

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
MARCH 16 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Gerry Murawski
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Osage Beach, Phyllis Marose
Alderman, Lake Ozark, Judy Neels
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: February 16, 2021

3-4

4. REPORTS

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February Alliance Report of Operations	15-35
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Approval of Flow Charts February 2021

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE APRIL 20, 2021 4:00 PM @ LAKE OZARK CITY HALL

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**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – February 16, 2021

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, February 16, 2021, via Zoom at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present via Zoom
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods – Present via Zoom
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Phyllis Marose- Present via Zoom
Alderman Lake Ozark, Judy Neels- Absent
Public Works Director Lake Ozark, Matt Michalik – Absent
Resident Member, Mr. Gary Hamner – Present via Zoom

MINUTES:

Member Hamner motioned to approve the meeting minutes of January 19, 2021. His motion was seconded by Alderman Marose and passed unanimously.

REPORTS:

The January Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Mayor Murawski to approve the documents and pay the bills. His motion was seconded by City Administrator Woods and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for January was 1.063 mgd. We had 6.0 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 3.2 mg/l and TSS of 2.6 mg/l respectively for January, which represents a 98.6% or better removal.

The MLSS average for both aeration basins was 7,757 mg/l. The total dry weight sludge inventory for January totaled 292,077 pounds. There were 83 tanker loads or 205,500 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Van Dee to approve the Flow Chart for January. His motion was seconded by City Administrator Woods. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Board Representative Update: None at this time.
- B. Discussion regarding the updated inventory list: Mr. Hutchcraft reviewed the inventory list and explained which items were removed and for what reason. It was noted that no action was required as the inventory list was addressed in the Alliance Contract.
- C. Continued discussion regarding the sludge truck. Mayor Olivarri noted that an email vote was taken after the January meeting regarding the additional cost for the new sludge truck. The additional cost was approved. The build date for the new truck is scheduled for April 29th.

NEW BUSINESS:

- A. Discussion regarding a maintenance agreement for the standby generator. Mr. Hutchcraft advised that three bids were received for the maintenance agreement for the standby generator. The bids were received from Mike's Inc.(\$2,149.12); Clifford Power (\$1,583.31); and Martin Energy Group (\$1,357.22). After discussion, a motion was made by Mayor Murawski to accept the bid from Martin Energy Group. His motion was seconded by Alderman Marose, and was unanimously approved.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:14 pm.

Approved on:

Mayor, John Olivarri

City Clerk, Kathy Vance

JOINT SEWER BOARD
BILL LIST
MARCH 16, 2021

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	41,139.77
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-
TOTAL	\$	41,139.77

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020				\$ -
				\$ -
			TOTAL	\$ -

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	378	Equipment Replacement Fund	Payment into ER Fund	\$ 10,134.00
4020	379	Industrial Weighting E	210105 Calibration of lab scales & weights	\$ 159.20
4020	380	Majestic Franchising	March	\$ 196.17
4020	381	Grainger	225554 Switch for bar screen control panel	\$ 94.93
4020	381	Grainger	908447 Timer for bar screen control panel	\$ 81.46
4020	382	Menards	8763 Pipe insulation for RAS sump	\$ 7.89
4020	382	Menards	8799 Return Pipe Insulation	\$ (7.89)
4020	382	Menards	8800 Foam Tape Insulation for RAS	\$ 9.58
4020	382	Menards	9447 Copper cap for water line	\$ 1.38
4020	382	Menards	9524 Clamp, cap & sandpaper	\$ 24.35
4020	382	Menards	9679 Garden hose & washers	\$ 45.96
4150	383	M/C Kwik Kar	2/24/2021 Ford F-250	\$ 94.00
4020	383	M/C Riback	7167240 Insulation for RAS sump drain	\$ 12.31
4020	384	Smart Printing Ctr.	98517 Waste Hauling Tickets	\$ 66.40
4150	385	O'Reilly	322554 Return Radiator hose	\$ (35.60)
4150	385	O'Reilly	322864 Filter for sludge trk	\$ 12.48
4150	385	O'Reilly	344320 Wiper blades	\$ 63.77
4170	386	Alliance Water Resources, Inc.	March	\$ 25,720.00
4175	387	Ameren MO	11673321	\$ 3,481.93
4175	387	Ameren MO	98041275	\$ 214.45
4176	388	Ferrellgas	1114716421 Propane Plant	\$ 224.40
4176	388	Ferrellgas	1114716423 Propane Office	\$ 394.54
4176	389	AT&T	March	\$ 93.09
4176	390	Republic	March	\$ 50.97
			TOTAL	\$ 41,139.77

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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



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

AMOUNT DUE \$3,481.93

Due Date 04/01/2021

Current Detail for Statement 03/11/2021

Total Electric Charges \$3,481.93

Amount After Due Date \$3,534.16

Total Amount Due \$3,481.93

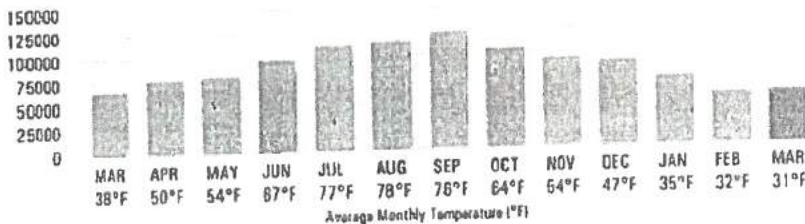
Previous Statement \$3,428.25

Total Payments \$3,428.25

Payment Received. Thank You.

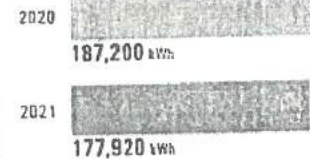
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

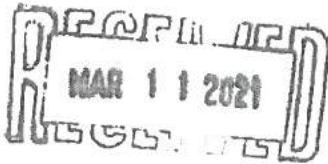
So far this year, you're using 5% less than last year.



