

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
December 19, 2023 @ 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, Jeana Woods
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Member at Large, Gary Hamner
Assistant City Administrator, Acting Public Works Manager, Mike Welty

3. PUBLIC COMMENT

4. MINUTES

Regular Meeting: November 21, 2023 2-3

5. REPORTS

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

6. ALLIANCE REPORT OF OPERATIONS 15-32

7. APPROVAL OF FLOW CHARTS

8. OLD BUSINESS

A. Board update.

9. NEW BUSINESS

- A. Review and possible approval on the bids that will be brought in person by Alliance for the RAS Pump Replacement Project. **Pg. 33**
- B. Discussion and possible action on the Clarifier Paint project for more time and material.

10. ADDITIONAL DISCUSSION ITEMS

11. ADJOURNMENT

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – November 21st, 2023

CALL TO ORDER:

Mayor Harmison called the meeting to order at 4:00 pm on Tuesday, November 21st, 2023, 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 – Present
 Resident Member, Mr. Gary Hamner – Present
 Assistant City Administrator, Acting Public Works Manager, Mike Welty - Present

MINUTES:

Alderman, Pat Thompson, motioned to approve the corrected meeting minutes from October 17th 2023. The motion was seconded by City Administrator, Jeana Woods and passed unanimously.

REPORTS:

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

A motion was made by Alderman, Pat Thompson to approve the Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded by Assistant City Administrator, Acting Public Works Manager, Mike Welty and passed unanimously. Alderman, Pat Thompson motioned to approve the Income & Expense Summary. Motion was seconded by City Administrator, Jeana Woods and was passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for October was 1.017 mgd. We had 3.2 inches of precipitation measured for October at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.5 mg/l and TSS of 2.5 mg/l respectively for October which represents a 99.0 + % or better removal.

The MLSS average for both aeration basins for October was 4,680 mg/l. The total dry weight sludge inventory for October totaled 264,426 pounds. There were 9.5 loads of biosolids or 34,200 gallons land applied for October. We received 40 loads of septage or 85,500 gallons for October.

APPROVAL OF FLOW CHART:

Mayor Dennis Newberry motioned to approve the October flow chart. The motion was seconded by Alderman, Pat Thompson and was unanimously approved.

OLD BUSINESS:

- A. Board Representative Update. All is running as expected.

NEW BUSINESS:

- A. Review and action regarding the disposal of records list for 2023. Motion for approval was made by Alderman, Kevin Rucker. His motion was seconded by Mayor, Dennis Newberry and was passed unanimously.
- B. Review and action regarding the bids for the clarifier pain project. Per Alliance recommendation a motion to approve the bid from Hogans Inc in the amount of \$28,775.00 was made by Public Works Director, Matt Michalik. His motion was seconded by Assistant City Administrator, Acting Public Works Manager, Mike Welty and was passed unanimously.
- C. JSP meeting to be held on 12.04.2023. A motion was made by Alderman, Pat Thompson to approve the meeting to be held on 12.04.2023. Her motion was seconded by City Administrator, Jeana Woods and was passed unanimously.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss, a motion was made by Mayor, Dennis Newberry to adjourn. City Administrator, Harrison Fry. The meeting was adjourned at 4:31 pm.

Approved:

Michael Harmison, Mayor

Robin Craig, Clerk

JOINT SEWER BOARD
BILL LIST
DECEMBER 19, 2023

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	838.50
OPERATING FUND BILLS TO BE PAID:	\$	44,498.69
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-

TOTAL \$ 45,337.19

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Paid To:	Description:	Amount:
4020	Pace Analytical Serv.	Lab Testing for Permit Renewal	\$ 838.50
			\$ -
			\$ -
TOTAL			\$ 838.50

OPERATING FUND BILLS TO BE PAID:

Account	Paid To:	Description:	Amount:
4000	Equipment Replacement Fund	Payment into ER Fund	\$ 5,000.00
4020	CED	Freight for breaker for pista grit	\$ 17.24
4020	Haynes Equipment Co.	Wired new style ducking skimmer	\$ 1,500.00
4020	JCI Industries, Inc.	Annual Hoist Inspection for UV	\$ 1,750.00
4020	M/C Calco	Relays for Lift Station	\$ 35.34
4020	M/C QuickBooks	Accounting Software	\$ 30.00
4020	Menards	Flex Conduit for Clarifier #2	\$ 32.30
4020	Wallis Lubricant	Diesel Fuel for Generator	\$ 1,066.72
4170	Alliance Water Resources Inc	December	\$ 29,466.00
4175	Ameren MO	11673321	\$ 5,392.60
4175	Ameren MO	98041275	\$ 81.80
4176	AT&T	Nov	\$ 42.85
4176	Republic	December	\$ 83.84
TOTAL			\$ 44,498.69

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			\$ -
TOTAL			\$ -

Haynes Equipment Co.
15725 Pflumm Rd.
Olathe, KS 66062
(913) 782-4962
Fax: 913-782-5894
www.haynesequip.com

Invoice

Invoice Number	28333H
Invoice Date	12/11/2023
Terms	Net 30

RECEIVED
DEC 11 2023
RECEIVED

Sold To: Joint Sewer Board PO Box 1985 Lake Ozark, MO 65049
--

Ship To

PO Number		Job Number
-----------	--	------------

Rep	Job Name
ZE	

Item	Description	Rate	Qty	Amount
Service - KC	Installation of reversing contactor	1,500.00	1	1,500.00
WIRED UP NEWER STYLE DUCKING SKIMMER TROUGH MECHANISM ON CLARIFIER #2 GL Acct#: <u>4020</u> Signature: <u>[Signature]</u> Date: <u>12/11/23</u>				

Past Due Invoices Are Subject To Late Fee's
Of 1 1/2% Per Month
Terms: Net 30 Days

Memo:

Net Invoice:	\$1,500.00
Sales Tax: (0.0%)	\$0.00
Invoice Total:	\$1,500.00

Remit To:

JCI Industries, Inc.
PO Box 411114
Kansas City, MO 64141
816-525-3320



INVOICE

INVOICE	
8261349	
Invoice Date	Page
11/29/2023	1 of 1
ORDER NUMBER	
1237173	

Branch 06

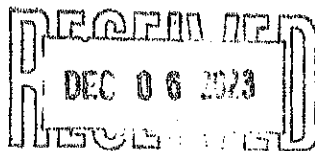
JEFFERSON CITY

Bill To:

LAKE OZARK/OSAGE BEACH JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049

Ship To:

ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049



Customer ID: 400263

PO Number		Term Description		Net Due Date	
GARY HUTCHCRAFT-20		Net 30		12/29/2023	
Order Date	Pick Ticket No	Primary Salesrep Name		Order Taker	
11/20/2023 10:35:33	3249308	Ben Reinkemeyer JI		ACHUNING	
Quantities			Item ID	Pricing UOM	Unit Price
Ordered	Shipped	Remaining	Item Description	Unit Price	Extended Price
1.00	1.00	0.00	EA	EA	1,750.00
			HOIST INSPECT 11.20.23		1,750.00
			HOIST INSPECTION	1.0000	

Total Lines: 1

SUB-TOTAL: 1,750.00

TAX: 0.00

AMOUNT DUE: 1,750.00

Carrier: NOT APPLICABLE

Tracking #:

Merchandise cannot be returned without permission. Claims for shortages or errors must be made in writing within thirty (30) days after receipt of goods. All approved returns must include a JCI return authorization number and may be subject to a restocking fee up to 25%.

Please Note: Effective 9/18/2023 our accounting@jciind.com email has changed. Please use:
jciaccounting@otcindustrial.com

ANNUAL OVERHEAD HOIST INSPECTION FOR
GL Acct#: 4020 UV HOIST + TOOL ROOM HOIST
Signature: [Signature]
Date: 12/6/23

JCI Industries, Inc. acceptance of buyer's order is conditioned upon buyer's assent to the terms and conditions set forth on
<http://www.jciind.com/tandc>. Any additional or contrary terms are hereby rejected.

