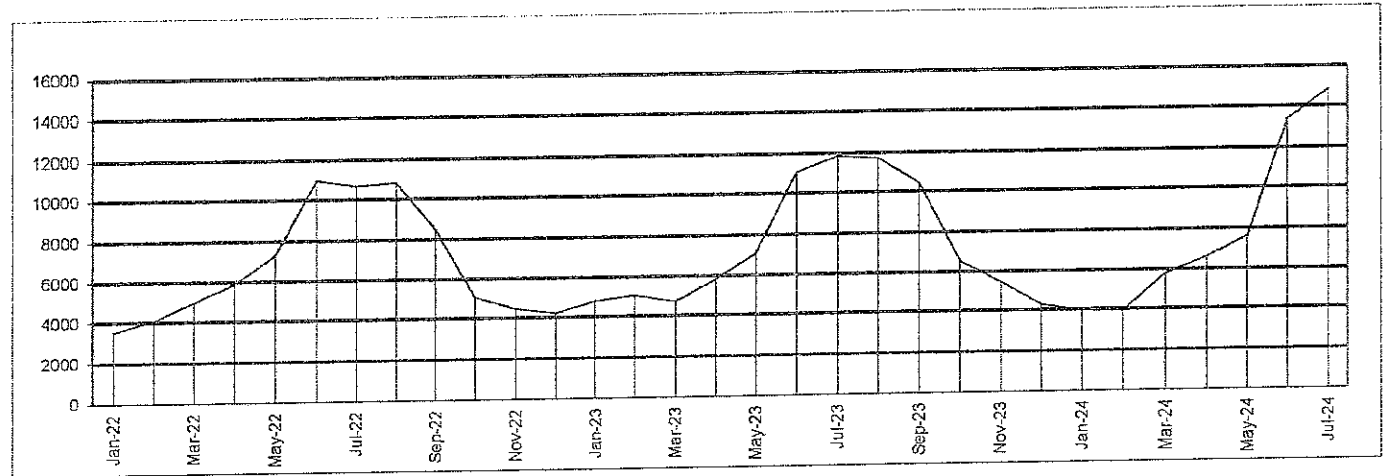
Accepted Septage	
Loads	Gallons
13	27,000
32	66,000
23	48,000
52	124,500
37	85,000
42	93,500
33	68,500
168	300,000
76	168,000
33	71,000
38	89,500
33	71,500
35	74,500
38	87,500
50	115,500
82	171,500
49	102,500
59	131,500
61	120,500
27	68,500
84	164,000
40	85,500
30	58,000
29	77,000
23	49,000
21	40,000
21	51,500
56	122,000
48	119,000
76	175,000
46	93,500