Usage from Jan-Mar for 2020 & 2021

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GL Acct#: 4175

Signature: *Hayden Hutchings*

Date: 3/11/21

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Amount Due	Due Date
\$3,481.93	April 01, 2021
Delinquent Amount After Due Date	Account Number
\$3,534.16	4580005832
Amount Enclosed \$	

>000208 6528521 0006 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1985
LAKE OZARK, MO 65049-1985

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

80600000 0045800058302 000003481930 000003481930



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Electric Service Details Service from 02/08/2021 : 03/09/2021 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	02/08 - 03/09	29	Total kWh	Actual	64820.0000	64485.0000	335.0000	160.0000	53600.0000
11673321	02/08 - 03/09	29	Peak kW	Actual	0.9360	0.0000	0.9360	160.0000	149.7600

Usage Summary

Total kWh	53600.0000	Peak kW	149.8000
Total Billing Demand	149.8000	October Winter Base kW	176.2000
Winter Base Demand	149.8000	Base kWh Ratio	1.0000
Base kWh (HUD)	53600.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	@ \$ 0.03560000	\$0.00
Demand Charge	149.80	kW	@ \$ 2.00000000	\$299.60
Base Energy Charge / Hours Used	22,470.00	kWh	@ \$ 0.06090000	\$1,368.42
Base Energy Charge / Hours Used	29,960.00	kWh	@ \$ 0.04520000	\$1,354.19
Base Energy Charge / Hours Used	1,170.00	kWh	@ \$ 0.03560000	\$41.65
Customer Charge				\$95.29
Fuel Adjustment Charge	53,600.00	kWh	@ \$ 0.00026000	\$13.94
Energy Efficiency Investment Charge	53,600.00	kWh	@ \$ 0.00559200	\$299.73
Renewable Energy Adjustment	53,600.00	kWh	@ \$ 0.00017000	\$9.11
Total Service Amount				\$3,481.93
Total Electric Charges				\$3,481.93

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
February 22, 2021	\$3,428.25

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

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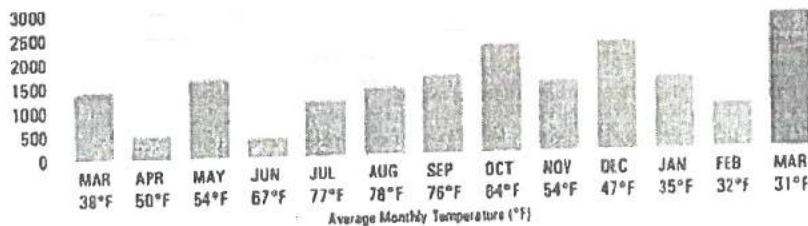
Account Number 5580005920
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

AMOUNT DUE \$214.45
Due Date 04/01/2021
Amount After Due Date \$217.67
Previous Statement \$95.58
Total Payments \$95.58
Payment Received. Thank You.

Current Detail for Statement 03/11/2021
Total Electric Charges \$214.45
Total Amount Due \$214.45

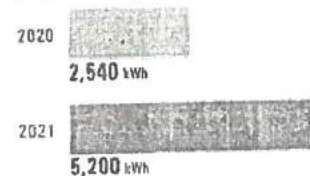
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

This shows how much electric energy you've used this year compared to last year.

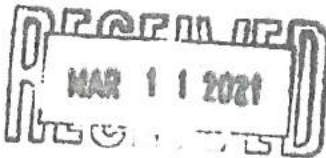


Usage from Jan-Mar for 2020 & 2021

13073 00375 6528521 000672 001343 0001/0002

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GL Acct#: 4175
Signature: [Signature]
Date: 3/11/21

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Amount Due	Due Date
\$214.45	April 01, 2021
Delinquent Amount After Due Date	Account Number
\$217.67	5580005920
Amount Enclosed \$	

>000375 6528521 0006 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1985
LAKE OZARK, MO 65049-1985

AMEREN MISSOURI
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90633000 0055800059200 000000214450 000000214450



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Electric Service Details Service from 02/08/2021 - 03/09/2021 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	02/08 - 03/09	29	Total kWh	Actual	21623.0000	21346.0000	277.0000	10.0000	2770.0000
98041276	02/08 - 03/09	29	Peak kW	Actual	4.4350	0.0000	4.4350	10.0000	44.3500

Usage Summary

Total kWh	2770.0000	Winter Base kWh	1600.0000
Current Base kWh	1600.0000	Seasonal kWh	1170.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	1,600.00	kWh	@ \$ 0.07790000	\$124.64
Seasonal Energy Charge	1,170.00	kWh	@ \$ 0.04490000	\$52.53
Customer Charge				\$19.99
Fuel Adjustment Charge	2,770.00	kWh	@ \$ 0.00026000	\$0.72
Energy Efficiency Investment Charge	2,770.00	kWh	@ \$ 0.00591100	\$16.10
Renewable Energy Adjustment	2,770.00	kWh	@ \$ 0.00017000	\$0.47
Total Service Amount				\$214.45
Total Electric Charges				\$214.45

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
February 22, 2021	\$95.58

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

		2/28/2021					Percent YTD
Account Number	Account Name	2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 2/28/2021	2021 February Revenue	
3020	Osage Beach	475,091.53	475,836.10	473,000.00	77,743.16	39,053.96	16%
3010	Lake Ozark	74,908.46	74,163.90	77,000.00	13,923.51	6,779.38	18%
3030	Misc.	0.00	4,500.00	0.00	0.00	0.00	0%
3100	Interest	4,286.79	4,019.49	2,000.00	1,107.81	555.68	55%
3060	Waste Haulers' Fee	26,260.00	39,320.00	36,000.00	11,000.00	2,780.00	31%
Total Operating Fund		580,546.78	597,839.49	588,000.00	103,774.48	49,169.02	18%
E/R Fund Income		9,001.77	8,955.85	6,000.00	1,735.30	839.01	29%
TOTAL INCOME		589,548.55	606,795.34	594,000.00	105,509.78	50,008.03	18%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
2/28/2021

Account Number	Account Name	2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 2/28/2021	2021 February Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.00	71,604.00	121,606.00	20,268.00	10,134.00	17%
4020	*Maintenance & Repair	104,062.97	26,299.39	35,800.00	70,655.93	58,752.91	192%
4140	Insurance	18,761.00	19,865.00	19,200.00	0.00	0.00	0%
4150	Vehicle Repair/Main	5,479.60	12,479.74	8,000.00	17.98	0.00	0%
4170	Contract Management	299,592.00	305,580.00	314,752.00	51,440.00	25,720.00	16%
4175	Electric	73,276.87	75,077.36	75,000.00	7,533.33	3,523.83	10%
4176	Utilities Misc.	3,717.52	2,485.59	3,500.00	964.66	845.42	28%
4190	Bank Charges	176.00	32.60	0.00	0.00	0.00	0%
4200	Audit	2,400.00	2,648.50	2,600.00	0.00	0.00	0%
4240	Capital Purchases	145,247.00	0.00	500.00	0.00	0.00	0%
	Totals	694,316.95	516,072.18	581,958.00	150,879.90	108,976.16	26%
	**E/R Expenses	41,280.51	65,258.27	221,000.00	12,396.60	5,535.00	6%
	TOTAL EXPENSES	735,597.47	601,330.45	802,958.00	163,276.50	114,511.16	20%