ORIGINAL

12.11.211. 11/19/2012

Wallis Lubricant, LLC

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

888-677-8809 telephone

Invoice

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

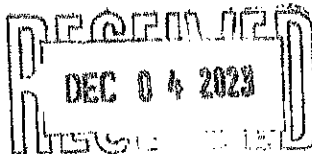
Invoice Number: 79973L-IN
 Invoice Date: 11/28/2023
 Order Number: 0079973
 Order Date: 11/27/2023
 Salesperson: Lake Linn
 Customer Number: 50-0410822

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
#2LSDYEDDSL GAL	GAL	350.00	350.00	0.00	3.0380	1,062.80
#2 ULTRA L.S. DIESEL (DYED) NA1993, Diesel Fuel, 3, PGIII						
Fuel Tax Recap						
Federal UST Fee-Diesel DYED					0.00100	0.35
Federal Oil Spill Fee-Diesel D					0.00214	0.75
Federal Superfund-Diesel DYED					0.00391	1.37
Inspection Fees-Diesel DYED					0.00470	1.65

DIESEL FUEL FOR THE STANDBY/EMERGENCY
 GENERATOR

GL Acct#:

Signature:

Date:

4020

Gary Hultmark

12/4/23

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

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Net Invoice: 1,066.72
 Less Discount: 0.00
 Freight: 0.00
 Sales Tax: 0.00
 Invoice Total: 1,066.72
 Less Deposit: 0.00
 Invoice Balance: 1,066.72



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

FOCUSED ENERGY. For life.

Account Number 4880005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD.,
LAKE OZARK, MO 65049

Current Total for Statement 12/07/2023

Total Electric Charges \$5,392.80

Total Amount Due \$5,392.80

PAID
DEC 07 2023
RECEIVED

AMOUNT DUE \$5,392.60

Due Date 01/02/2024

Amount After Due Date \$5,446.63

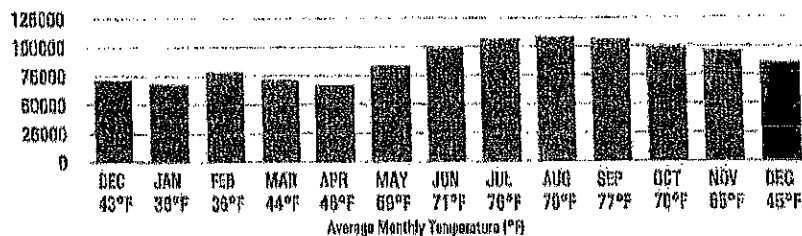
Previous Statement \$6,183.64

Total Payments \$6,183.64

Payment Received: Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using 2.8% more than the same time period last year.

2022

1,035,200 kWh

2023

1,064,320 kWh

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#: 4/75

Signature: Gary Stutts

Date: 12/7/23

See next page for service details.

Keep this portion for your records.

Page 1 of 4



Check if you have address changes on back.

Please return this portion with your payment:

Amount Due	Due Date
\$5,392.60	01/02/2024
Delinquent Amount After Due Date	Account Number
\$5,446.63	4880005832

Amount Enclosed \$

>004854 2252424 0006 098139 302

ALLIANCE WATER RESOURCES INC
PO BOX 1088
LAKE OZARK, MO 65049-1088

AMEREN MISSOURI
PO BOX 88088
CHICAGO IL 60680-1088

20600000 0045800058302 000005372600 000005372600



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 ☐ Customer Service: 1.877.426.3736

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Account Service Details

Service from: 11/02/2023 - 12/05/2023 (33 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11873921	11/02 - 12/05	33	Total kWh	Actual	84980.0000	83085.0000	631.0000	180.0000	84980.0000
11873921	11/02 - 12/05	33	Peak kW	Actual	127.8000	0.0000	0.7800	180.0000	127.8000

Usage Summary

Total kWh	84980.0000	Non-Summer kWh	84980.0000
Peak kW	127.8000	Billing Demand	127.8000
Total Billing Demand	127.8000	October Winter Base kW	178.6000
Winter Base Demand	127.8000	Base kWh Ratio	1.0000
Base kWh (HUD)	84980.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@	\$ 0.04080000	\$0.00
Winter Demand Charge	127.80	kW	@	\$ 2.30000000	\$293.94
Base Energy Charge / Hours Used	19,170.00	kWh	@	\$ 0.06880000	\$1,338.07
Base Energy Charge / Hours Used	26,580.00	kWh	@	\$ 0.06180000	\$1,326.56
Base Energy Charge / Hours Used	40,230.00	kWh	@	\$ 0.04090000	\$1,645.41
Customer Charge					\$110.55
Fuel Adjustment Charge	84,980.00	kWh	@	\$ 0.00308000	\$262.53
Energy Efficiency Investment Charge	84,980.00	kWh	@	\$ 0.00457100	\$388.35
Renewable Energy Adjustment	84,980.00	kWh	@	\$ 0.00032000	\$27.19
Total Service Amount					\$5,382.80
Total Electric Charges					\$5,382.80

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

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 Address _____
 City, State, Zip _____
 Phone Number _____

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866.268.3729



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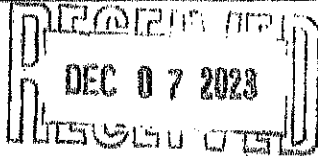
FOCUSED ENERGY. For life.

Account Number 6680005920
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65049

Current Detail for Statement 12/07/2023

Total Electric Charges \$81.80

Total Amount Due \$81.80



AMOUNT DUE \$81.80

Due Date 01/02/2024

Amount After Due Date \$82.82

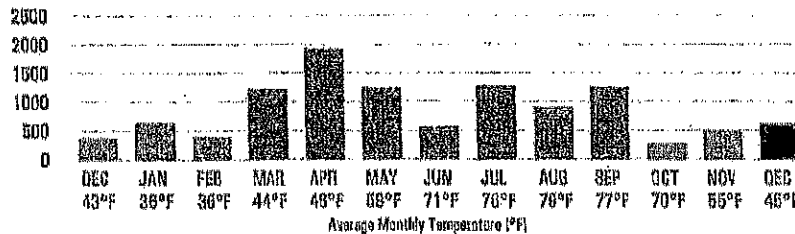
Previous Statement \$69.28

Total Payments \$69.28

Payment Received: Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year you're using **38.5% less** than the same time period last year.

2022 17,500 kWh

2023 10,770 kWh

13973 04852 2252424 00006 072137 10216002

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: 12/7/23



» See next page for service details.

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Page 1 of 4



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Please return this portion with your payment.

