

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
April 18, 2023 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Dennis Newberry
Mayor, Michael Harmison
City Administrator, Harrison Fry
City Administrator, Jeana Woods
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Public Works Operations Manager, Kevin Crooks
Member at Large, Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: March 21, 2023

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4. REPORTS

Bills List
Revenue Budget Analysis
Expenditure Budget Analysis
Income & Expense Summary

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5. ALLIANCE REPORT OF OPERATIONS

15-32

6. APPROVAL OF FEBRUARY FLOW CHARTS

7. OLD BUSINESS

A. Board Representative Update

8. NEW BUSINESS

A. Discussion regarding pre-approval of bid for painting of the RAS basement

9. ADDITIONAL DISCUSSION ITEMS

10. ADJOURNMENT

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**

Meeting Minutes – March 21st, 2023

CALL TO ORDER:

Mayor Harmison called the meeting to order at 4:00 pm on Tuesday, March 21, 2023 at Lake Ozark City Hall.

ROLL CALL:

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

MINUTES:

Alderman Thompson motioned to approve the meeting minutes from February 21, 2023. Her motion was seconded by Manager Crooks and passed unanimously.

REPORTS:

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

Member Hamner noted that the insurance contract is on its third year of a three-year contract. It is his recommendation that the matter be revisited later this year, as the policy should be re-bid. A motion was then made by Alderman Thompson to approve the Bills List, Revenue Budget Analysis, Expenditure Budget Analysis, and the Income & Expense Summary. Her motion was seconded by Administrator Woods and was passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for February was 0.974 mgd. We had 3.9 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 3.2 mg/l and 2.7 mg/l respectively for February which represents a 98.6 + % or better removal.

The MLSS average for both aeration basins were 5,123 mg/l. The total dry weight sludge inventory totaled 321,997 pounds. 38 loads of septage or 87,500 gallons were received.

APPROVAL OF FLOW CHART:

Member Hamner motioned to approve the February flow chart. The motion was seconded by Alderman Thompson and was unanimously approved.

OLD BUSINESS:

- A. Board Representative Update. Operations Manager Crooks advised that he had nothing new to report.

NEW BUSINESS:

- A. Bids for the UV wiper holders. After discussion, a motion was made by Alderman Thompson to approve and accept the bid from UV Doctor in the amount of \$3,312.00. Her motion was seconded by Operations Manager Crooks and was then unanimously approved.
- B. Removal of aerator gear boxes and replacing of bolts. After discussion, a motion was made by Administrator Woods to approve and accept the bid from Professional Metal Fabricators in an amount not to exceed \$8,569.82. Her motion was seconded by Administrator Fry and was then unanimously approved.
- C. Installation of new flow meters and sensors. After discussion, a motion was made by Alderman Thompson to approve and accept the bid from Municipal Equipment Co., Inc. in the amount of \$20,233.00. Her motion was seconded by Operations Manager Crooks and was then unanimously approved.
- D. Introduction of Mr. Josh Duncan. Mr. Tim Geraghty introduced Mr. Duncan who was welcomed by the Board.
- E. State and Federal Regulatory Compliance Report. Mr. Hutchcraft advised that these were included in the packet for informational purposes only. No action is required. These reports will be provided to the Board on a quarterly basis.

ADDITIONAL DISCUSSION ITEMS:

Administrator Fry noted that after the last meeting a vote was taken by digital proxy, and he was not sure that is allowed by the Joint Sewer Bylaws. Administrator Woods noted that the Bylaws

have not been updated in a very long time. She is willing to look into the matter and bring it back to the Board at a future meeting.

ADJOURNMENT:

With no further business to discuss, a motion was made by Operations Manager Crooks to adjourn. His motion was seconded by Alderman Thompson. The meeting adjourned at 4:19 pm.

Approved:

Michael Harmison, Mayor

Robin Craig, Clerk

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JOINT SEWER BOARD
BILL LIST
APRIL 18, 2023

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	480.00
OPERATING FUND BILLS TO BE PAID:	\$	43,715.89
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	699.99
TOTAL	\$	44,895.88

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:			Amount:
Account	Paid To:	Description:	
4020	Catalyst Elec	Troubleshoot Bar Screen & Pista	\$ 480.00
			\$ -
TOTAL			\$ 480.00

OPERATING FUND BILLS TO BE PAID:			Amount:
Account	Paid To:	Description:	
4000	Equipment Replacement Fund	Payment into ER Fund	\$ 5,000.00
4020	CED	Contacting & Overload Relay	\$ 200.00
4020	John Henry Foster	Pressure Switch	\$ 170.42
4020	Majestic Franchising Inc.	April	\$ 275.00
4020	M/C QuickBooks	Accounting Software	\$ 30.00
4020	M/C Lowes	Bolts for Pista Grit	\$ 12.87
4020	M/C Lowes	Return Bolts	\$ (12.87)
4020	Menards	Plier & Strap	\$ 10.02
4020	Menards	Fittings for Pista Grit	\$ 6.88
4020	Menards	Pipe Fittings for UV	\$ 30.88
4020	Menards	WD-40, Lubricant	\$ 21.65
4020	Menards	Pipe Fitting	\$ 4.18
4020	Menards	Cleaning Supplies	\$ 30.34
4020	Milwaukee Rubber	Replacement Hose/Loading Station	\$ 462.11
4020	O'Reilly	Airfilter - UV System	\$ 75.86
4020	Sydenstricker	Lawnmower Service	\$ 289.75
4020	Wallis Lubricant LLC	Gear Lube for Aerators, Clarifiers, etc.	\$ 1,058.16
4150	Wallis Lubricant LLC	Oil for Sludge Trk	\$ 505.52
4140	Cincinnati Insurance	Directors Lia, 4/10/23 to 4/10/24	\$ 868.00
4150	O'Reilly	Fuel & Oil Filters Sludge Trk	\$ 206.78
4170	Alliance Water Resources, Inc.	April	\$ 29,466.00
4175	Ameren MO	11673321	\$ 4,559.01
4175	Ameren MO	98041275	\$ 170.93
4176	AT&T	April	\$ 103.60
4176	Ferrellgas	Tank rental (2)	\$ 40.00
4176	Republic	April	\$ 120.80
TOTAL			\$ 43,715.89

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:			Amount:
Account	Paid To:	Description:	
			TOTAL \$ -

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:			Amount:
Account	Paid To:	Description:	
4000	Menards	Replace AC Unit - UV Room	\$ 699.99
			\$ -
TOTAL			\$ 699.99



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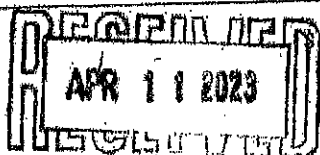
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Account Number 4580005832
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD.,
 LAKE OZARK, MO 65049

Current Detail for Statement 04/10/2023

Total Electric Charges \$4,559.01

Total Amount Due \$4,559.01



AMOUNT DUE \$4,559.01

Due Date 05/01/2023

Amount After Due Date \$4,604.80

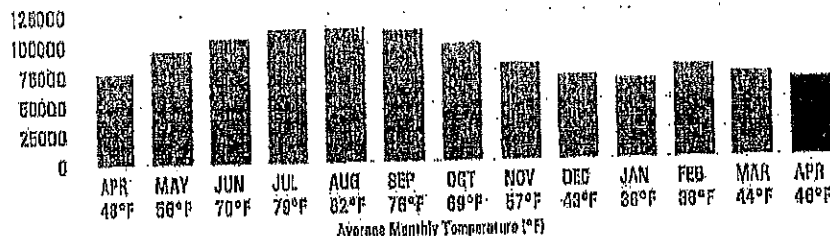
Previous Statement \$4,943.90

Total Payments \$4,943.90

Payment Received: Thank You

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **13.6% more** than last year.