2020 CARRY

<u>*Maintenance & Repair</u>		<u>**Equipment & Replacement</u>	
Accounting - QuickBooks	300.00	Replace Pista Gril Cart w/machine work	3,000.00
Auto Dialer Yrly Software Fee	500.00	Replace wooden doors w/fiberglass	2,000.00
Regular Maintenance	15,000.00	Rebuild 3 RAS pumps	10,000.00
UV Spare Parts	10,000.00	Replace lawn mower	6,000.00
Ducking skimmer arm Elec repair	5,000.00	Sludge Truck	200,000.00
Rock for Road	2,000.00		-
Chain-link fence repair	4,000.00		-
Sandblast & paint clarifier #2			-
			-
	<u>36,800.00</u>		<u>221,000.00</u>

OPERATING FUND INCOME AND EXPENSE SUMMARY
2/28/2021

Beginning Balance	355,018.50
Income - Osage Beach	39,053.96
Income - Lake Ozark	6,779.38
Income - Other	-
Income - Waste Haulers' Fees	2,780.00
Interest - Checking	2.97
Income - CD Interest	555.68
Transfers From E/R Fund	-
Transfers to E/R Fund	(10,134.00)
Expenses	(98,842.16)
Ending Fund Balance	295,214.33
Central Bank - NOW Acct.	76,513.34
	-
CD First Bank of the Lake, 2/20/21 #101318432	106,545.48
CD First Bank of the Lake, 4/22/21 #101318433	112,155.51
	-
Outstanding Checks:	(47.51)
	295,166.82

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
2/28/2021

Beginning Balance	536,033.79
Interest - Checking	29.11
Income - CD Interest	1,367.52
Transfers to E/R Fund	10,134.00
Income - Miscellaneous	-
Expenses	(5,535.00)
Ending Fund Balance	542,029.42
First Bank of the Lake - Money Mkt.	168,324.49
CD First Bank of the Lake, 11/07/21 #101318434	270,000.00
CD First Bank of the Lake, 2/20/21 #101318431	-
CD First Bank of the Lake, 7/30/21 #101318430	108,704.93
	-
Outstanding Checks:	(5,000.00)
	542,029.42

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REPORT OF OPERATIONS

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

Month of February 2021

Submitted by Alliance Water Resources, Inc. for the

March 2021

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	Metals Selenium ug/L
Monthly Average	3.6	2.9	N/A	0.0		0.07	< 4.8	1.2
Peak Day	4.3	3.4	7.7	0.0		0.17	< 4.8	1.2
Percent Removal	98.2	98.9	N/A	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	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		2.2	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 0.935 MGD or 31% of Permitted flow with Lake Ozark contributing 15% of the total flow and Osage Beach contributing 85%. 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 44002 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 450,000 gallons with a level of 5.0 feet in Tank 1 and 5.0 feet in Tank 2.

WASTEHAULERS

The plant received 28 loads of septage during the month totaling 69,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We put Clarifier #2 back online on the 8th of February.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- The Clarifier paint contractor was here and put the final coat above the water level on 3rd, 4th & finished on 5th of February.
- We reinstalled the rebuilt ducking skimmer arm on Clarifier #2 on the 5th of February.
- Accurate Scale came in on the 8th of February to re-certify/calibrate the lab scales and weights.
- We took the sludge truck to Roemers to get it serviced on the 8th of February.
- We received a radio and shim card upgrade for the Mission auto dialer on the 15th of February and we installed it on the 17th.
- We noticed that bar screen #2 was not working properly in the auto mode so we troubleshoot it and found that the timer and a switch was bad in the control panel. We ordered replacements from Grainger.

SAFETY

- We conducted our monthly Safety Meeting on Bloodborne Pathogens & CPR Refresher on the 9th of February.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 4th of March.

MISCELLANEOUS AND RECOMMENDATIONS

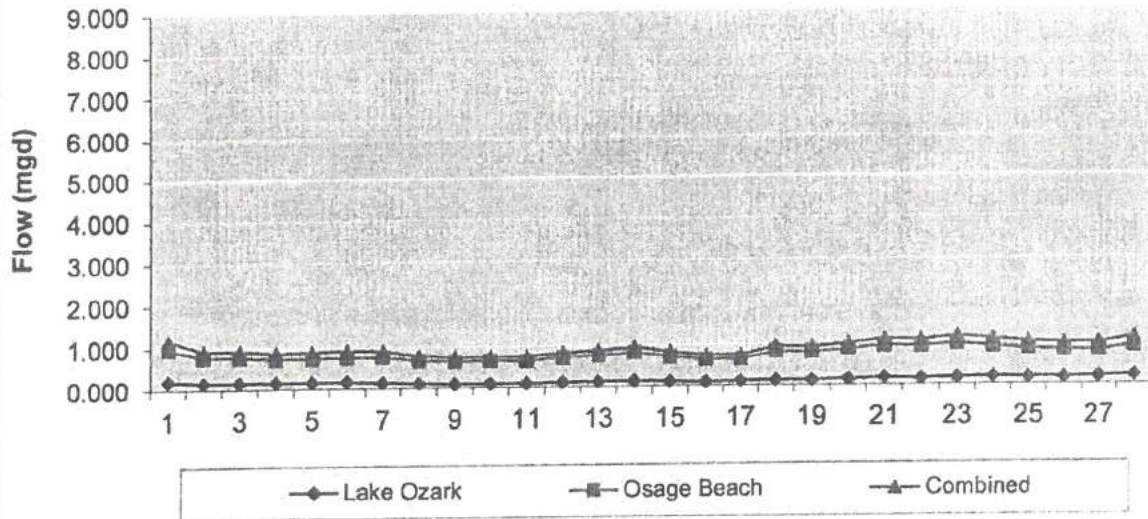
- We would like to Thank Matt and the City of Lake Ozark for sending their service truck out to assist us in the removing and replacing of the ducking skimmer on Clarifier #2. Many Thanks!