Amount Due	Due Date
\$81.80	January 02, 2024
Delinquent Amount After Due Date	Account Number
\$82.82	6680005920

Amount Enclosed \$

>0004852 2252424 00006 072137 102

ALLIANCE WATER RESOURCES INC
 PO BOX 1086
 LAKE OZARK, MO 65049-1086

AMEREN MISSOURI
 PO BOX 88088
 CHICAGO IL 60680-1088

10633000 0055800057200 000000001400 000000001800



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Electric Service Details Service from 11/02/2023 - 12/09/2023 (33 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041276	11/02 - 12/09	33	Total kWh	Actual	26447.0000	26386.0000	61.0000	10.0000	610.0000
00041270	11/02 - 12/09	33	Peak kW	Actual	6.2300	0.0000	6.2300	10.0000	62.3000

Usage Summary

Total kWh	610.0000	Non-Summer kWh	610.0000
Winter Base kWh	1000.0000	Current Base kWh	610.0000
Winter Cur Base kWh	610.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	610.00	kWh	@ \$ 0.08840000	\$54.93
Seasonal Energy Charge	0.00	kWh	@ \$ 0.06180000	\$0.00
Customer Charge				\$23.07
Fuel Adjustment Charge	610.00	kWh	@ \$ 0.00300000	\$1.88
Energy Efficiency Investment Charge	610.00	kWh	@ \$ 0.00348000	\$2.12
Renewable Energy Adjustment	610.00	kWh	@ \$ 0.00032000	\$0.20
Total Service Amount				\$81.80
Total Electric Charges				\$81.80

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
November 27, 2023	\$69.26

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

Page 2 of 4

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 City, State, Zip _____
 Phone Number _____

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

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget	2023 Actual as of 11/30/2023	2023 November Revenue	Percent YTD
3020	Osage Beach	465,202.63	460,708.70	481,940.00	450,589.33	40,320.42	93%
3010	Lake Ozark	84,797.35	91,794.26	98,710.00	79,369.00	8,067.08	80%
3030	Misc.	22,000.00	1,094.92	0.00	234.08	0.00	0%
3100	Interest	2,700.22	2,462.35	2,500.00	5,491.33	672.13	220%
3060	Waste Haulers' Fee	60,520.00	49,490.00	56,000.00	59,310.00	3,250.00	106%
Total Operating Fund		635,220.20	605,550.23	639,150.00	594,993.74	52,309.63	93%
E/R Fund Income		5,508.47	3,588.63	4,000.00	15,011.38	3,012.45	375%
TOTAL INCOME		640,728.67	609,138.86	643,150.00	610,005.12	55,322.08	95%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
11/30/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget Original	2023 Budget Amended	2023 Actual as of 11/30/2023	2023 November Expenses	Percent YTD
4000	Equipment Replace Fund	143,809.00	55,008.00	60,000.00	60,000.00	56,000.00	5,000.00	92%
4020	*Maintenance & Repair	104,853.81	60,030.11	93,500.00	118,000.00	80,233.52	2,521.85	88%
4140	Insurance	21,493.00	22,088.00	23,000.00	23,000.00	22,791.00	0.00	99%
4150	Vehicle Repair/Main	11,069.99	5,999.68	8,000.00	8,000.00	3,255.47	0.00	41%
4170	Contract Management	308,840.00	331,080.00	360,000.00	360,000.00	324,128.00	28,488.00	90%
4176	Electric	82,227.41	79,890.16	81,000.00	88,000.00	83,073.40	6,252.82	94%
4176	Utilities Misc.	3,528.17	3,694.18	5,000.00	5,000.00	4,453.01	996.83	89%
4190	Bank Charges	0.00	12.00	0.00	0.00	3.00	0.00	0%
4200	Audit	2,800.00	2,700.00	2,800.00	2,800.00	2,800.00	0.00	100%
4240	Capital Purchases	389.99	0.00	0.00	0.00	0.00	0.00	0%
	Totals	878,450.37	560,502.03	633,300.00	664,800.00	575,735.40	44,137.30	87%
	**E/R Expenses	202,161.70	11,093.28	103,000.00	120,000.00	112,613.67	0.00	94%
	TOTAL EXPENSES	880,612.07	571,595.29	736,300.00	784,800.00	688,349.07	44,137.30	88%

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500	X
Regular Maintenance	20,000	X
UV Bulbs, Quartz Sleeves, Misc	10,000	X
Painting RAS basement piping	30,000	X
Rock for road	3,000	Fall
Sandblasting & paint Clarifier #1	30,000	Fall

93,500.00

DETAIL: Equipr DETAIL: Equipment & Replacement

Replace wooden	Replace wooden doors w/fibergla	3,000	If needed
Replace flow met	Replace flow meter for the effluer	25,000	X
*Replace aerator	*Replace aerator gear box - new	75,000	X

103,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
11/30/2023

Beginning Balance	355,643.19
Income - Osage Beach	40,320.42
Income - Lake Ozark	8,067.08
Income - Other	-
Income - Waste Haulers' Fees	3,250.00
Interest - Checking	26.17
Income - CD Interest	645.96
Transfers From E/R Fund	-
Transfers To E/R Fund	(5,000.00)
Expenses	(39,556.70)
Ending Fund Balance	363,396.12
Central Bank - NOW Acct.	136,556.53
	-
CD First Bank of the Lake, 2/20/25 #8432	110,637.03
CD First Bank of the Lake, 1/22/25 #8433	117,255.40
	-
Outstanding Checks:	(1,052.84)
	363,396.12

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
11/30/2023

Beginning Balance	475,625.87
Interest - Checking	133.73
Income - CD Interest	2,878.72
Transfers From Operating Fund	5,000.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	483,638.32
First Bank of the Lake - Money Mkt.	98,717.38
CD First Bank of the Lake, 1/31/24 #8430	114,920.94
CD First Bank of the Lake, 5/07/24 #8434	270,000.00
	-
	-
Outstanding Checks:	-
	483,638.32



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 November 2023

Submitted by Alliance Water Resources, Inc. for the

December 2023

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	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	1.9	2.1	N/A	0.0		0.03	< 2.0
Peak Day	2.0	2.6	8.0	0.0		0.05	< 2.0
Percent Removal	99.2	99.4	N/A	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126		2.5	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 0.889 MGD or 30% 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 50466 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

434,621 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 270,000 gallons with a level of 3.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We shut down the UV system on November 1st.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- We started draining clarifier #3 on the 7th of November and finally got it finished with the 3" trash pump on the 5th of December. We installed a small sump pump to keep up with any rainwater that we might get before they start the paint project that was approved at the last Board meeting.
- One of the breakers in the pista grit control panel went down on us on the 15th of November. We ordered a replacement and got it in on the 22nd, installed it and got it back online that afternoon.
- Haynes Equipment came in on the 21st of November and wired up the ducking skimmer arm mechanism on clarifier #2 to work on automatic.

SAFETY

- We conducted our monthly Safety Meeting on Hazard Communication & Hazcom: Safety Data Sheet Sections on the 14th of November.

REGULATORY AGENCY, INSPECTION AND REPORT

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

MISCELLANEOUS AND RECOMMENDATIONS

- We opened the Bids for the RAS Pump Replacement Project on the 4th of December, and we had three bidders out of six invites. The first was from Enviro-Line Co. at \$196,250.00, Zeller Technologies at \$188,600.00 and JCI Industries at \$188,500.00. (see attached bid tabulation sheet)