2022 248,800 kWh

2023 282,580 kWh

Usage from Jan-Apr for 2022 & 2023

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: *Gay Hubert*

Date: 4/11/23

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See next page for service details.

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Amount Due	Due Date
\$4,559.01	May 01, 2023
Delinquent Amount After Due Date	Account Number
\$4,604.80	4580005832

Amount Enclosed \$

>003739 2175261 0001 092139 10Z

ALLIANCE WATER RESOURCES INC
 P.O. BOX 1988
 LAKE OZARK, MO 65049-1988

AMEREN MISSOURI
 P.O. BOX 88088
 CHICAGO IL 60680-1088

00600000 0045800058302 000004559010 000004559010



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Electric Service Details

Service from 03/08/2023 - 04/06/2023 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11873321	03/08 - 04/06	29	Total kWh	Actual	78710.8000	78266.0000	444.8000	180.0000	88400.0000
11873321	03/08 - 04/06	29	Peak kW	Actual	0.8480	0.0000	0.8480	160.0000	135.8000

Usage Summary

Total kWh	88400.0000	Non-Summer kWh	88400.0000
Peak kW	135.8000	Billing Demand	135.8000
Total Billing Demand	135.8000	October Winter Base kW	164.6000
Winter Base Demand	135.8000	Base kWh Ratio	1.0000
Base kWh (HUD)	88400.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03870000	\$0.00
Summer Demand Charge	135.80	kW	@ \$ 0.00000000	\$0.00
Winter Demand Charge	135.80	kW	@ \$ 2.18000000	\$298.04
Energy Charge/Hours Used	0.00	kWh	@ \$ 0.10540000	\$0.00
Base Energy Charge / Hours Used	20,370.00	kWh	@ \$ 0.06620000	\$1,348.48
Base Energy Charge / Hours Used	27,180.00	kWh	@ \$ 0.04920000	\$1,338.27
Base Energy Charge / Hours Used	18,870.00	kWh	@ \$ 0.03870000	\$730.27
Customer Charge				\$104.86
Fuel Adjustment Charge	66,400.00	kWh	@ \$ 0.00627000	\$416.33
Energy Efficiency Investment Charge	66,400.00	kWh	@ \$ 0.00457100	\$303.61
Renewable Energy Adjustment	66,400.00	kWh	@ \$ 0.00035000	\$23.24
Total Service Amount				\$4,559.01
Total Electric Charges				\$4,559.01

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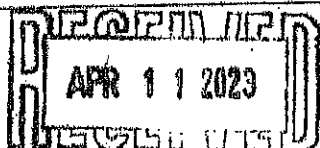
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Account Number 6680005920
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

Current Detail for Statement 04/10/2023

Total Electric Charges \$170.93

Total Amount Due \$170.93



AMOUNT DUE \$170.93

Due Date 05/01/2023

Amount After Due Date \$172.64

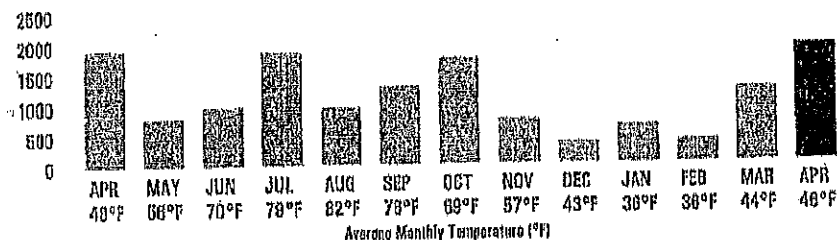
Previous Statement \$129.71

Total Payments \$129.71

Payment Received. Thank You.

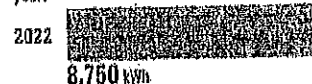
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **52.5% less** than last year.



Usage from Jan-Apr for 2022 & 2023

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Signature:

Date:

4675

[Signature]

4/11/23

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Amount Due	Due Date
\$170.93	May 01, 2023
Delinquent Amount After Due Date	Account Number
\$172.64	6680005920

Amount Enclosed \$

>003737 23.95263 0001 092139 10Z

ALLIANCE WATER RESOURCES INC
PO BOX 1988
LAKE OZARK, MO 65049-1988

AMEREN MISSOURI
PO BOX 88088
CHICAGO IL 60680-1088

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Electric Service Details

Service from 03/08/2023 - 04/06/2023 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041270	03/08 - 04/08	29	Total kWh	Actual	26788.0000	26694.0000	192.0000	10.0000	1920.0000
98041275	03/08 - 04/08	29	Peak kW	Actual	5.1950	0.0000	5.1950	10.0000	51.9500

Usage Summary

Total kWh	1920.0000	Non-Summer kWh	1920.0000
Winter Base kWh	1000.0000	Current Base kWh	1000.0000
Winter Cur Base kWh	1000.0000	Seasonal kWh	920.0000
Winter Seasonal kWh	920.0000		

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	1,000.00	kWh	@ \$ 0.08480000	\$84.80
Seasonal Energy Charge	920.00	kWh	@ \$ 0.04880000	\$44.80
Customer Charge				\$21.88
Fuel Adjustment Charge	1,920.00	kWh	@ \$ 0.00627000	\$12.04
Energy Efficiency Investment Charge	1,920.00	kWh	@ \$ 0.00348900	\$6.68
Renewable Energy Adjustment	1,920.00	kWh	@ \$ 0.00035000	\$0.67
Total Service Amount				\$170.83
Total Electric Charges				\$170.93

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
March 27, 2023	\$129.71

Questions? Contact Ameren Missouri at 1.877.426.3739 or visit AmerenMissouri.com.