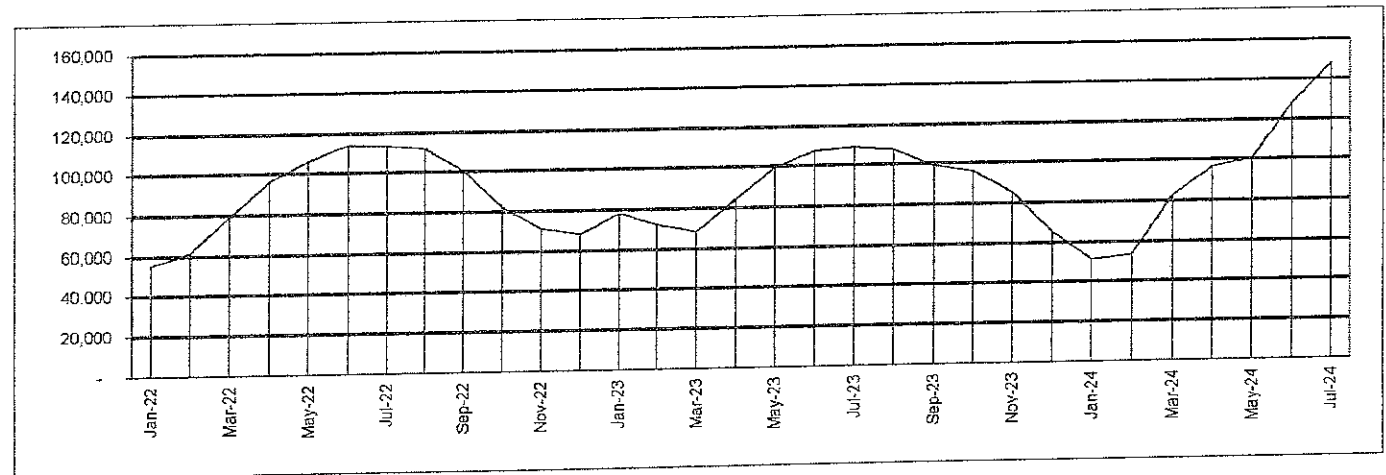
Electric Cost Kilowatts Used

Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160
May-22	7292	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470
Oct-22	5071	82,030
Nov-22	4451	71,240
Dec-22	4224	68,000
Jan-23	4809	77,980
Feb-23	5074	72,420
Mar-23	4730	68,320
Apr-23	5801	84,440
May-23	7128	99,300
Jun-23	11076	107,520
Jul-23	11845	109,070
Aug-23	11697	107,330
Sep-23	10438	99,140
Oct-23	6553	96,000
Nov-23	5474	85,570
Dec-23	4293	65,618
Jan-24	3972	51,236
Feb-24	3925	53,460
Mar-24	5786	82,859
Apr-24	6619	96,496
May-24	7563	100,390
Jun-24	13362	127,782
Jul-24	14832	147,621

Electric Cost



Kilowatts Used



Lake Ozark/Osage Beach WWTP
Phosphorus Removal

	Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L
Jan-22	4.8	1.9	Jan-23	4.9	2.7	Jan-24	5.3	3.3
Feb-22	4.6	1.7	Feb-23	5.9	3.0	Feb-24	5.3	2.8
Mar-22	4.9	2.9	Mar-23	5.1	2.9	Mar-24	4.5	3.5
Apr-22	4.7	2.9	Apr-23	6.0	3.2	Apr-24	5.5	2.1
May-22	4.4	2.8	May-23	5.6	1.9	May-24	5.2	3.6
Jun-22	4.4	3.7	Jun-23	6.2	2.8	Jun-24	4.5	1.4
Jul-22	6.2	2.8	Jul-23	7.2	0.6	Jul-24	4.0	0.8
Aug-22	3.5	1.0	Aug-23	4.7	0.6	Aug-24		
Sep-22	5.3	4.5	Sep-23	5.0	4.6	Sep-24		
Oct-22	6.1	6.8	Oct-23	7.0	6.6	Oct-24		
Nov-22	4.8	3.6	Nov-23	7.6	5.4	Nov-24		
Dec-22	4.8	2.8	Dec-23	5.9	3.6	Dec-24		
Avg.	4.9	3.1	Avg.	5.9	3.2	Avg.	4.9	2.5



MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
 Discharge Monitoring Report For Municipal Wastewater Treatment Plants