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF February 2021

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Feb	0	0.209	0.983	1.192	17.5	82.5						
2-Feb	0	0.158	0.774	0.932	17.0	83.0						
3-Feb	0	0.156	0.773	0.929	16.8	83.2						
4-Feb	0	0.153	0.722	0.875	17.5	82.5	140	203	185	72	136	310
5-Feb	0	0.160	0.731	0.891	18.0	82.0						
6-Feb	0	0.167	0.757	0.924	18.1	81.9						
7-Feb	0.25	0.144	0.764	0.908	15.9	84.1						
8-Feb	0	0.119	0.665	0.784	15.2	84.8						
9-Feb	0	0.100	0.637	0.737	13.6	86.4						
10-Feb	0.25	0.098	0.653	0.751	13.0	87.0						
11-Feb	0.25	0.100	0.640	0.740	13.5	86.5						
12-Feb	0.25	0.115	0.718	0.833	13.8	86.2	213	215	218	106	142	206
13-Feb	0	0.123	0.751	0.874	14.1	85.9						
14-Feb	0.25	0.132	0.818	0.950	13.9	86.1						
15-Feb	0	0.116	0.717	0.833	13.9	86.1						
16-Feb	0.5	0.099	0.639	0.738	13.4	86.6						
17-Feb	0.25	0.109	0.641	0.750	14.5	85.5						
18-Feb	0.25	0.125	0.822	0.947	13.2	86.8						
19-Feb	0	0.117	0.804	0.921	12.7	87.3	133	183	198	72	140	238
20-Feb	0	0.139	0.873	1.012	13.7	86.3						
21-Feb	0	0.171	0.950	1.121	15.3	84.7						
22-Feb	0	0.152	0.935	1.087	14.0	86.0						
23-Feb	0	0.172	0.998	1.170	14.7	85.3						
24-Feb	0	0.188	0.922	1.110	16.9	83.1						
25-Feb	0	0.169	0.860	1.029	16.4	83.6						
26-Feb	0	0.169	0.838	1.007	16.8	83.2	155	183	205	106	152	264
27-Feb	0	0.182	0.825	1.007	18.1	81.9						
28-Feb	0.5	0.206	0.926	1.132	18.2	81.8						
SUM	3.0	4.048	22.136	26.184								
AVG		0.145	0.791	0.935	15	85	160	196	202	89	143	255
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

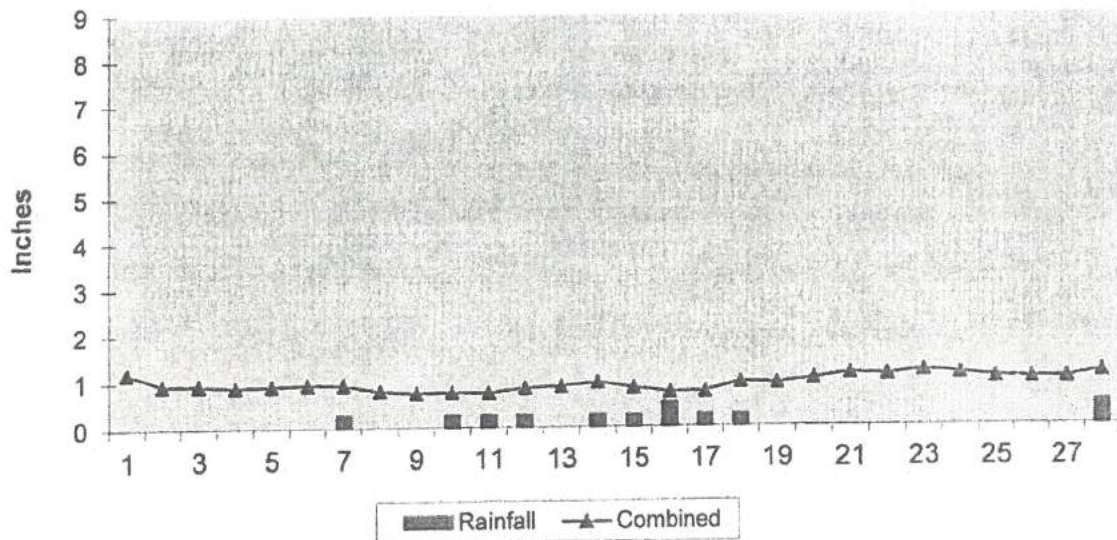
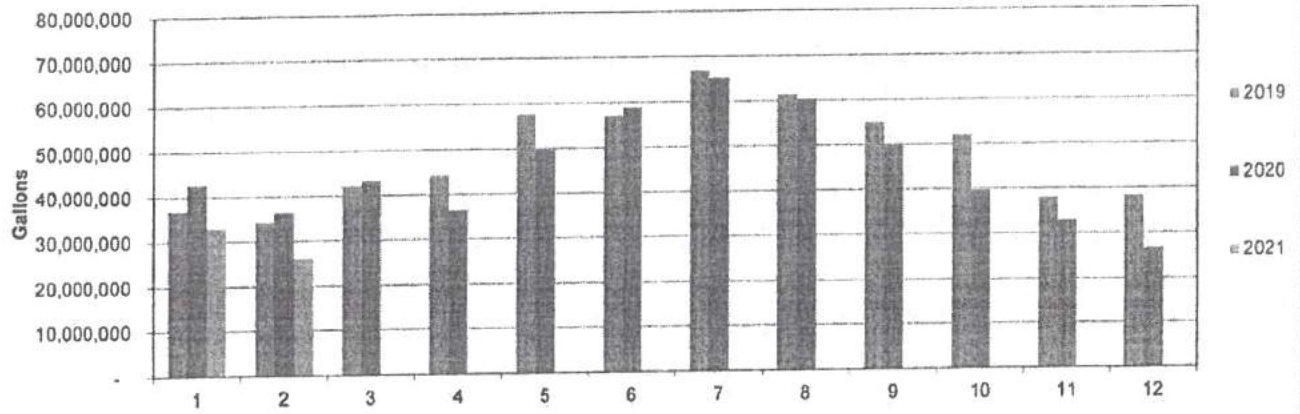