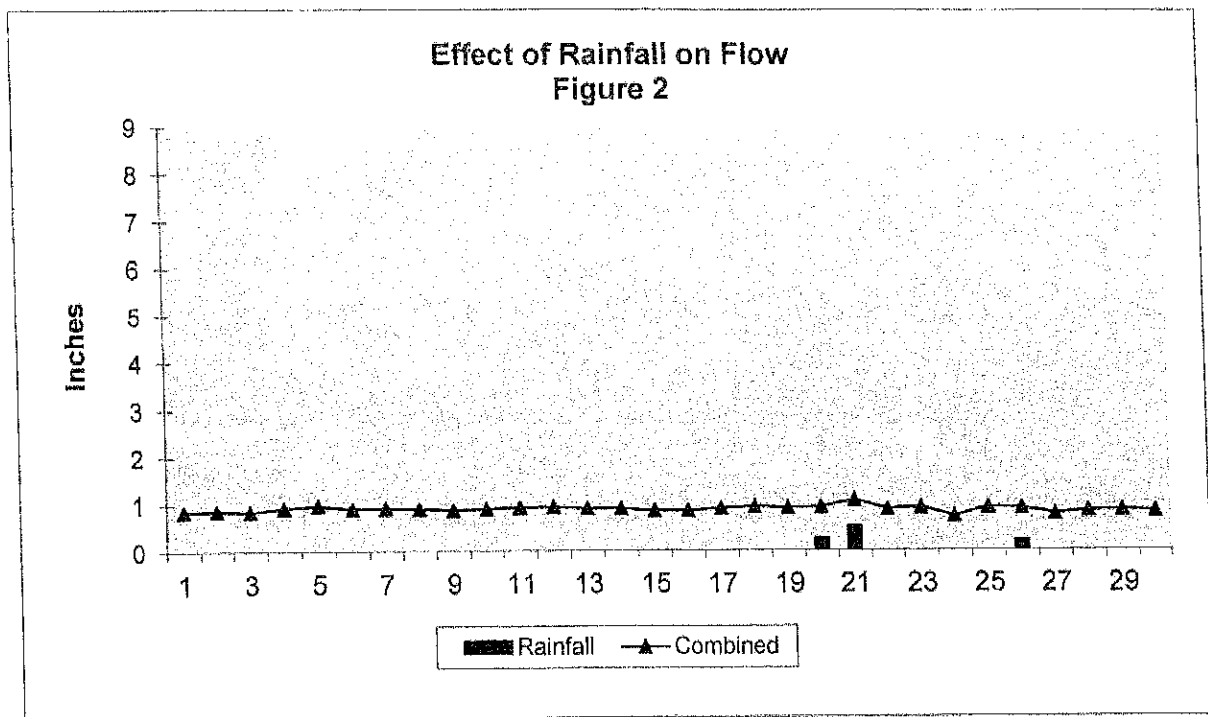
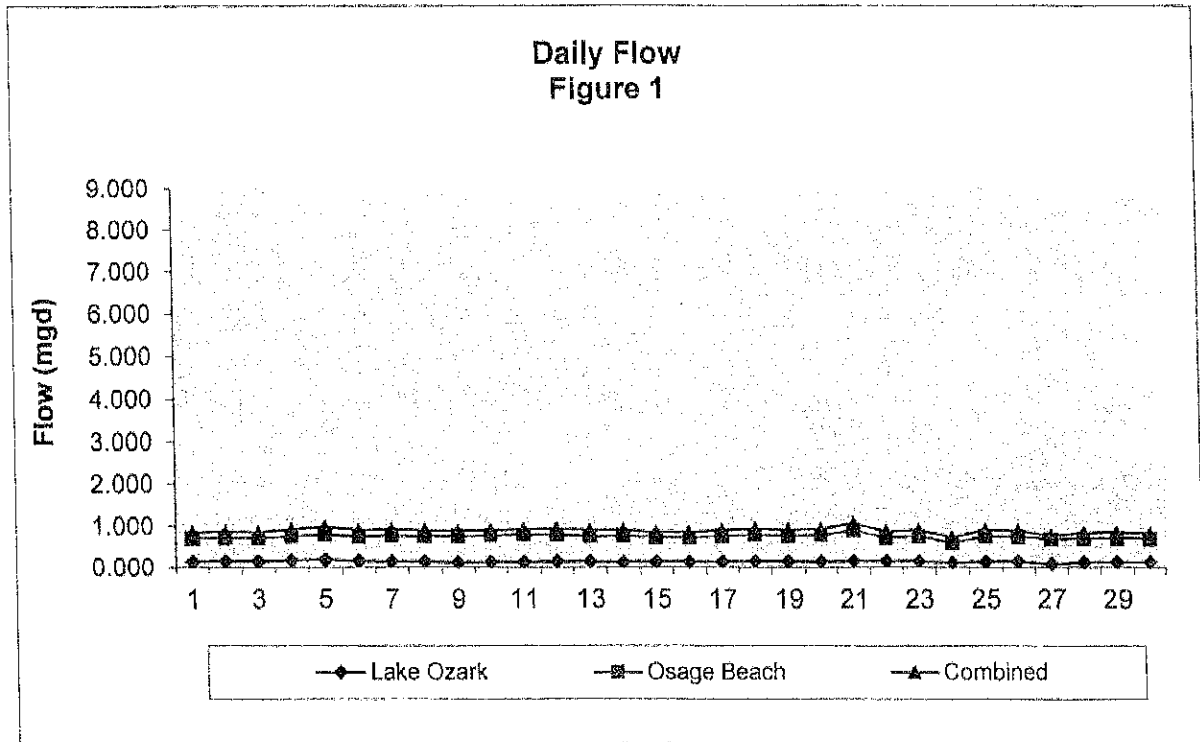


TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2021</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695,000	85%	7,390,000	15%	49,085,000	100%
July	6.9	49,378,000	85%	9,000,000	15%	58,378,000	100%
August	1.8	41,691,000	85%	7,211,000	15%	48,902,000	100%
September	3.1	36,185,000	85%	6,306,000	15%	42,491,000	100%
October	6.0	32,925,000	85%	5,987,000	15%	38,912,000	100%
November	0.8	25,192,000	83%	5,025,000	17%	30,217,000	100%
December	2.3	25,041,000	82%	5,317,000	18%	30,358,000	100%

52.2	403,341,000	84%	74,860,000	16%	478,201,000	100%
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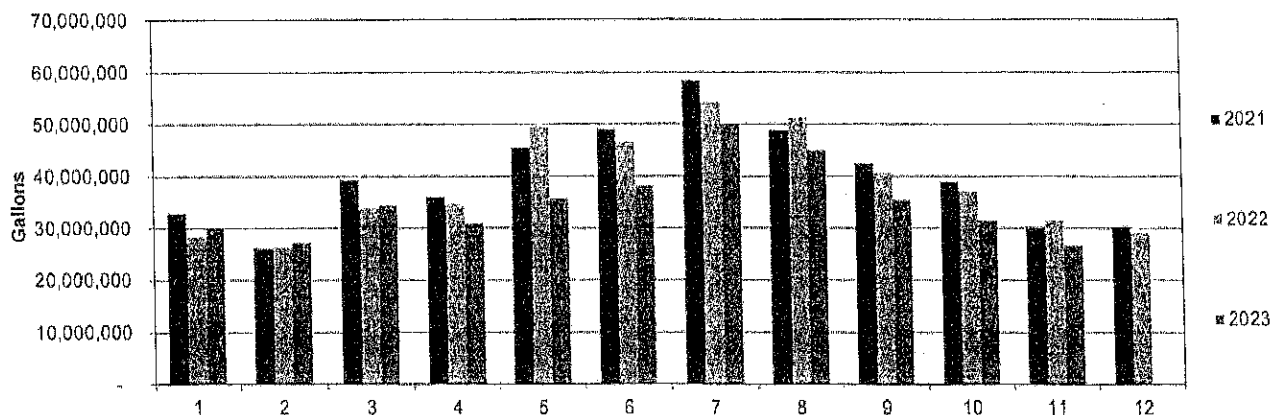
<u>2022</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	1.7	23,599,000	83%	4,824,000	17%	28,423,000	100%
February	3.8	21,853,000	83%	4,610,000	17%	26,463,000	100%
March	5.2	28,266,000	83%	5,657,000	17%	33,923,000	100%
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	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%
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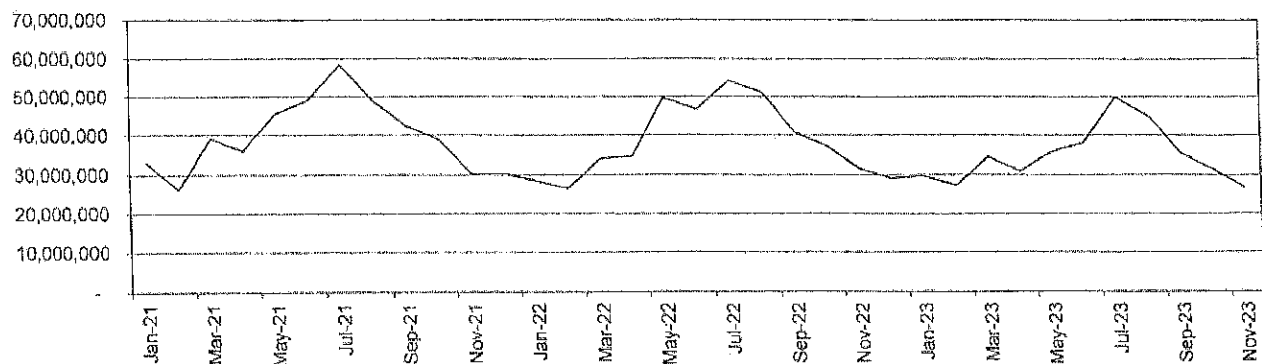
<u>2023</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	25,972,000	87%	3,812,000	13%	29,784,000	100%
February	3.9	23,448,000	86%	3,820,000	14%	27,268,000	100%
March	6.2	29,920,000	87%	4,559,000	13%	34,479,000	100%
April	1.3	26,903,000	87%	4,085,000	13%	30,988,000	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							