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MONTH-TO-DATE AND YEAR-TO-DATE

REVENUE/BUDGET ANALYSIS

3/31/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget	2023 Actual as of 3/31/2023	2023 March Revenue	Percent YTD
3020	Osage Beach	465,202.63	460,708.70	481,940.00	122,493.70	42,194.47	25%
3010	Lake Ozark	84,797.35	91,794.26	98,710.00	20,364.63	6,193.03	21%
3030	Misc.	22,000.00	1,094.92	0.00	0.00	0.00	0%
3100	Interest	2,700.22	2,462.35	2,500.00	1,374.11	23.96	55%
3060	Waste Haulers' Fee	60,520.00	49,490.00	56,000.00	13,485.00	5,400.00	24%
Total Operating Fund		635,220.20	605,550.23	639,150.00	157,717.44	53,811.46	25%
E/R Fund Income		5,508.47	3,588.63	4,000.00	2,241.12	216.24	56%
TOTAL INCOME		640,728.67	609,138.86	643,150.00	159,958.56	54,027.70	25%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
3/31/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget	2023 Actual as of 3/31/2023	2023 March Expenses	Percent YTD
4000	Equipment Replace Fund	143,608.00	55,008.00	60,000.00	15,000.00	5,000.00	25%
4020	*Maintenance & Repair	104,853.81	60,030.11	93,500.00	17,668.21	7,857.45	19%
4140	Insurance	21,493.00	22,088.00	23,000.00	21,898.00	21,898.00	95%
4150	Vehicle Repair/Main	11,099.99	5,999.58	8,000.00	131.00	131.00	2%
4170	Contract Management	308,640.00	331,080.00	360,000.00	88,378.00	29,466.00	25%
4175	Electric	82,227.41	79,890.16	81,000.00	14,107.32	5,073.61	17%
4176	Utilities Misc.	3,523.17	3,694.18	5,000.00	2,142.16	176.57	43%
4190	Bank Charges	0.00	12.00	0.00	3.00	0.00	0%
4200	Audit	2,600.00	2,700.00	2,800.00	0.00	0.00	0%
4240	Capital Purchases	399.99	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	660,502.03	633,300.00	159,327.69	69,602.63	25%
	**E/R Expenses	202,161.70	11,093.28	103,000.00	76,608.44	75,426.28	74%
	TOTAL EXPENSES	880,612.07	571,595.29	736,300.00	235,934.13	145,028.91	32%

4020 DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500
Regular Maintenance	20,000
UV Bulbs, Quartz Sleeves, Misc	10,000
Painting RAS basement piping	30,000
Rock for road	3,000
Sandblasting & paint Clarifier #2	30,000

93,500.00

DETAIL: Equipment & Replacement

Replace wooden doors w/fibergla	3,000
Replace flow meter for the effluent	25,000
*Replace aerator gear box - new	75,000 X
	103,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
3/31/2023

Beginning Balance	358,298.70
Income - Osage Beach	42,194.47
Income - Lake Ozark	6,193.03
Income - Other	-
Income - Waste Haulers' Fees	5,400.00
Interest - Checking	23.96
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers To E/R Fund	(5,000.00)
Expenses	(64,602.63)
Ending Fund Balance	342,507.53
Central Bank - NOW Acct.	118,745.51
	-
CD First Bank of the Lake, 11/20/23 #8432	108,731.14
CD First Bank of the Lake, 10/22/23 #8433	115,235.49
	-
Outstanding Checks:	(204.61)
	342,507.53

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
3/31/2023

Beginning Balance	537,785.32
Interest - Checking	216.24
Income - CD Interest	-
Transfers From Operating Fund	5,000.00
Income - Miscellaneous	-
Expenses	(75,426.28)
Ending Fund Balance	467,575.28
First Bank of the Lake - Money Mkt.	86,173.63
CD First Bank of the Lake, 1/31/24 #8430	111,401.65
CD First Bank of the Lake, 5/07/24 #8434	270,000.00
	-
	-
Outstanding Checks:	-
	467,575.28

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REPORT OF OPERATIONS

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

Month of March 2023

Submitted by Alliance Water Resources, Inc. for the

April 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 Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.7	2.1	N/A	0.0		0.06	< 4.9
Peak Day	4.2	3.6	8.3	0.0		0.12	< 4.9
Percent Removal	99.1	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 Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	30	30	6-9	126		3.1	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 1,112 MGD or 37% of Permitted flow with Lake Ozark contributing 13% of the total flow and Osage Beach contributing 87%. 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 82758 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.

0 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 630,000 gallons with a level of 7.0 feet in Tank 1 and 7.0 feet in Tank 2.

WASTEHAULERS

The plant received 50 loads of septage during the month totaling 115,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We put Clarifier #3 back online on the 2nd of March.
- We installed the UV banks and put the UV system back online on the 30th of March.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We installed the prefilter system for the UV wiper system on the 17th of March.
- We took the lawn mower into Sydenstricker John Deere for its annual service/maintenance on the 24th of March and got it back on the 3rd of April.
- A technician from the Ray Lindsey Company came in on the 29th of March to assist us with troubleshooting the Pista Grit system. We concluded that it needed a motor contactor and overload relay. We found them at the local CED electrical supply and were delivered on the 31st. The tech from Ray Lindsey also suggested to get a new bladder for the pressure side of the system so we have one on order. We have gotten the system back online but are still working out some of the smaller issues.

SAFETY

- We conducted our monthly Safety Meeting on Back Injury Protection & Slips/Trips/Falls on the 14th of March.

REGULATORY AGENCY, INSPECTION AND REPORT

- We filled out the new EDMR on the EPA MoGEM website on the 12th of April.