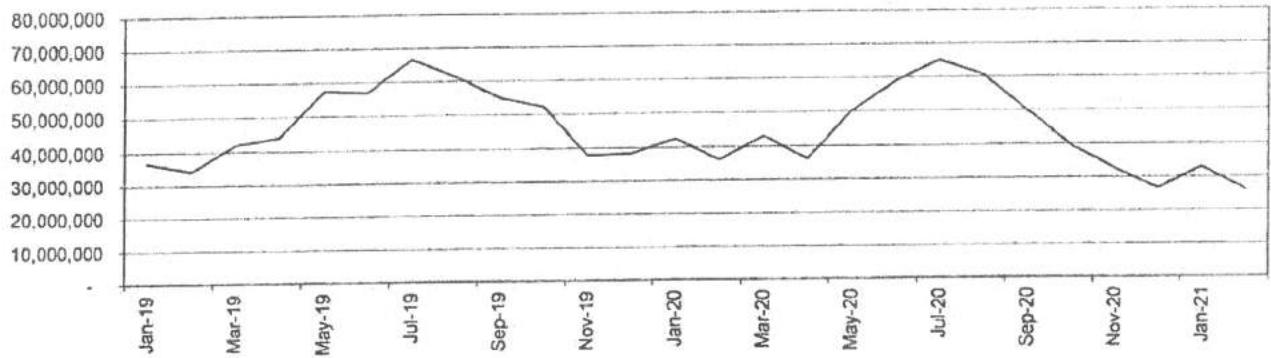
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June	6.0	49,051,000	86%	7,864,000	14%	56,915,000	100%
July	4.8	57,666,000	86%	9,132,000	14%	66,798,000	100%
August	6.0	53,074,000	87%	8,215,000	13%	61,289,000	100%
September	3.5	47,732,000	87%	7,165,000	13%	54,897,000	100%
October	11.1	44,971,000	86%	7,194,000	14%	52,165,000	100%
November	3.5	33,141,000	87%	4,779,000	13%	37,920,000	100%
December	1.8	33,575,000	88%	4,708,000	12%	38,283,000	100%
	63.2	504,112,000	86%	78,759,000	13%	582,871,000	100%
<u>2020</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%
February	3.6	31,279,000	86%	4,986,000	14%	36,265,000	100%
March	6.1	37,286,000	86%	5,888,000	14%	43,174,000	100%
April	5.2	31,967,000	88%	4,324,000	12%	36,291,000	100%
May	5.3	43,538,000	87%	6,443,000	13%	49,981,000	100%
June	4.8	50,936,000	87%	7,780,000	13%	58,716,000	100%
July	6.9	56,437,000	87%	8,616,000	13%	65,053,000	100%
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%	39,621,000	100%
November	4.3	27,630,000	84%	5,102,000	16%	32,732,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	26,698,000	100%
	61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
<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							
April							
May							
June							
July							
August							
September							
October							
November							
December							
	9.0	50,243,000	85%	8,903,000	15%	59,146,000	100%