39.3	326,236,000	85%	58,874,000	15%	385,110,000	100%
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Monthly Influent Flow
Figure 3A

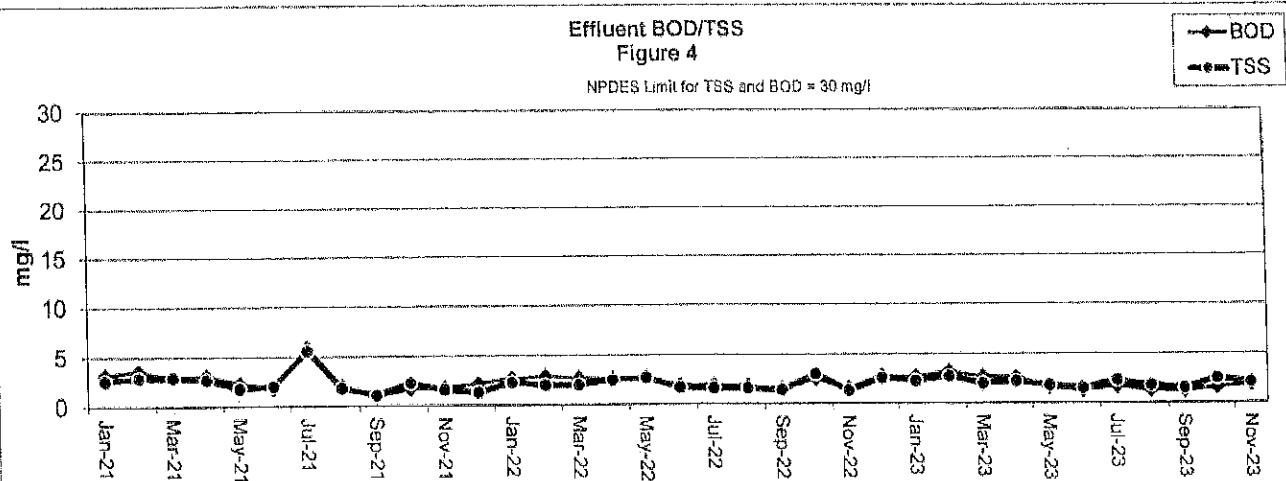


Monthly Influent Flow
Figure 3B

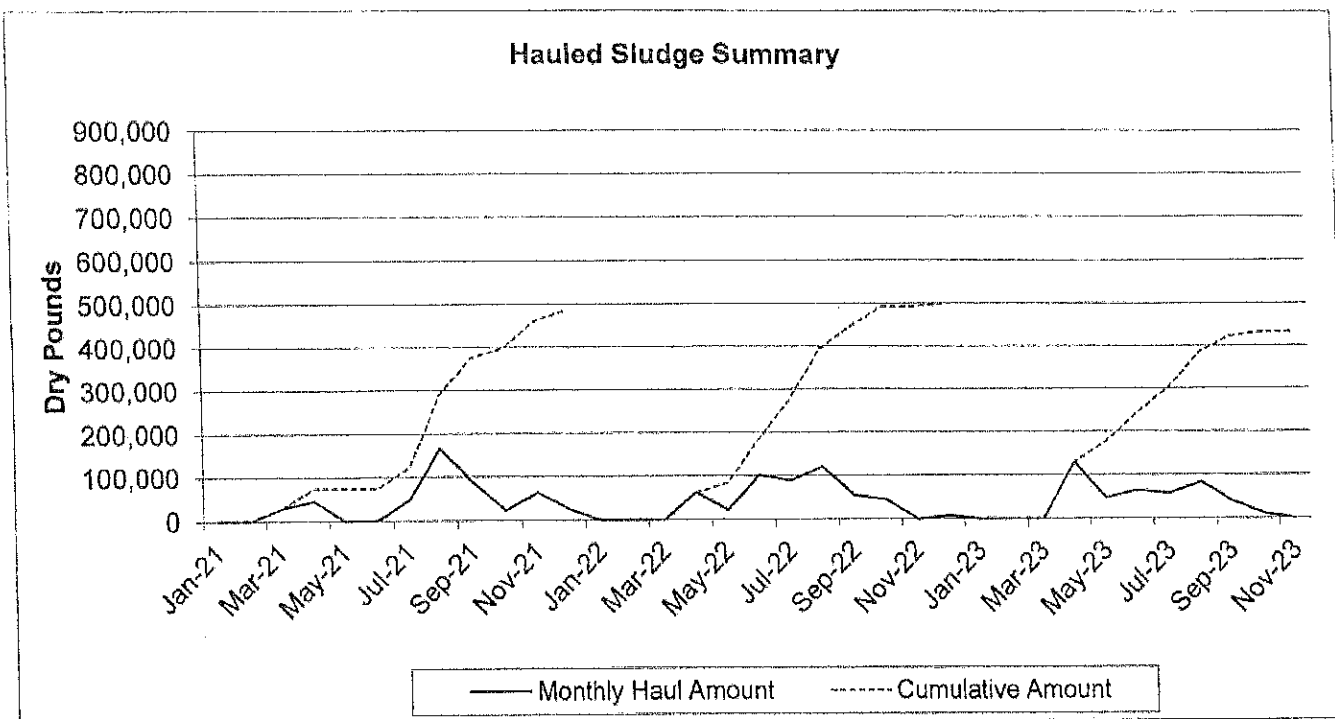
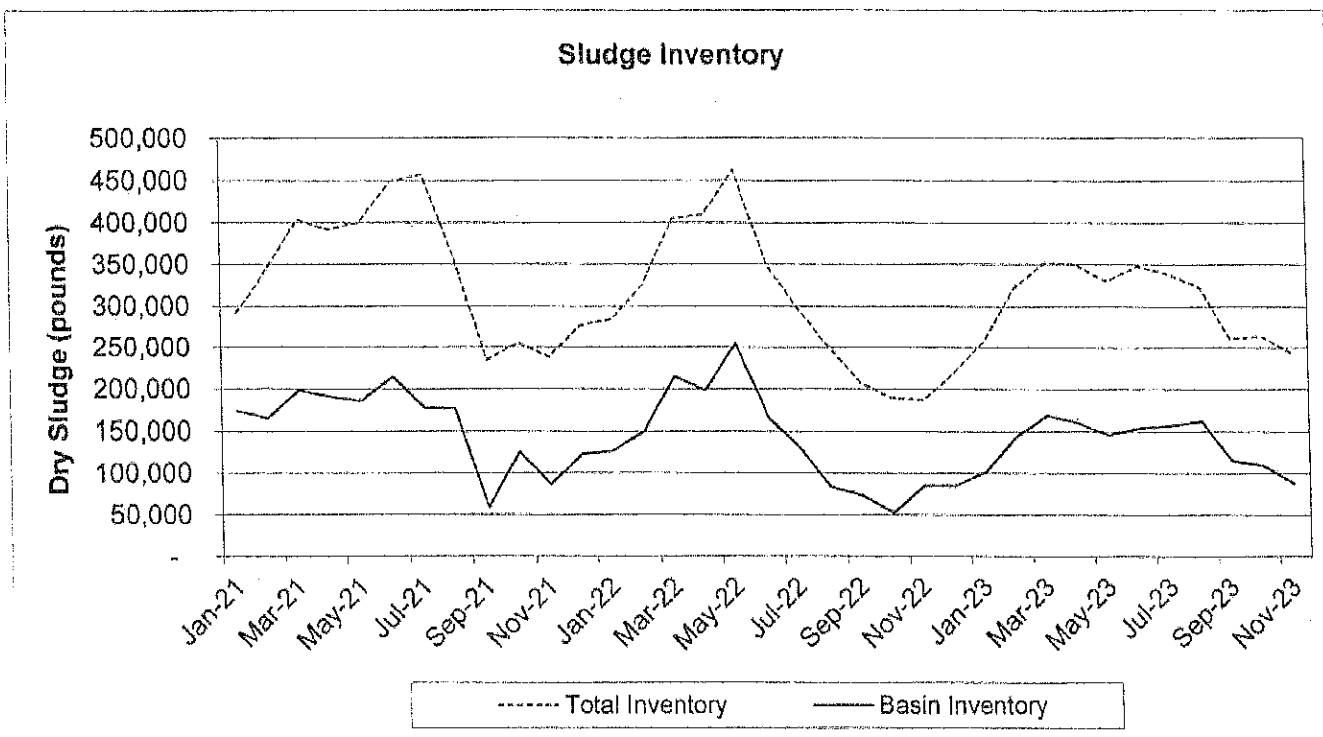