MISCELLANEOUS AND RECOMMENDATIONS

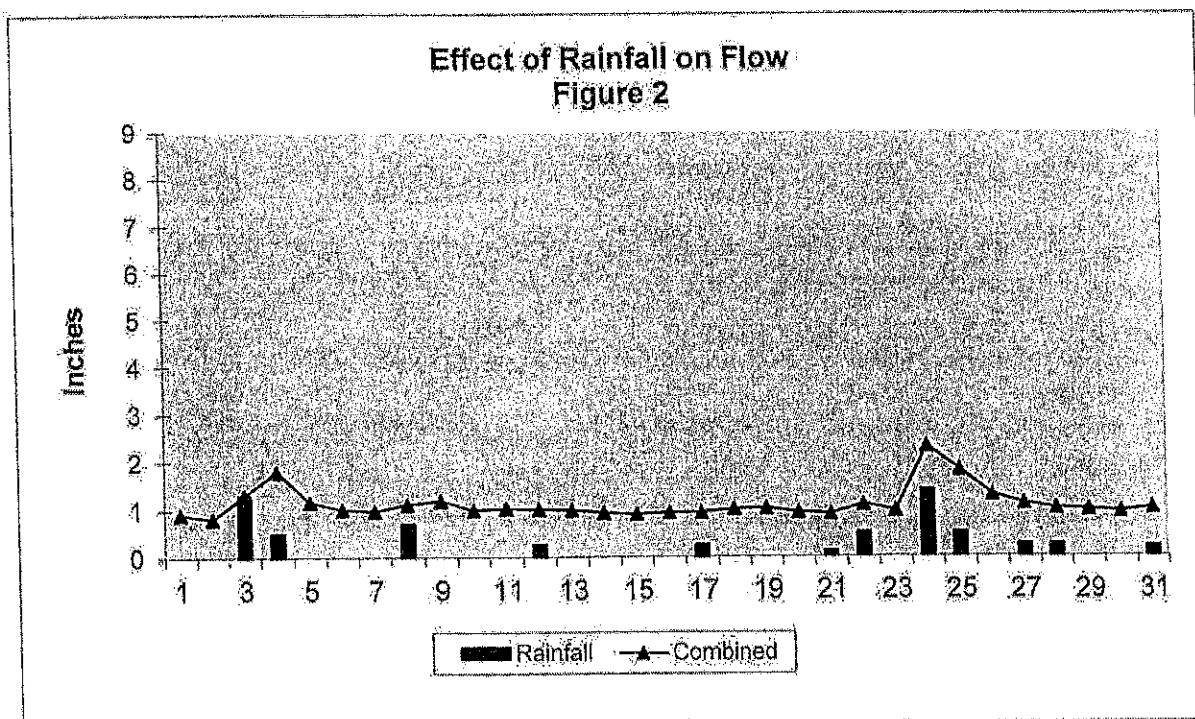
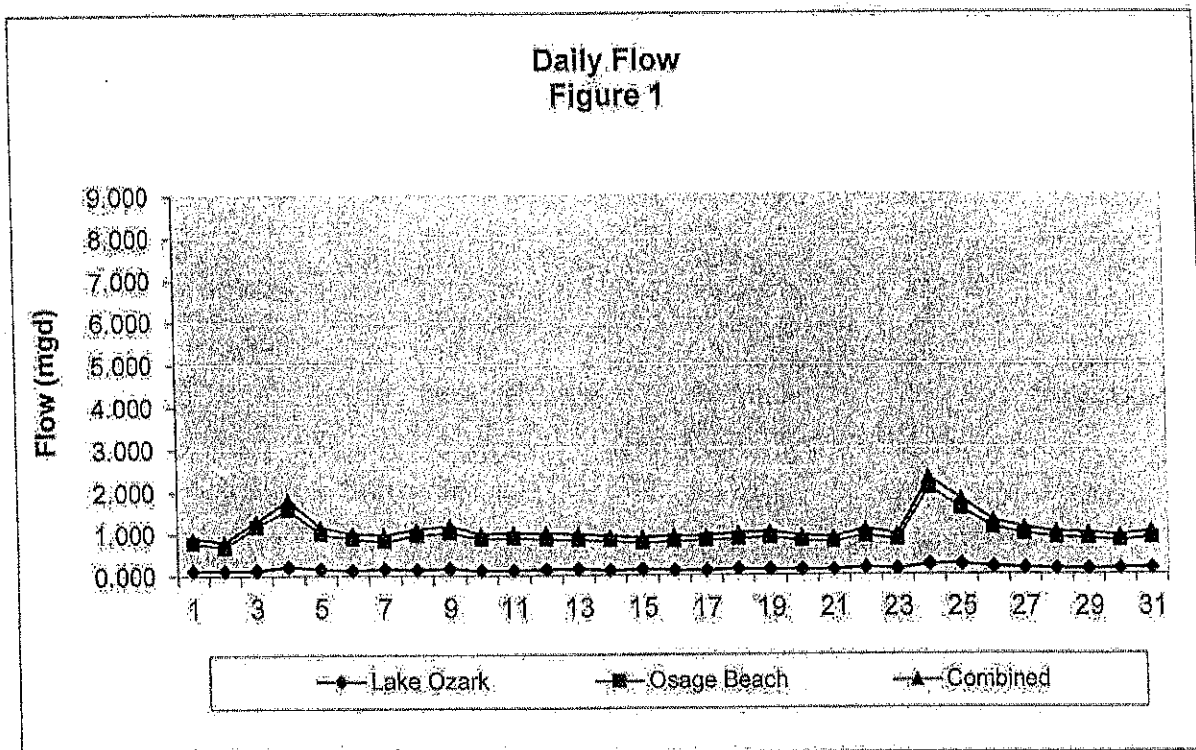
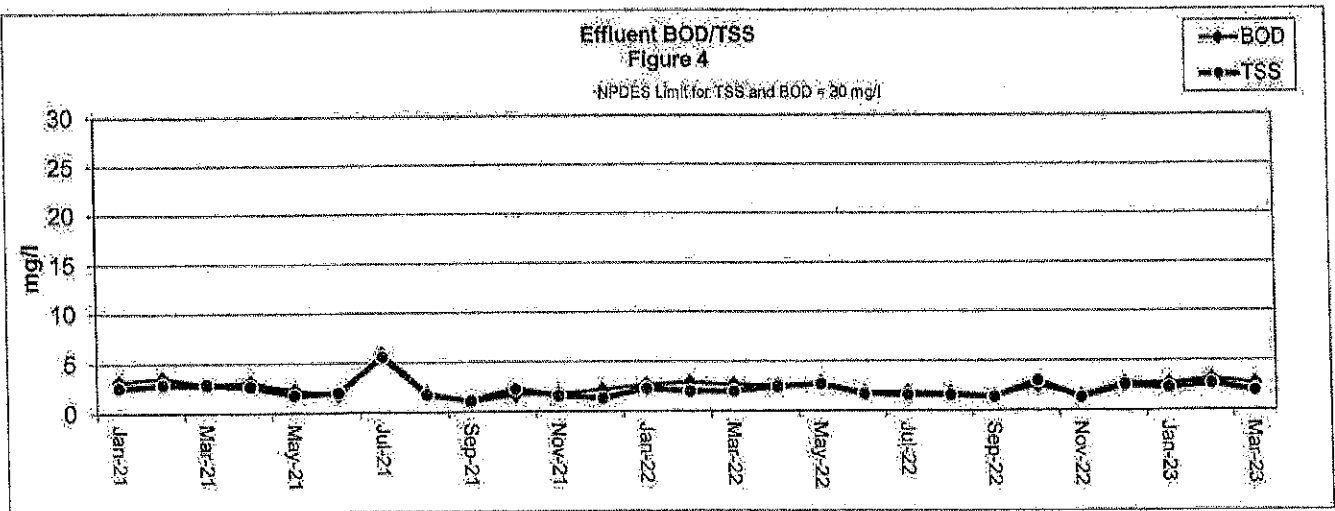
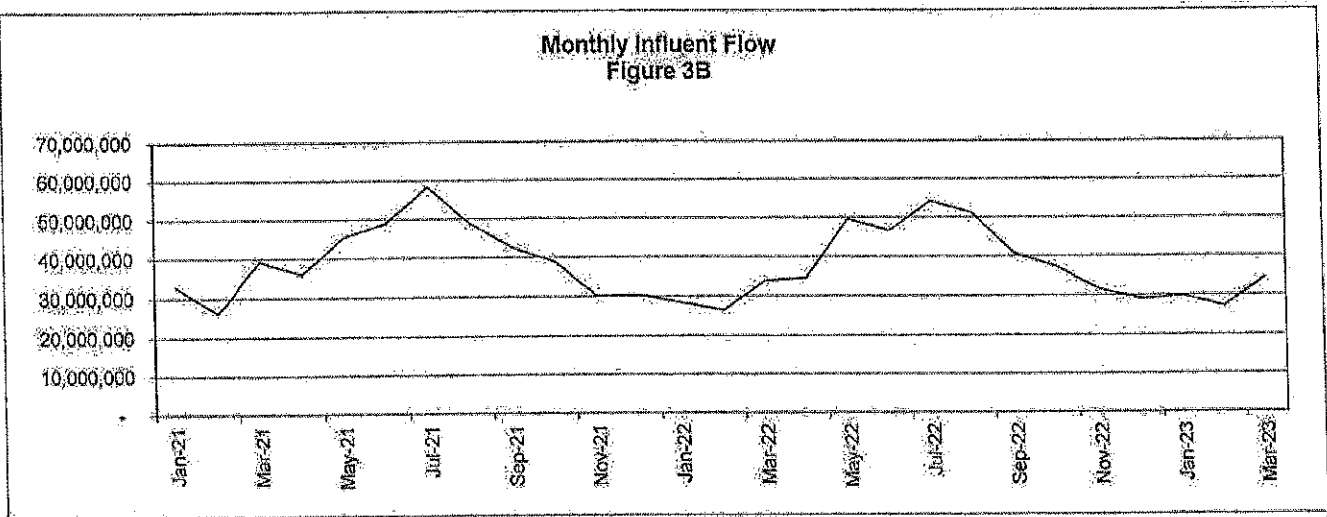
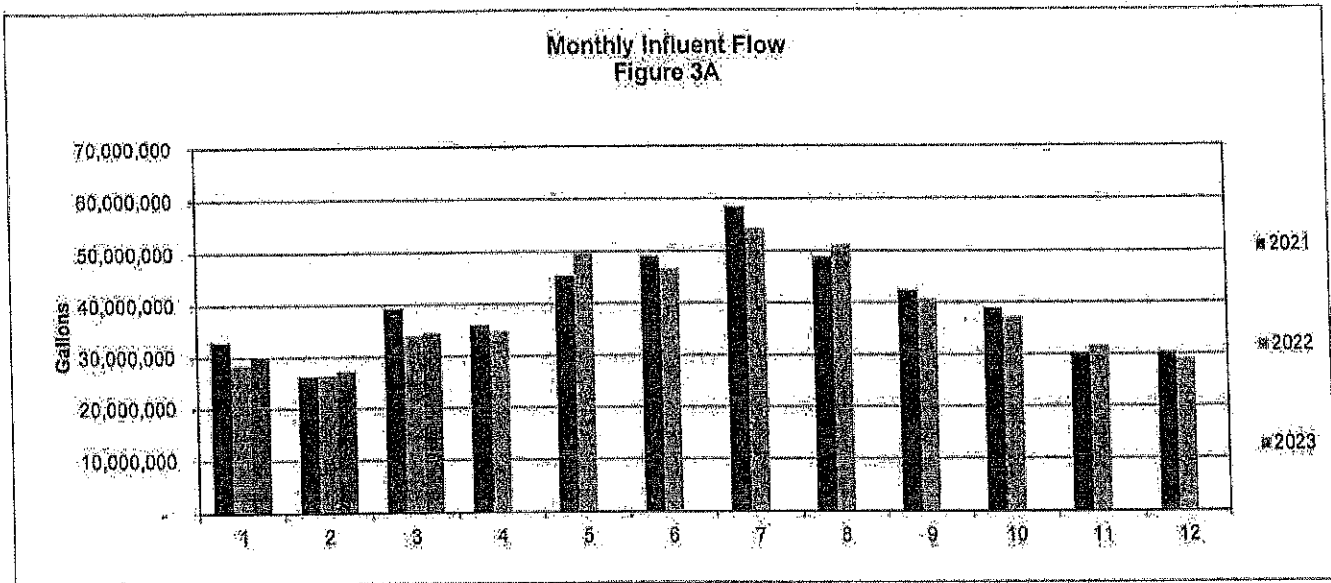