Monthly Influent Flow
Figure 3A

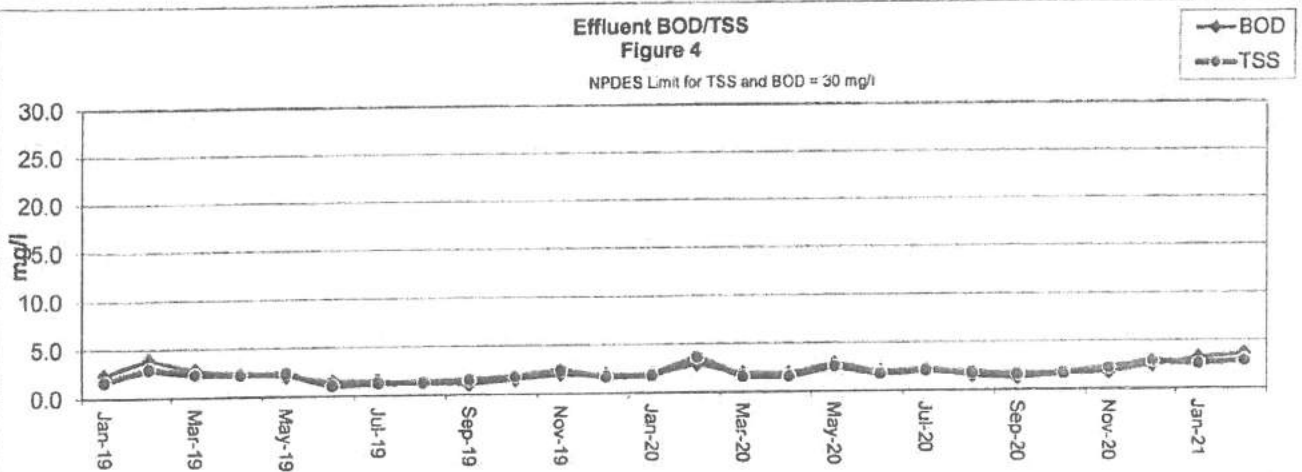


Monthly Influent Flow
Figure 3B

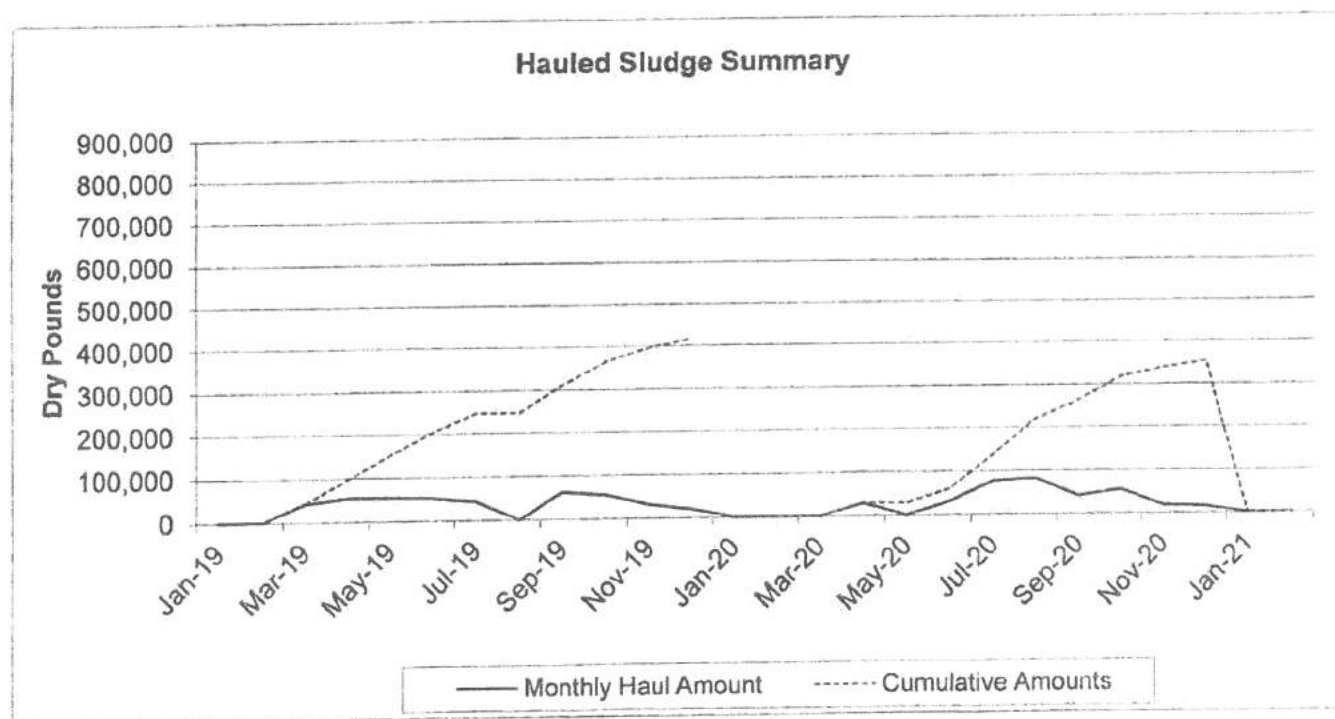
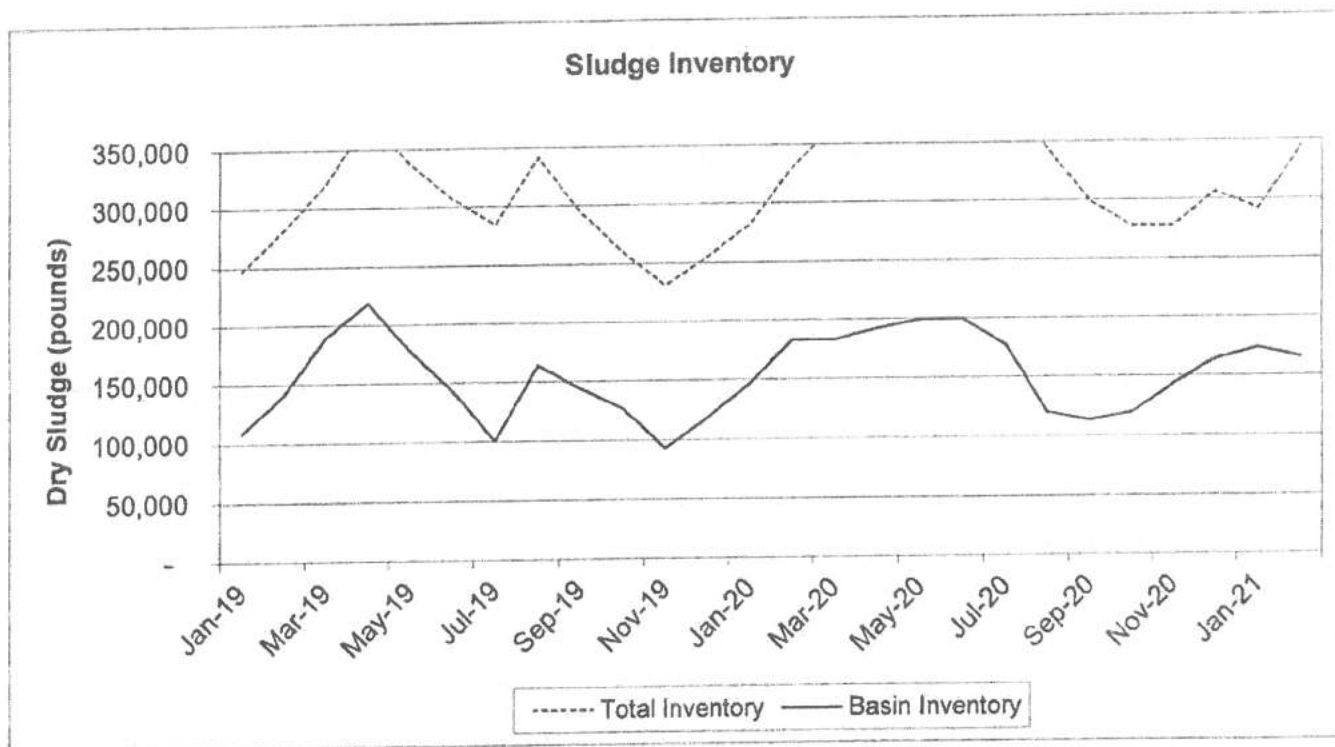