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



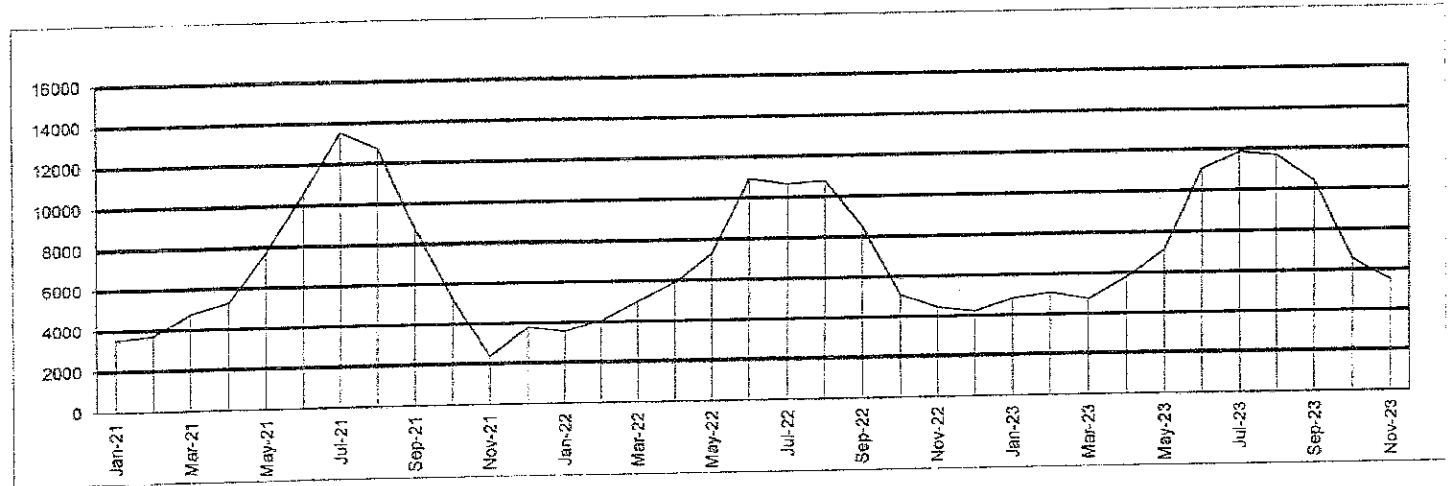
	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage		
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory		Loads	Gallons
Jan-21	0	-	0	4.4%	-	7.0	3.5	0.0	472,500	173,369	6.0	0.0	1.0	3,810	3,780	3,750,000	118,669	0.0038	292,077		83	205,500
Feb-21	0	-	0	4.4%	-	5.0	6.0	0.0	450,000	165,132	5.0	8.0	0.0	5,490	5,750	3,830,908	179,558	0.00562	344,690		28	69,500
Mar-21	23	85,100	28,883	4.1%	28,883	6.0	7.0	0.0	585,000	198,549	2.0	5.0	0.5	6,830	6,330	3,748,048	205,573	0.00658	404,122		32	70,000
Apr-21	39	144,300	45,269	3.6%	74,152	6.0	7.5	0.0	607,500	190,582	12.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957		22	52,000
May-21	0	-	0	3.8%	74,152	6.0	7.0	0.0	585,000	185,398	13.0	14.0	1.0	6,200	6,390	4,123,002	215,427	0.00627	400,825		48	128,500
Jun-21	0	-	0	3.8%	74,152	7.0	8.0	0.0	675,000	213,921	6.0	7.5	2.0	7,260	6,060	3,926,643	234,903	0.00717	448,824		63	151,500
Jul-21	40	144,000	47,378	3.9%	121,530	5.0	7.0	0.0	540,000	177,668	7.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823	457,007		117	289,000
Aug-21	153	550,800	166,363	3.6%	287,893	7.0	6.0	0.0	585,000	176,693	1.0	1.0	0.5	6,160	5,840	3,657,238	183,008	0.0090	359,701		66	163,000
Sep-21	92	331,200	87,226	3.8%	375,119	2.0	3.0	0.0	225,000	59,257	1.0	1.0	0.5	5,320	6,160	3,657,238	175,383	0.0058	234,640		62	159,500
Oct-21	17	61,200	22,698	4.4%	397,817	3.5	4.0	0.0	337,500	125,173	1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043	255,564		34	80,000
Nov-21	46	165,600	83,621	4.6%	461,438	3.0	2.0	0.0	225,000	86,442	0.5	1.0	0.0	5,130	4,980	3,626,643	152,138	0.0050	238,580		37	83,000
Dec-21	16	57,600	24,139	5.0%	485,577	4.0	2.5	0.0	292,500	122,581	1.0	1.0	0.0	4,540	5,630	3,635,524	154,179	0.0051	276,759		27	62,000
Jan-22	0	-	0	4.5%	-	4.5	3.0	0.0	337,500	126,654	1.0	3.5	0.0	5,060	5,180	3,679,929	157,136	0.0051	283,800		13	27,000
Feb-22	0	-	0	4.0%	-	7.0	3.0	0.0	450,000	190,120	4.0	1.5	0.0	6,280	5,030	3,697,691	174,393	0.0057	324,513		32	68,000
Mar-22	0	-	0	4.4%	-	6.0	7.0	0.0	585,000	214,672	9.0	10.0	0.0	5,870	5,760	3,937,478	190,464	0.0058	405,135		23	48,000
Apr-22	47	169,200	62,120	4.4%	62,120	7.0	5.0	0.0	540,000	199,255	10.0	10.0	1.0	7,100	6,600	3,998,668	211,765	0.0064	410,021		52	124,500
May-22	16	57,600	21,017	4.4%	83,137	8.5	7.0	0.0	697,500	254,503	2.0	10.0	1.0	6,290	6,630	3,856,572	207,778	0.0065	462,281		37	85,000
Jun-22	84	302,400	102,052	4.0%	185,189	7.0	4.0	0.0	495,000	167,049	4.5	9.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297		42	93,500
Jul-22	80	288,000	98,951	3.7%	274,150	7.0	2.5	0.0	427,500	132,061	8.0	3.0	1.5	4,740	5,880	3,680,524	166,296	0.0052	298,348		33	68,500
Aug-22	108	388,800	120,426	3.7%	394,576	2.0	4.0	0.0	270,000	83,629	1.5	1.0	0.5	5,450	5,420	3,666,119	166,789	0.0055	250,418	168	300,000	
Sep-22	51	183,600	54,073	3.5%	448,649	3.5	2.0	0.0	247,500	72,893	1.0	1.0	0.5	4,590	4,160	3,657,238	134,359	0.0044	207,251	76	168,000	
Oct-22	42	151,200	44,405	3.5%	493,054	1.0	3.0	0.0	180,000	52,863	0.5	0.5	0.5	4,590	4,390	3,639,476	136,286	0.0045	189,149	33	71,000	
Nov-22	0	-	0	3.5%	493,054	4.0	2.5	0.0	292,500	85,381	1.0	1.0	0.0	4,330	2,340	3,635,524	101,573	0.0034	186,954	38	89,500	
Dec-22	8	28,800	7,746	3.2%	500,800	4.0	3.0	0.0	315,000	84,722	1.5	1.5	0.0	4,510	4,270	3,653,288	133,756	0.0044	218,478	36	71,500	
Jan-23	0	-	0	3.2%	-	5.0	3.5	0.0	382,500	102,082	1.0	1.0	0.0	4,880	5,380	3,635,524	155,543	0.0051	257,625	35	74,500	
Feb-23	0	-	0	3.2%	-	6.5	5.5	0.0	540,000	144,115	2.0	2.0	0.0	6,060	5,570	3,671,048	177,882	0.0058	321,997	38	87,500	
Mar-23	0	-	0	3.2%	-	7.0	7.0	0.0	630,000	169,134	1.0	2.0	1.0	5,310	6,640	3,696,714	184,213	0.0060	352,347	50	115,500	
Apr-23	116	417,000	129,223	3.7%	129,223	7.5	4.0	0.0	517,500	160,367	1.0	1.0	1.0	6,200	6,170	3,676,952	189,771	0.0062	350,138	82	171,500	
May-23	48	172,800	46,747	3.2%	175,970	6.0	6.0	0.0	540,000	146,084	0.5	9.0	0.5	5,120	6,530	3,790,453	184,142	0.0058	330,225	49	102,500	
Jun-23	58	208,800	65,362	3.8%	241,332	6.0	5.0	0.0	495,000	154,953	1.5	4.0	0.5	6,020	6,440	3,719,405	193,254	0.0062	348,207	59	131,500	
Jul-23	51	193,600	58,307	3.8%	299,639	6.0	5.0	0.0	495,000	157,200	2.0	3.5	0.5	6,030	5,710	3,719,405	182,086	0.0059	339,287	61	120,500	
Aug-23	74	266,400	83,567	3.8%	383,226	7.0	4.5	0.0	517,500	162,373	1.0	1.0	0.5	5,600	4,910	3,657,238	160,285	0.0053	322,658	27	66,500	
Sep-23	34	122,400	39,271	3.8%	422,497	7.5	0.5	0.0	360,000	115,503	1.0	1.0	0.5	4,780	4,750	3,657,238	145,339	0.0048	260,642	84	164,000	
Oct-23	9.5	34,200	11,124	3.9%	433,621	7.5	0.0	0.0	337,500	109,776	0.5	0.5	0.5	4,530	5,660	3,639,476	154,650	0.0051	264,426	40	85,500	
Nov-23	0	-	0	3.9%	433,621	3.0	3.0	0.0	270,000	87,820	2.0	2.0	0.5	4,550	5,540	3,692,762	155,374	0.0050	243,194	30	59,000	