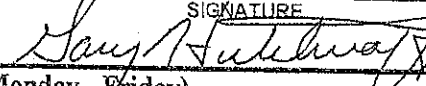
NAME OF FACILITY							LOCATION ADDRESS & CITY							COUNTY/REGION		
Lake of the Ozarks Regional WWTP #1							#3 Anderson Road							Miller/SWRO		
MONTH/YEAR		PERMIT NUMBER					OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Jul-24		MO-0103241					#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT							EFFLUENT							% Removal		
DATE	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L	
1	6.8			41.1	23.3	1.738	7.8			0.03	8.3	< 20	24.2			
2	6.9				23.7	1.705	7.7				8.2		24.2			
3	7.0	258	356		23.5	1.838	7.7	2.1	1.7		8.0		24.6	99.2	99.5	
4	6.9				23.2	1.955	7.8				8.1		24.2			
5	6.8				26	2.157	7.8				8.0		26.3			
6	6.9				25.1	2.292	7.8				8.0		25.8			
7	6.8				25.1	2.181	7.7				8.0		25.9			
8	6.8				23.7	2.016	7.7				7.8		24.6			
9	6.8				22.9	2.054	7.7				8.1		24.0			
10	6.6			22.3	23.6	2.222	7.8			0.17	8.2	< 20	24.1			
11	6.8				23.2	1.544	7.8				8.1		23.9			
12	6.9	308	304		21.8	1.849	7.8	1.3	1.2		8.3		24.5	99.6	99.6	
13	6.9				23.6	1.855	7.8				8.5		24.5			
14	7.0				23.9	2.091	7.7				8.4		24.9			
15	7.1				24.7	1.863	7.8				8.2	< 20	26.1			
16	6.9			35.2	24.3	1.676	7.9			0.12	8.1		26.1			
17	6.8				24.0	2.007	7.8				8.3		24.9			
18	7.0				23.4	1.687	7.8				8.5		24.9			
19	6.9	220	314		23.3	1.581	7.8	1.3	1.3		8.6		23.9	99.4	99.6	
20	6.9				22.8	1.770	7.8				8.8		22.9			
21	7.0				23.0	1.927	7.8				8.7		23.2			
22	6.8				23.3	1.743	7.7				8.6	< 20	23.7			
23	6.9				23.7	1.558	7.7				8.5		24.2			
24	6.8			28.9	24.0	1.599	7.7			0.05	8.5		24.4			
25	6.9				23.8	1.717	7.7				8.5		24.7			
26	6.9	188	236		24.2	1.761	7.8	1.3	1.9		8.4		25.0	99.3	99.2	
27	6.8				22.9	1.842	7.8				8.4		24.1			
28	6.9				23.6	2.082	7.7				8.3		24.5			
29	6.9				23.8	1.826	7.7				8.3	< 20	24.5			
30	6.8				24.8	1.690	7.7				8.2		25.8			
31	6.8			27.2	24.7	1.765	7.7			0.06	8.1		26.6			
Total						57.591										
Avg		244	303	30.9	23.8	1.858		1.5	1.5	0.09	8.3	< 20	24.7	99.4	99.5	
Min	6.6	188	236	22.3	21.8	1.544	7.7	1.3	1.2	0.05	7.8	< 20	22.9	99.2	99.2	
Max	7.1	308	356	41.1	26.0	2.292	7.9	2.1	1.9	0.17	8.8	10.0	26.6	99.6	99.6	

MONTHLY EFF MONITORING				QUARTERLY EFF MONITORING				MONTHLY INF MONITORING		
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium mg/L	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10	0.763	0.970	6.48	< 2.0	< 0.0020	< 0.0400	302	4.03	33.1	< 0.030
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	0.763	0.97	6.48	< 2.0	< 0.0020	< 0.0400	302	4.03	33.1	< 0.030
Avg	0.763	0.97	6.48	< 2.0	< 0.0020	< 0.0400	302	4.03	33.1	< 0.030
Min	0.763	0.97	6.48	< 2.0	< 0.0020	< 0.0400	302	4.03	33.1	< 0.030
Max	0.763	0.97	6.48	< 2.0	< 0.0020	< 0.0400	302	4.03	33.1	< 0.030