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



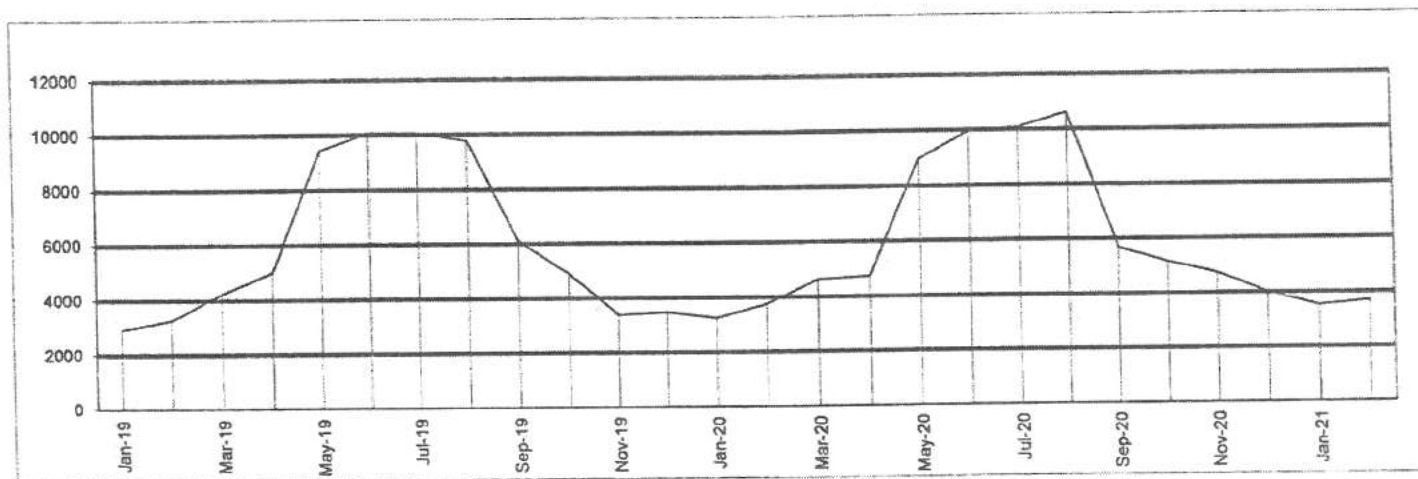
	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-19	0	-	0	3.4%		5.0	3.5	0.0	382,500	108,462	1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874	19	46,500
Feb-19	0	-	0	3.4%		6.0	5.0	0.0	495,000	140,362	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503	31	79,500
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	585,000	189,462	0.5	1.0	0.0	4,780	3,920	3,628,643	131,571	0.00435	321,033	9	21,500
Apr-19	39	144,300	53,940	4.5%	97,079	5.5	7.5	0.0	585,000	218,876	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923	23	61,500
May-19	48	181,300	54,866	3.6%	151,945	8.0	5.0	0.0	585,000	177,036	3.0	1.5	1.0	5,150	5,150	3,723,357	160,077	0.00516	337,113	12	25,500
Jun-19	44	162,800	51,872	3.8%	203,817	7.0	3.0	0.0	450,000	143,381	2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267	19	47,500
Jul-19	37	138,900	43,633	3.8%	247,450	3.0	4.0	0.0	315,000	100,397	2.0	3.0	0.5	6,060	5,830	3,710,524	183,973	0.00585	284,370	36	84,000
Aug-19	0	-	0	3.8%	247,450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	5,660	5,680	3,763,810	177,982	0.00567	341,988	29	72,500
Sep-19	58	214,800	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	4,480	5,310	3,696,714	150,607	0.00489	294,741	22	55,000
Oct-19	50	185,000	54,742	3.5%	364,679	7.5	2.0	0.0	427,500	126,498	2.5	3.0	1.0	4,170	4,350	3,741,119	132,918	0.00426	259,414	40	97,000
Nov-19	29	107,300	31,629	3.5%	396,308	3.5	3.5	0.0	315,000	92,853	3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,868	15	36,000
Dec-19	17	62,900	20,643	3.9%	418,951	6.0	2.0	0.0	360,000	118,148	1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044	14	32,000
Jan-20	0	-	0	3.9%	-	6.0	4.0	0.0	450,000	146,367	1.0	1.5	0.0	4,260	4,690	3,644,405	136,015	0.00448	282,382	16	34,100
Feb-20	0	-	0	3.9%	-	6.5	6.0	0.0	562,500	182,959	3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676	23	57,000
Mar-20	0	-	0	3.9%	-	5.5	7.0	0.0	562,500	182,959	2.0	5.0	1.0	5,780	5,940	3,767,762	183,825	0.00585	366,784	25	64,500
Apr-20	25	92,500	29,315	3.8%	29,315	6.0	7.5	0.0	607,500	192,528	1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742	39	107,000
May-20	0	-	0	3.8%	29,315	6.0	8.0	0.0	630,000	199,660	6.0	7.0	0.5	7,050	7,120	3,785,524	191,322	0.00608	390,981	35	83,000
Jun-20	25	92,500	31,660	4.1%	60,975	6.0	7.0	0.0	585,000	200,228	1.0	7.0	1.0	6,010	6,110	3,785,524	227,647	0.00709	427,875	6	18,000
Jul-20	69	255,300	77,268	3.6%	138,243	6.0	7.0	0.0	585,000	177,054	6.0	7.0	1.0	6,890	7,380	3,892,096	231,803	0.00714	408,655	88	208,000
Aug-20	76	281,200	83,286	3.6%	221,529	5.0	4.0	0.0	405,000	119,653	6.0	6.0	1.0	6,530	7,400	3,856,572	224,021	0.00697	343,974	67	158,000
Sep-20	38	140,600	41,627	3.5%	263,156	4.0	4.5	0.0	382,500	113,246	1.0	1.0	0.5	6,000	6,200	3,667,238	186,058	0.0061	299,304	45	104,500
Oct-20	45	166,500	55,298	4.0%	318,454	5.0	3.0	0.0	360,000	119,563	1.0	0.0	1.0	4,960	5,070	3,678,952	158,015	0.00515	277,578	16	32,000
Nov-20	18	66,600	19,255	3.5%	337,709	5.0	6.0	0.0	495,000	143,111	1.0	0.0	0.5	4,780	4,080	3,639,476	134,455	0.00443	277,576	16	36,000
Dec-20	11	40,700	14,843	4.4%	352,552	4.5	5.5	0.0	450,000	164,112	1.0	0.0	0.5	5,030	4,360	3,639,476	142,508	0.0047	306,620	33	69,000
Jan-21	0	-	0	4.4%	-	7.0	3.5	0.0	472,500	173,389	6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0038	292,077	83	205,500
Feb-21	0	-	0	4.4%	-	5.0	5.0	0.0	450,000	165,132	5.0	8.0	0.0	5,490	5,750	3,830,906	179,558	0.00582	344,890	28	69,500