TABLE B
JOINT SEWER BOARD
Monthly Flows

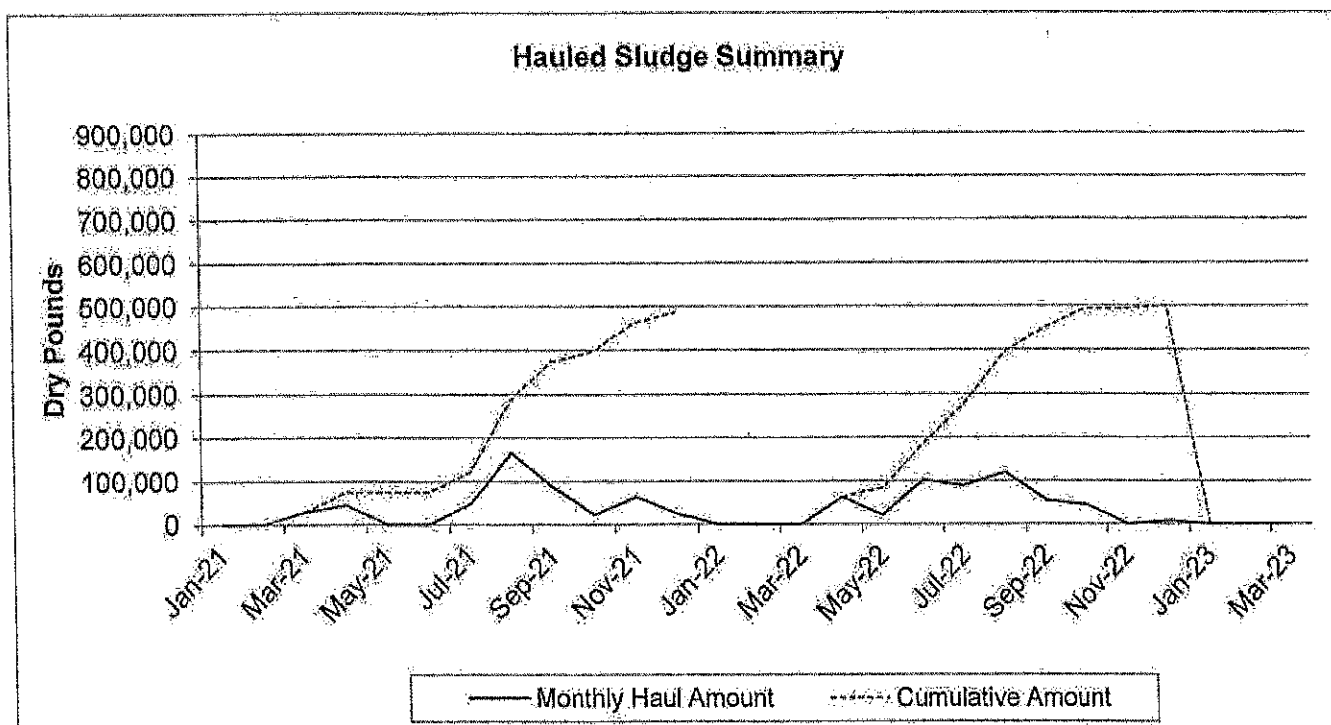
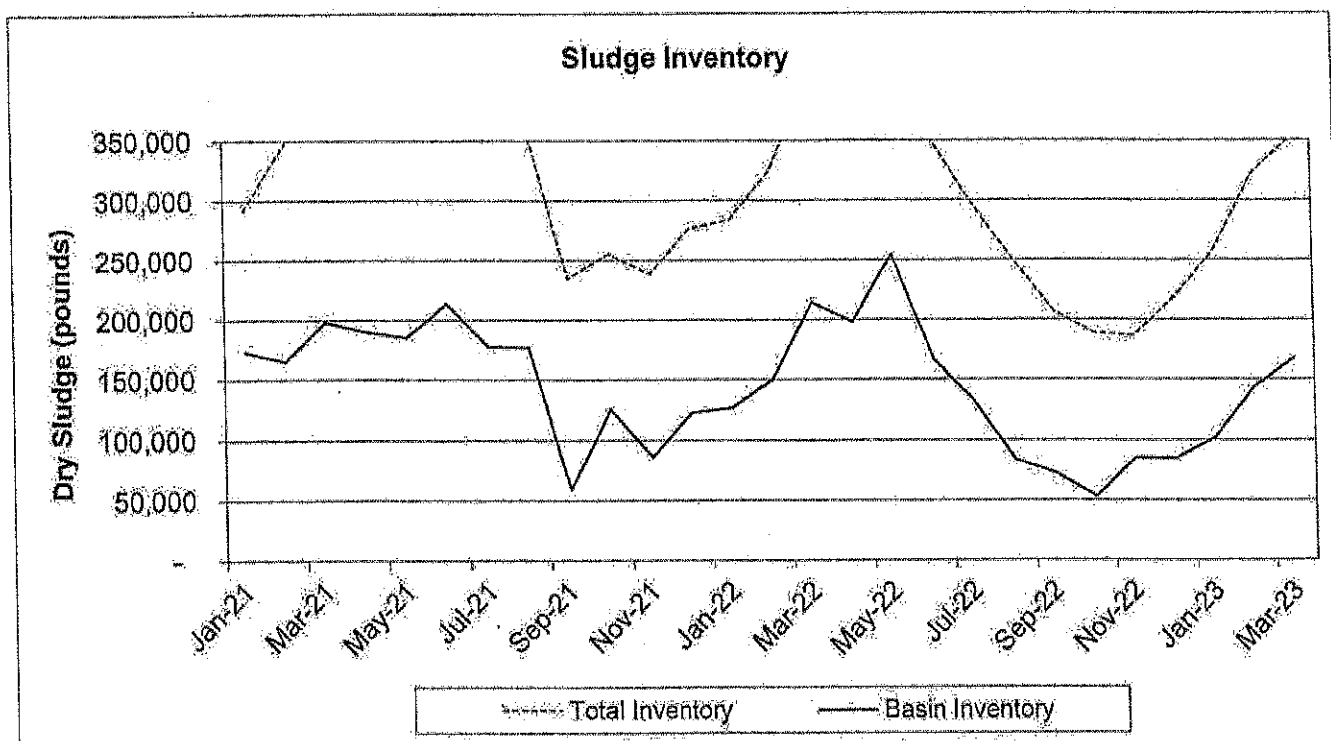
2021	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL	%
January	6.0	28,107,000 85%	4,855,000 15%	32,962,000	100%
February	3.0	22,136,000 85%	4,048,000 15%	26,184,000	100%
March	4.0	32,848,000 84%	6,450,000 16%	39,298,000	100%
April	5.2	30,179,000 84%	5,792,000 16%	35,971,000	100%
May	5.2	37,964,000 84%	7,479,000 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	23,041,000 82%	5,317,000 18%	30,358,000	100%
	52.2	403,341,000 84%	74,860,000 16%	478,201,000	100%
2022	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL	%
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%
2023	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL	%
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					
May					
June					
July					
August					
September					
October					
November					
December					
	12.9	79,340,000 87%	12,191,000 13%	91,531,000	100%