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVATED SLUDGE" PROCESSES

DATE Jul-24	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				#Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1		0.9	6,770	840	24.1	1	7,300	870	24.1	71	0.1	7:30
2		0.8	6,620	840	24.3	0.8	7,410	900	24.2	73	0	7:30
3		0.9	6,940	840	24.8	0.8	7,590	890	24.7	78	0.6	7:30
4		0.9	6,770	860	24.4	0.8	7,430	900	24.3	75	0.2	7:30
5		0.7	6,700	820	27.3	0.7	6,650	840	26.1	77	0.1	7:30
6		0.7	6,760	830	26.4	0.7	7,010	860	25.3	75	0	7:30
7		0.7	6,870	870	25.6	0.7	6,880	870	25.3	76	0	7:30
8		0.7	6,620	860	24.1	0.7	7,040	900	24.1	70	0.6	7:30
9		1.1	6,810	900	23.4	1.1	6,820	900	23.7	69	0.8	7:30
10		1.9	7,400	860	23.7	2.0	6,920	860	24.0	68	0.7	7:30
11		2.0	6,890	850	23.7	2.0	7,030	860	23.6	69	0	7:30
12		1.3	6,750	870	24.5	1.4	6,840	870	24.4	72	0.3	7:30
13		1.5	7,110	870	24.2	1.2	6,810	870	24.3	73	0	7:30
14		1.0	6,890	850	24.6	1.3	6,580	850	24.7	74	0.2	7:30
15	13,210	0.9	7,100	870	26.1	0.7	6,410	820	25.9	78	0	7:30
16		1.1	6,960	870	26.0	1.3	6,400	830	26.0	81	0	7:30
17	10,208	0.8	7,110	860	24.8	1.0	6,650	840	25.0	74	0.8	7:30
18	9,367	2.0	6,530	840	24.6	2.0	7,300	880	24.7	70	0	7:30
19	5,254	1.7	6,920	850	23.7	1.4	7,140	890	23.6	64	0	7:30
20		2.3	6,730	860	22.7	2.3	6,670	870	22.9	63	0	7:30
21		1.7	6,110	840	23.1	1.4	6,650	880	23.3	68	0.1	7:30
22		1.0	7,280	870	23.6	1.2	7,060	850	23.6	68	0	7:30
23	9,127	1.3	6,920	810	23.9	1.3	6,920	860	23.8	68	0	7:30
24	8,887	1.2	6,420	820	24.6	1.2	6,640	850	24.4	70	0	7:30
25	10,508	1.1	6,830	810	24.6	1.3	7,230	840	24.6	69	0	7:30
26	3,843	1.2	6,570	750	24.5	1.2	6,640	810	24.6	72	0	7:30
27		1.3	6,090	750	24.1	1.3	5,810	790	24.2	71	0	7:30
28		0.9	6,460	720	24.2	1.1	6,500	750	24.2	73	0	7:30
29		0.8	6,290	720	24.7	1.1	6,240	750	24.7	78	0	7:30
30	6,845	1.1	6,310	720	25.7	1.1	6,330	760	25.8	77	0	7:30
31	13,331	1.3	5,860	650	26.3	1.0	6,260	660	26.4	79	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hombach	SIGNATURE 	PHONE # (573)365-0455	DATE 8/6/2024
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 8/6/2024

*Required Daily (Monday - Friday)

**Required 1/week

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	001M
Monitoring Period	
7/1/24	7/31/24
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	2.292	1.858	Mgal/d
Mon. Location.: End of Pipe	*****	*****	*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured							
Frequency: Daily							
BOD, 5-day, 20 deg. C	*****	2.1	1.5	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****	Weekly Avg.:45	Monthly Avg.:30		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	1.9	1.5	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****	Weekly Avg.:45	Monthly Avg.:30		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Escherichia coli (E. coli)	*****	<20	10.0	#/100mL	*****	*****	*****
Mon. Location.: End of Pipe	*****	7 Day Geo.:630	30 Day Geo. Mean: 126		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
Phosphorus, total (as P)	0.763	*****	0.763	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, Kjeldahl, total (as N)	0.970	*****	0.970	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	6.48	*****	6.48	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrogen, ammonia total (as	0.17	*****	0.09	mg/L	*****	*****	*****

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

N)							
Mon. Location.: End of Pipe	Daily Max.:12.1	*****	Monthly Avg.:1.5		*****	*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
pH	7.7	*****	7.9	SU	*****	*****	*****
Mon. Location.: End of Pipe	Minimum:6.0	*****	Maximum:9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	99.2	%	*****	*****	*****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg.		*****	*****	
Sample Type: Calculated			Min.:85				
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	99.2	%	*****	*****	*****
Mon. Location.: End of Pipe	*****	*****	Monthly Avg.		*****	*****	
Sample Type: Calculated			Min.:85				
Frequency: Monthly							
Comments:							

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	**** *****,*****	***** *****,*****	244 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Total Suspended Solids (TSS) Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	***** *****,*****	***** *****,*****	303 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Nitrogen, ammonia total (as N) Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	41.1 Daily Max.:Monitoring Required	***** *****,*****	30.9 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Phosphorus, total (as P) Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	4.03 Daily Max.:Monitoring Required	***** *****,*****	4.03 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Nitrogen, Kjeldahl, total (as N) Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	33.1 Daily Max.:Monitoring Required	***** *****,*****	33.1 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Nitrite plus nitrate total (as N) Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly	<0.030 Daily Max.:Monitoring Required	***** *****,*****	<0.030 Monthly Avg.:Monitoring Required	mg/L	***** *****,*****	***** *****,*****	*****
Comments:							