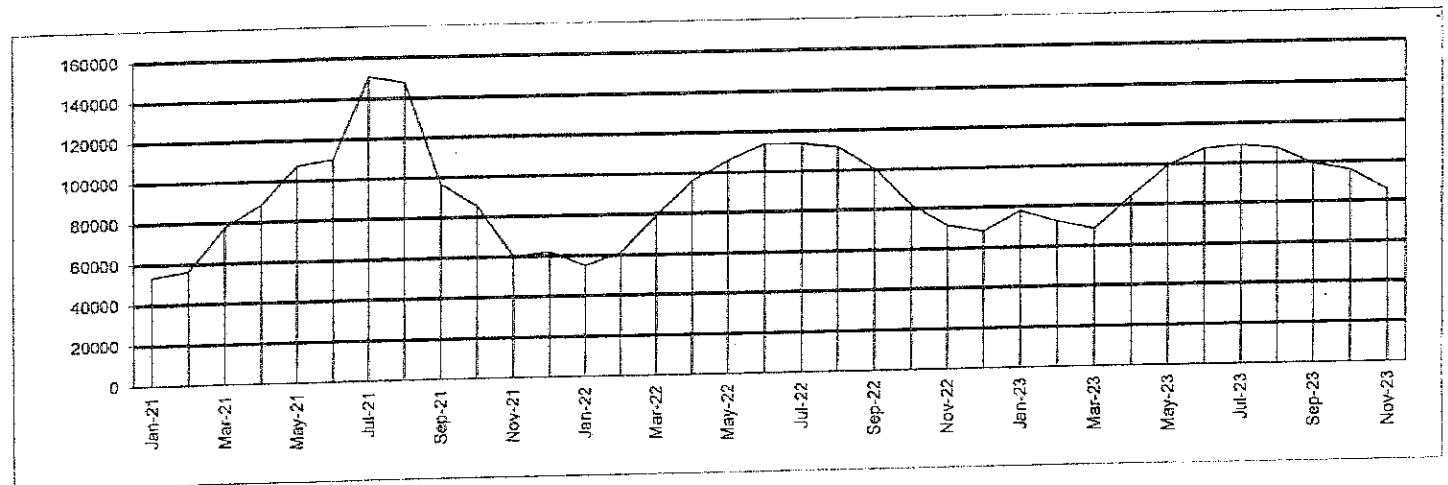
Electric Cost Kilowatts Used

Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130
Jul-21	13533	150,740
Aug-21	12737	147,810
Sep-21	8751	96,600
Oct-21	5233	85,530
Nov-21	2348	60,370
Dec-21	3776	62,100
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