	Hauled Sludge				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-21	0	-	0	4.4%	-
Feb-21	0	-	0	4.4%	-
Mar-21	23	85,100	28,883	4.1%	28,883
Apr-21	39	144,300	45,269	3.8%	74,152
May-21	0	-	0	3.8%	74,152
Jun-21	0	-	0	3.8%	74,152
Jul-21	40	144,000	47,378	3.9%	121,530
Aug-21	153	650,800	166,363	3.5%	287,893
Sep-21	92	331,200	87,228	3.2%	375,119
Oct-21	17	61,200	22,698	4.4%	397,817
Nov-21	46	165,600	53,621	4.6%	461,438
Dec-21	16	57,600	24,138	5.0%	485,577
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%	-

Basin Depths					# Dry
Tank #1	Tank #2	AB #1	Basin	Gallons	
7.0	3.5	0.0		472,500	173,389
5.0	5.0	0.0		450,000	165,132
6.0	7.0	0.0		585,000	199,549
6.0	7.5	0.0		607,500	190,582
6.0	7.0	0.0		585,000	185,398
7.0	8.0	0.0		675,000	213,921
6.0	7.0	0.0		540,000	177,668
7.0	6.0	0.0		585,000	176,693
2.0	3.0	0.0		225,000	59,267
3.5	4.0	0.0		337,500	125,173
3.0	2.0	0.0		225,000	86,442
4.0	2.5	0.0		292,500	122,581
4.5	3.0	0.0		337,500	128,664
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	198,256
8.5	7.0	0.0		697,500	254,503
7.0	4.0	0.0		495,000	167,049
7.0	2.5	0.0		427,500	132,051
2.0	4.0	0.0		270,000	83,629
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		292,500	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