Lake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 176
Jefferson City, MO, 65102

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature Gary Hutchcraft	Submission Date August 6, 2024	User Phone Number (573)365-0455
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Comments:

Leake of the Ozarks Regional
WWTP 1
#3 Anderson Road
LAKE OZARK, MO, Miller

State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
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eSignature Gary Hutchcraft	Submission Date August 6, 2024	User Phone Number (573)365-0455
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FOR JULY 2024

Use following abbreviations: R-rain, S-snow, O-overcast, C-clear, PC-partly cloudy

Date 8/6/2024



2024 Regulatory Compliance Report Mark Mahler, Director of Safety & Regulatory Compliance

Alliance tracks new and proposed legislative and regulatory issues on an ongoing basis on behalf of its clients. This quarterly report identifies some of the most impactful issues at the Federal and State levels.

3rd Quarter 2024, Missouri

Cybersecurity threats on the rise:

The Water and Wastewater Sector depends on the digital world, leveraging technology for monitoring, operations and communicating with customers. Any disruption to a drinking water or wastewater system digital ecosystem could have significant impacts to the community it serves as well as to other critical infrastructure. Where Alliance Water Resources has access to computer systems, such as SCADA, we are providing the following services.

- Maintaining firewalls, updating and patching as needed.
- Running vulnerability assessments.
- Monitoring EDR (endpoint detection and response) software.

CISA and EPA have teamed up and provide excellent tools and resources such as a Water System Toolkit and Cyber Vulnerability Scanning for water systems. These can be found at cisa.gov/water along with other helpful information.

MDNR and EPA recently sent out an ALERT about fraudulent EPA Notice of Violation letters and attempts to collect a payment of \$25,000 within three (3) business days.

Wastewater Facility BOD Compliance Comparison Project:

An environmental group, The Nature Conservancy, distributes analyses that compare neighboring facilities' wastewater BOD levels, implying that a plant is not being operated or is not performing as well as others and needs to be corrected. Because each plant is different and designed to treat specific contaminants, this report is misleading. The best measure for a plant's performance is its ability to meet its NPDES permit limits.



Regulatory Compliance Report

Mark Mahler, Director of Safety & Regulatory Compliance

Alliance tracks new and proposed legislative and regulatory issues on an ongoing basis on behalf of its clients. This quarterly report identifies some of the most impactful issues at the Federal and State levels.

3rd Quarter 2024, Federal

FIRST-EVER NATIONAL DRINKING WATER STANDARDS FOR PFAS

EPA has finalized a national drinking water standard for per- and polyfluoroalkyl substances (PFAS) with the following limits and time frames.

Chemical	Max Containment Level Goal (MCLG)	Max Containment Level (MCL)	Timeframe* See Below
PFOA	0	4.0 ppt	
PFOS	0	4.0 ppt	
PFNA	10 ppt	10 ppt	
PFHxS	10 ppt	10 ppt	
HFPO-DA	10 ppt	10 ppt	
Mixture of 2 or more: PFNA, PFHxS, HFPO- DA, AND PFBS	Hazard Index of 1	Hazard Index of 1	
Maximum Containment Level Goal (MCLG): The level of containment in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.			

*It appears that drinking water systems get 3 years to determine if they have PFAS to remove from their system, and then two additional years to install any needed capital improvements.

The AWWA and AMWA are appealing EPA's implementation of these rules because they believe:

- EPA did not rely on the best available science.
- EPA did not rely on the most recent PFAS occurrence data.
- EPA impermissibly used novel approaches as the basis for certain portions of the rule.
- EPA finalized this rule without following the process mandated by Congress.
- EPA did not allow an adequate opportunity for public comment.
- EPA did not adequately address water system concerns, including the impact of the rule on low- and fixed-income ratepayers.
- EPA has significantly underestimated the costs of this rule and the adverse impact that it will have on individual water users.

We will continue to monitor and give updates as they become available.