Electric Cost



Kilowatts Used





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							
Nov-23		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	6.9			17.1	14.9	1.073	7.6			0.02	9.6		11.8		
2	6.9				15.9	1.130	7.6				10.1		12.5		
3	7.0	210	616		16.7	1.039	8.0	1.9	2.6		10.4		13.5	99.1	99.6
4	7.0				17.2	1.186	7.6				10.1		14.1		
5	7.0				16.1	1.231	7.6				10.1		13.4		
6	6.9				18.7	1.181	7.6				10.0		16.0		
7	7.0				18.3	1.262	7.6				9.7		16.7		
8	6.8			36.0	19.0	1.403	7.6			0.03	9.7		17.6		
9	7.1				17.6	1.311	7.7				9.5		16.3		
10	7.0	215	274		16.7	1.226	8.0	2.0	2.2		4.8		15.4	99.1	99.2
11	6.9				15.4	1.256	7.6				10.0		13.1		
12	7.5				16.9	1.205	7.7				10.2		13.0		
13	6.9				16.5	1.124	7.6				10.3		14.2		
14	7.0				15.0	1.128	7.6				10.3		12.9		
15	7.0			36.3	16.3	1.111	7.5			0.05	10.5		13.5		
16	6.9				16.5	1.052	7.6				8.7		13.7		
17	7.0	308	376		16.7	1.130	7.5	1.8	1.9		3.7		14.9	99.4	99.5
18	7.1				15.9	1.063	7.6				10.2		13.1		
19	7.0				16.2	1.114	7.7				9.9		13.0		
20	7.0				15.7	1.137	7.6				9.3		13.4		
21	7.2			26.9	16.5	1.294	7.7			0.05	9.6		13.6		
22	6.9	175	236		14.0	1.134	7.6	1.7	1.6		9.8		12.6	99.0	99.3
23	6.9				14.3	1.157	7.9				9.9		12.3		
24	6.9				14.2	0.926	7.9				10.1		11.1		
25	6.9				13.9	1.096	7.5				10.3		9.7		
26	7.2				13.8	1.109	7.7				11.3		11.0		
27	7.0				14.5	0.955	7.6				11.3		10.3		
28	6.9				13.3	1.036	7.5				12.0		10.5		
29	7.0			26.5	14.4	1.071	7.5			0.01	11.7		10.4		
30	7.4				13.9	1.034	7.6				11.3		11.1		
Total						34.174									
Avg		227	376	26.6	15.8	1.139		1.9	2.1	0.03	9.8	0.0	13.2	99.2	99.4
Min	6.8	175	236	17.1	13.3	0.926	7.5	1.7	1.6	0.01	3.7	0.0	9.7	99.0	99.2
Max	7.5	308	616	36.3	19.0	1.403	8.0	2.0	2.6	0.05	12.0	0.0	17.6	99.4	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	5.43	< 0.130	37.2					7.57	37.9	0.154
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	5.43	< 0.130	37.2					7.57	37.9	0.154
Avg	5.43	< 0.130	37.2					7.57	37.9	0.154
Min	5.43	< 0.130	37.2					7.57	37.9	0.154
Max	5.43	< 0.130	37.2					7.57	37.9	0.154

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

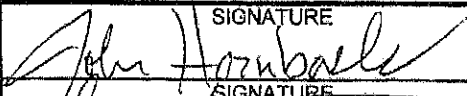
DATE Nov-23	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				* Ambient Temp ° F	*RAIN Inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		6.8	4,580	500	11.6	4.5	5,810	820	12.7	29	0	7:30
2		7.9	3,640	680	12.3	4.8	5,370	820	12.9	35	0	7:30
3		7.1	5,340	600	13.4	5.9	4,970	750	13.8	41	0	7:30
4		6.2	5,490	800	14.8	6.2	4,700	700	15.0	58	0	7:30
5		4.8	5,410	800	13.7	6.2	4,750	650	14.3	44	0	7:30
6		3.2	5,570	700	17.5	4.8	3,980	400	17.4	59	0	7:30
7		3.5	5,870	700	17.2	4.2	4,400	500	17.0	57	0	7:30
8		2.6	5,390	550	17.7	3.9	3,140	400	17.8	62	0	7:30
9		3.0	5,410	600	16.9	2.8	2,240	400	17.0	48	0	7:30
10		3.5	5,230	740	15.5	5.0	4,860	690	15.5	40	0	7:30
11		5.6	4,320	720	13.4	6.1	3,760	760	14.0	35	0	7:30
12		5.6	4,780	780	13.8	6.0	5,000	820	14.0	41	0	7:30
13		6.5	4,690	620	14.6	4.7	6,030	840	14.6	41	0	7:30
14		5.4	3,370	680	13.2	4.0	5,560	860	14.1	35	0	7:30
15		6.4	5,280	690	13.4	4.0	3,220	550	14.1	39	0	7:30
16		4.5	5,670	820	13.8	4.0	4,980	710	14.5	42	0	7:30
17		3.7	5,980	800	15.5	3.5	5,120	750	15.8	61	0	7:30
18		6.6	5,540	820	13.5	5.3	5,070	750	13.6	32	0	7:30
19		6.1	5,950	750	13.5	5.0	5,430	840	13.8	39	0	7:30
20		7.3	4,420	620	13.8	7.1	5,740	840	14.0	48	0.25	7:30
21		4.8	5,020	760	13.8	4.3	5,110	800	14.2	48	0.5	7:30
22		5.4	5,500	770	12.7	4.5	4,780	790	13.1	36	0	7:30
23		5.9	5,570	810	12.4	5.5	5,020	800	12.7	36	0	7:30
24		6.0	5,360	820	11.8	6.9	5,030	810	11.7	62	0	7:30
25		7.0	5,230	820	11.0	7.1	5,160	830	11.0	30	0	7:30
26		6.9	5,380	800	11.6	7.1	5,370	850	11.5	38	0.2	7:30
27		7.6	5,370	810	10.9	7.5	5,510	870	10.9	30	0	7:30
28		6.4	5,190	830	10.4	7.3	5,590	870	10.5	29	0	7:30
29		5.9	5,190	780	11.0	6.6	5,690	840	11.2	36	0	7:30
30		6.0	4,550	850	11.1	4.8	5,540	860	11.0	40	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)

John Hornback

SIGNATURE



PHONE #

(573)365-0455

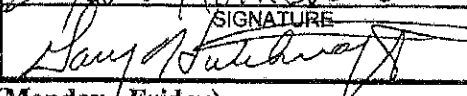
DATE

12/5/2023

REPORT APPROVED BY (PRINT)

Gary Hutchcraft

SIGNATURE



PHONE #

(573)365-0455

DATE

12/5/2023

*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	
11/1/23	11/30/23
NOD:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	1.403	1.139	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	*****	2.0	1.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	2.6	2.1	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Phosphorus, total (as P)	5.43	*****	5.43	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)	<0.130	*****	<0.130	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)	37.2	*****	37.2	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 N)	0.05	*****	0.03	mg/L	*****	*****	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							

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

pH	7.5	*****	8.0	SU	*****	*****	*****
Mon. Location.: End of Pipe	Minimum:6.0	*****	Maximum:9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	99.0	%	*****	*****	*****
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:							

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	INFIM
Monitoring Period	
11/1/23	11/30/23
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
BOD, 5-day, 20 deg. C	*****	*****	227	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Total Suspended Solids (TSS)	*****	*****	376	mg/L	*****	*****	*****	
Mon. Location.: Influent	*****	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, ammonia total (as N)	36.3	*****	28.6	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Phosphorus, total (as P)	7.57	*****	7.57	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, Kjeldahl, total (as N)	37.9	*****	37.9	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrite plus nitrate total (as N)	0.154	*****	0.154	mg/L	*****	*****	*****	
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								

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 December 6, 2023	User Phone Number (573)365-0455
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88 NOVEMBER 2013

Date 12/4/2023



Tabulation Sheet for RAS Pump Replacement Project Bids

Bidding Contractor	Date & Time Opened	Project Item & Brand of Pump	Bid Price	Warranty
Dodge Const. Net.			No Bid	
Vandevanter Co.			No Bid	
Municipal Equip.			No Bid	
Enviro-Line Co.	12/4/23 @ 1:00 pm	Remove & Replace RAS Pumps & Check valves on RAS 2, 3 & 4. Supply & Install new VFD pump controls, 3 - KSB Sewabloc F 15-315G2 VF Pumps, & 3 - CCNE Model 8001 AWWA Swing Check Valve Outside Lever & Weight	\$196,250.00	5 Year
Zeller Technologies	12/4/23 @ 1:02 pm	Remove & Replace RAS Pumps & Check valves on RAS 2, 3 & 4. Supply & Install new VFD pump controls, 3 - KSB Sewabloc F 15-315G2 VF Pumps & 3 - CCNE Model 8001 AWWA Swing Check Valve Outside Lever & Weight	\$188,600.00	5 Year
JCI Industries	12/4/23 @ 1:04 pm	Remove & Replace RAS Pumps & Check valves on RAS 2, 3 & 4. Supply & Install new VFD pump controls, 4 - Keene K6VBDP Dry-Pit Solids-Handling Pumps & 3 - CCNE Model 8001 AWWA Swing Check Valve Outside Lever & Weight	\$188,500.00	5 Year