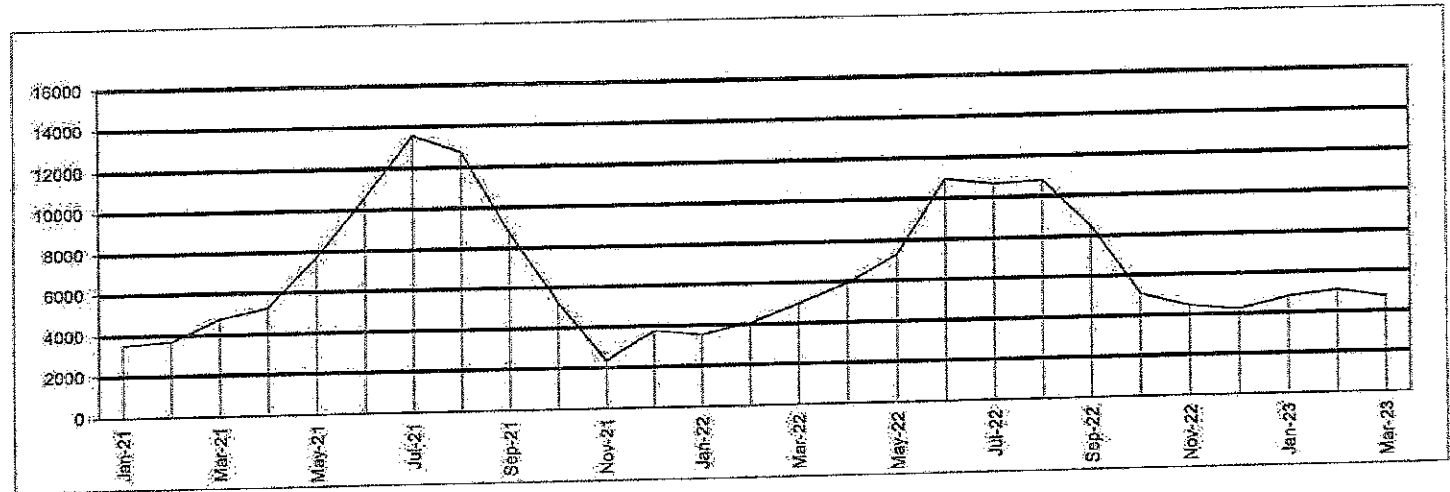
Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0039	292,077	83	206,500
5.0	8.0	0.0	5,490	5,759	3,630,906	179,658	0.00562	344,690	28	69,500
2.0	5.0	0.5	6,830	6,330	3,746,043	205,573	0.00658	404,122	32	70,000
12.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957	22	52,000
13.0	14.0	1.0	6,200	6,330	4,123,002	215,427	0.00627	400,825	48	128,500
6.0	7.5	2.0	7,260	8,060	3,926,643	234,903	0.00717	448,824	63	151,500
7.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823	457,007	117	289,000
1.0	1.0	0.5	6,160	5,640	3,657,236	183,008	0.0060	359,701	68	163,000
1.0	1.0	0.5	5,320	6,180	3,657,236	175,383	0.0058	234,640	62	159,500
1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043	255,554	34	80,000
0.5	1.0	0.0	5,130	4,980	3,625,643	162,138	0.0050	238,580	37	83,000
1.0	1.0	0.0	4,540	5,630	3,635,524	154,179	0.0051	276,758	27	62,000
1.0	3.5	0.0	5,080	5,180	3,679,929	157,136	0.0051	283,800	13	27,000
4.0	1.5	0.0	6,280	5,030	3,687,691	174,393	0.0057	324,513	32	68,000
9.0	10.0	0.0	5,870	5,760	3,937,478	190,464	0.0058	405,135	23	48,000
10.0	10.0	1.0	7,100	5,600	3,998,668	211,785	0.0064	410,021	52	124,500
2.0	10.0	1.0	6,290	6,630	3,856,572	207,778	0.0065	462,281	37	85,000
4.5	0.5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297	42	93,500
8.0	3.0	1.5	4,740	5,850	3,860,524	168,296	0.0052	298,348	33	68,600
1.5	1.0	0.5	5,490	5,420	3,666,119	166,789	0.0055	250,418	169	300,000
1.0	1.0	0.5	4,850	4,160	3,657,238	134,359	0.0044	207,251	76	168,000
0.5	0.5	0.5	4,590	4,390	3,638,476	136,286	0.0045	189,149	33	71,000
1.0	1.0	0.0	4,330	2,340	3,635,324	101,573	0.0034	166,954	38	89,500
1.5	1.5	0.0	4,510	4,270	3,653,286	133,786	0.0044	216,479	33	71,500
1.0	1.0	0.0	4,880	5,380	3,635,524	156,543	0.0051	267,625	35	74,500
2.0	2.0	0.0	6,080	5,570	3,671,048	177,882	0.0058	321,997	38	87,500
1.0	2.0	1.0	5,310	6,640	3,686,714	184,213	0.0060	352,347	50	115,500



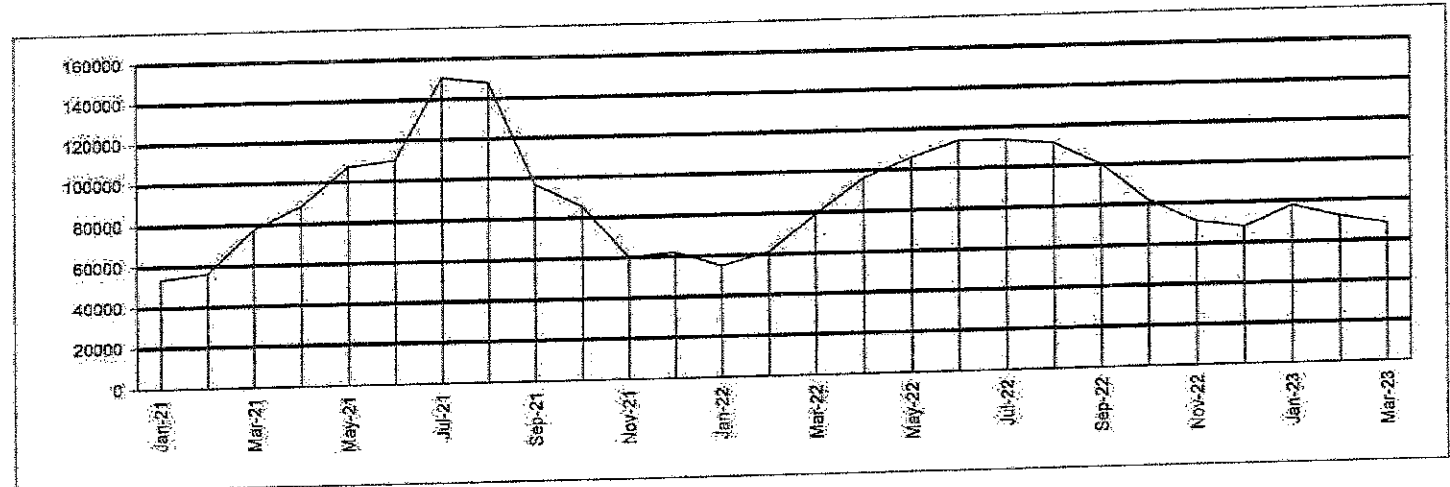
Electric Cost Kilowatts Used

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

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							
Mar-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	7.5			9.5	13.0	1.428	8.0			0.02	11.1		13.1			
2	7.7	388	392		11.6	1.320	8.2	2.4	1.5		11.6		11.0	99.4	99.6	
3	7.1				11.5	1.879	7.5				10.4		11.3			
4	7.0				10.9	2.423	7.5				10.8		10.1			
5	6.9				11.9	1.723	7.7				10.9		11.5			
6	7.0				12.6	1.517	7.6				10.5		12.8			
7	7.6			17.4	13.5	1.535	7.9			0.04	11.0		13.2			
8	7.9	260	278		12.6	1.538	8.0	1.8	1.3		11.3		12.3	99.3	99.5	
9	7.5				12.6	1.808	7.8				10.7		12.3			
10	7.1				11.5	1.501	8.2				11.0		11.1			
11	7.7				11.6	1.621	8.1				11.1		10.6			
12	7.7				11.8	1.612	8.1				11.1		11.9			
13	7.5				11.4	1.637	8.0				11.3		10.1			
14	7.3			24.7	13.2	1.379	7.9			0.12	11.5		10.3			
15	7.4	260	246		12.3	1.518	8.1	2.6	2.1		11.1		10.6	99.0	99.1	
16	7.7				13.9	1.478	8.3				11.1		13.3			
17	7.7				9.6	1.552	8.2				11.0		9.2			
18	6.9				10.8	1.482	8.0				11.3		9.3			
19	7.0				10.0	1.681	7.6				11.6		7.8			
20	7.1			25.6	11.1	1.489	7.7			0.02	11.4		8.8			
21	7.1				12.0	1.453	7.8				10.9		10.2			
22	7.6				14.3	1.498	8.0				11.1		13.0			
23	7.7	268	280		16.7	1.480	8.1	4.2	3.6		11.3		16.2	98.4	98.7	
24	7.7				12.4	3.443	8.1				11.1		13.1			
25	7.7				13.1	2.573	8.2				11.1		12.0			
26	7.7				13.5	1.903	8.2				11.1		13.6			
27	7.5				15.3	1.681	8.2				11.1		15.1			
28	7.7				15.2	1.538	7.6				11.1		13.5			
29	7.1			29.3	13.2	1.562	8.0			0.09	11.1		12.7			
30	7.8				14.2	1.140	7.8				11.1		13.6			
31	7.6	263	422		16.3	1.513	8.2	2.7	2.0		11.1		16.0	99.0	99.5	
Total						51.905										
Avg		288	324	21.3	12.7	1.674		2.7	2.1	0.06	11.1	0.0	11.9	99.0	99.3	
Min	6.9	260	246	9.5	9.6	1.140	7.5	1.8	1.3	0.02	10.4	0.0	7.8	98.4	98.7	
Max	7.9	388	422	29.3	16.7	3.443	8.3	4.2	3.6	0.12	11.6	0.0	16.2	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	2.88	≤0.13	23.1					5.09	43.4	≤0.03
2										
3										
4										
5										
6										
7										
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28										
29										
30										
31										
Total	2.88	≤0.13	23.1					5.09	43.4	≤0.03
Avg	2.88	≤0.13	23.1					5.09	43.4	≤0.03
Min	2.88	≤0.13	23.1					5.09	43.4	≤0.03
Max	2.88	≤0.13	23.1					5.09	43.4	≤0.03

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

DATE Mar-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	** MLSS	*Settleability		* DO	** MLSS	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
		mg/l	mg/l	ml	° C	mg/l	mg/l	ml	° C			
1		2.3	5,810	690	12.5	3.1	5,880	690	12.7	42	0	7:30
2		4.1	5,400	510	12.0	2.2	5,670	720	12.3	40	0	7:30
3		1.3	5,880	670	11.2	1.5	4,970	450	11.2	47	1.3	7:30
4		2.8	5,560	660	10.4	3.0	5,530	640	10.4	35	0.5	7:30
5		3.6	5,580	640	11.5	3.1	5,340	680	11.4	37	0	7:30
6		1.4	6,350	750	13.0	2.4	5,450	610	12.8	52	0	7:30
7		1.1	7,060	800	13.4	3.1	6,950	490	12.9	45	0	7:30
8		1.4	6,790	780	13.3	2.1	5,330	610	13.5	47	0.7	7:30
9		2.5	4,300	670	12.3	1.9	6,030	750	12.2	47	0	7:30
10		1.3	6,230	780	12.2	3.3	5,540	650	12.0	41	0	7:30
11		2.2	6,520	790	11.3	4.1	5,410	690	11.6	43	0	7:30
12		1.4	4,720	460	11.9	2.1	4,020	380	11.9	42	0.25	7:30
13		2.2	6,260	790	10.5	5.1	4,700	520	10.8	34	0	7:30
14		3.5	5,880	770	10.4	4.6	6,180	800	10.9	36	0	7:30
15		3.1	6,890	850	10.7	5.1	5,750	730	10.6	64	0	7:30
16		1.4	6,290	790	12.8	3.1	5,140	620	12.5	51	0	7:30
17		1.2	5,930	740	10.7	2.1	4,140	400	11.2	26	0.25	7:30
18		1.4	4,100	460	9.7	3.1	5,450	700	9.6	24	0	7:30
19		4.1	4,480	600	8.8	5.1	6,660	830	8.7	35	0	7:30
20		3.6	5,620	750	8.8	1.5	6,610	850	8.9	29	0	7:30
21		2.6	6,070	800	10.3	3.1	5,150	690	10.3	48	0.1	7:30
22		1.3	6,160	740	13.5	2.1	6,380	640	13.0	52	0.5	7:30
23		1.1	6,860	770	14.9	1.4	5,690	690	14.6	66	0	7:30
24		1.1	6,010	760	13.4	2.1	5,850	730	13.6	48	1.4	7:30
25		1.1	5,610	710	13.1	2.1	5,510	690	13.4	40	0.5	7:30
26		2.1	6,470	770	13.9	2.2	5,550	700	13.7	42	0	7:30
27		1.3	6,920	800	14.8	2.1	5,390	620	15.0	44	0.25	7:30
28		1.1	7,090	840	14.5	2.1	6,180	740	14.1	42	0.25	7:30
29		2.1	6,110	740	12.2	1.4	6,940	820	12.4	35	0	7:30
30		2.0	5,590	680	13.5	2.1	6,290	780	13.7	43	0	7:30
31		2.1	5,310	650	15.2	1.3	6,640	800	16.3	60	0.2	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	4/11/2023
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	4/11/2023

*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	
3/1/23	3/31/23
NOD:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	3.443	1.674	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	*****	4.2	2.7	mg/L	*****	*****	*****
Mon. Location: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							
Total Suspended Solids (TSS)	*****	3.6	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)	2.88	*****	2.88	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)	<0.13	*****	<0.13	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)	23.1	*****	23.1	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)	0.12	*****	0.06	mg/L	*****	*****	*****
Mon. Location: End of Pipe	Daily Max.:12.1	*****;*****	Monthly Avg.:3.1		*****;*****	*****;*****	
Sample Type: 24 Hour Composite							
Frequency: Weekly							

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WWTP-1
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Jefferson City, MO, 65102

pH	7.5	*****	8.3	SU	*****	*****	*****
Mon. Location: End of Pipe	Minimum: 6.0	*****	Maximum: 9.0		*****	*****	
Sample Type: Grab							
Frequency: Weekly							
BOD, 5-day, percent removal	*****	*****	98.4	%	*****	*****	*****
Mon. Location: End of Pipe	*****	*****	Monthly Avg. Min.: 85		*****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	98.7	%	*****	*****	*****
Mon. Location: End of Pipe	*****	*****	Monthly Avg. Min.: 85		*****	*****	
Sample Type: Calculated							
Frequency: Monthly							
Comments:							

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

Central Field Operations
P O Box 178
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	INFIM
Monitoring Period	
5/1/23	5/31/23
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
BOD, 5-day, 20 deg. C	*****	*****	288	mg/L	*****	*****	*****	
Mon. Location: Influent	*****	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Total Suspended Solids (TSS)	*****	*****	324	mg/L	*****	*****	*****	
Mon. Location: Influent	*****	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Nitrogen, ammonia total (as N)	29.3	*****	21.3	mg/L	*****	*****	*****	
Mon. Location: Influent	Daily Max.: Monitoring Required	*****	Monthly Avg.: Monitoring Required		*****	*****		
Sample Type: 24 Hour Composite								
Frequency: Monthly								
Phosphorus, total (as P)	5.09	*****	5.09	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)	43.4	*****	43.4	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)	<0.03	*****	<0.03	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
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State of Missouri
Department of Natural Resources
National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

Central Field Operations
P O Box 178
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 Hatcher	Submission Date April 12, 2023	User Phone Number (573)365-0455
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FOR MARCH	2021
month	year

Use following abbreviations: P-rain; S-snow; C-overcast; C-clear; PC-partly cloudy

Date 14/11/2023