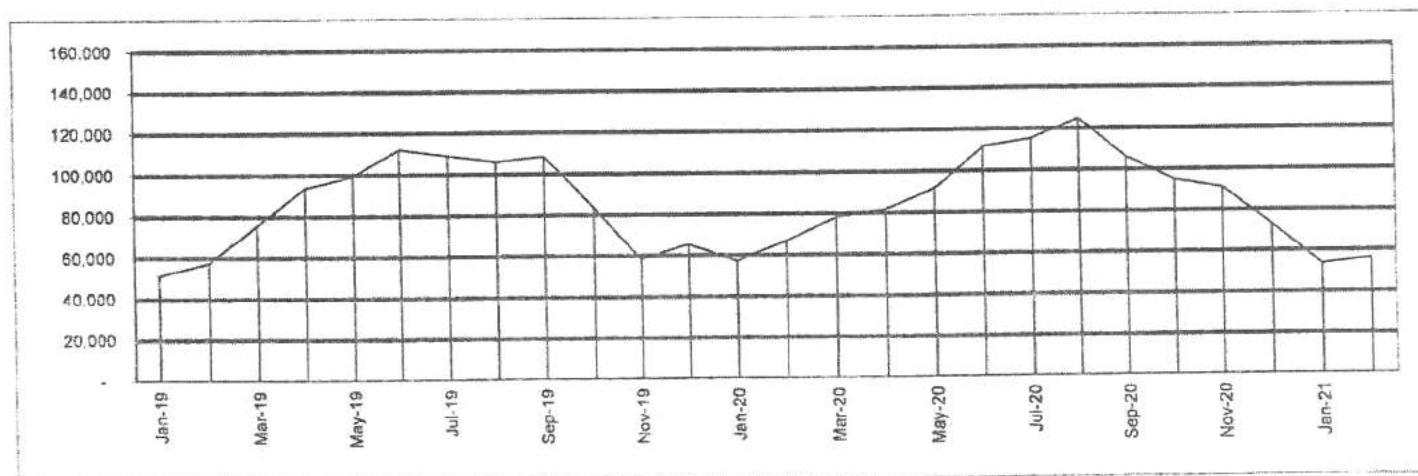
Electric Cost Kilowatts Used

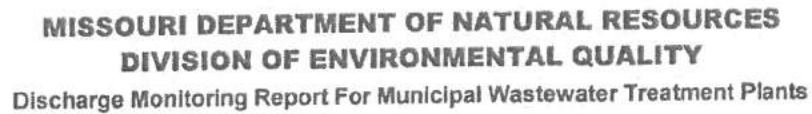
Jan-19	2926	51,490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330
Jun-19	10074	112,400
Jul-19	10066	109,190
Aug-19	9784	106,020
Sep-19	6115	108,680
Oct-19	4920	83,790
Nov-19	3390	58,410
Dec-19	3482	65,660
Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78,070
Apr-20	4741	81,780
May-20	8962	91,550
Jun-20	9959	111,680
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220
Oct-20	5155	94,870
Nov-20	4734	90,890
Dec-20	4009	73,020
Jan-21	3524	53,730
Feb-21	3696	56,370

Electric Cost



Kilowatts Used



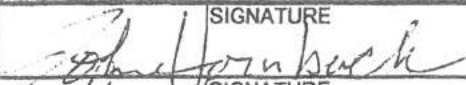
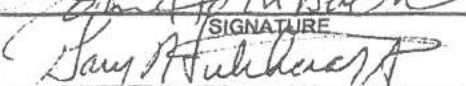
25

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium µg/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8	< 4.8	1.2	233	281						
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 4.8	1.2	233	281						
Avg	< 4.8	1.2	233	281						
Min	< 4.8	1.2	233	281						
Max	< 4.8	1.2	233	281						

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

DATE	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				
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C			
1		3.4	5,700	900	9.2	5.1	4,860	800	9.7	33	0	7:30
2		5.0	6,040	950	9.0	6.3	5,470	850	9.1	30	0	7:30
3		1.7	5,170	850	9.0	2.2	4,440	800	9.2	27	0	7:30
4		1.7	5,310	850	10.1	1.8	4,950	800	10.5	45	0	7:30
5		1.6	4,300	800	9.2	2.3	4,890	800	9.5	31	0	7:30
6		1.7	5,330	860	7.9	2.3	4,930	850	8.1	22	0	7:30
7		1.7	5,300	860	5.7	2.3	4,790	860	6.0	7	0.25	7:30
8		1.8	5,400	880	6.1	2.9	4,810	920	6.3	22	0	7:30
9		2.1	5,180	900	5.9	3.8	4,840	800	6.5	18	0	7:30
10		2.2	4,760	850	6.6	3.6	5,060	900	6.5	19	0.25	7:30
11		2.7	4,500	800	5.8	3.8	5,320	900	6.5	16	0.25	7:30
12		2.8	4,080	750	6.2	2.3	5,320	900	6.2	14	0.25	7:30
13		3.0	4,030	800	4.8	2.0	5,340	850	5.1	5	0	7:30
14		2.0	4,080	850	3.7	2.2	5,210	900	5.3	0	0.25	7:30
15		2.1	4,250	850	3.1	3.2	5,010	900	3.7	-2	0.25	7:30
16		3.1	4,150	550	4.1	3.0	5,270	800	4.0	-10	0.5	7:30
17		2.2	4,350	850	4.6	2.7	5,020	900	5.1	10	0.25	7:30
18		2.0	4,620	850	4.1	2.0	4,730	900	4.2	9	0.25	7:30
19		2.5	5,180	850	5.1	2.6	4,510	850	5.5	-4	0	7:30
20		1.9	5,250	880	4.4	2.9	4,250	820	4.6	16	0	7:30
21		1.7	5,210	890	6.9	2.2	4,150	760	6.8	31	0	7:30
22		1.4	5,230	900	7.8	2.0	3,450	600	7.5	31	0	7:30
23		1.5	4,940	850	9.5	1.8	4,460	700	10.6	39	0	7:30
24		1.2	5,740	900	10.5	1.8	5,520	850	10.8	40	0	7:30
25		1.5	5,680	850	9.6	1.6	6,120	900	10.1	31	0	7:30
26		1.4	5,200	800	9.7	1.5	5,860	900	10.2	37	0	7:30
27		1.4	5,330	900	10.2	1.4	5,970	900	10.3	36	0	7:30
28		1.1	5,490	800	11.2	1.3	5,750	850	11.1	52	0.5	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	3/4/2021
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	3/4/2021

*Required Daily (Monday - Friday)

**Required 1/week

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

Permit Number	Outfall Number
MO0103241	001A
Monitoring Period	
2/1/21	2/28/21
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C	*****	4.3	3.6	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	1.822	1.556	Mgal/d
Mon. Location.: End of Pipe Sample Type: Total Measured Frequency: Daily	*****;*****	*****;*****	*****;*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
pH	6.9	*****	7.7	SU	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Weekly	Minimum:6.5	*****;*****	Maximum:9.0		*****;*****	*****;*****	
Total Suspended Solids (TSS)	*****	3.4	2.9	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****	
Nitrogen, ammonia total (as N)	0.17	*****	0.07	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Weekly	Daily Max.:11.5	*****;*****	Monthly Avg.:2.2		*****;*****	*****;*****	
Oil and grease (soxhlet extr.) tot.	<4.8	*****	<4.8	mg/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Monthly	Daily Max.:15	*****;*****	Monthly Avg.:10		*****;*****	*****;*****	
Selenium (Se), total recoverable	1.2	*****	1.2	ug/L	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Grab Frequency: Monthly	Daily Max.:9.1	*****;*****	Monthly Avg.:3.6		*****;*****	*****;*****	
BOD, 5-day, percent removal	*****	*****	97.9	%	*****	*****	*****
Mon. Location.: End of Pipe Sample Type: Calculated Frequency: Monthly	*****;*****	*****;*****	Monthly Avg. Min.:85		*****;*****	*****;*****	

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

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

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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Permit Number	Outfall Number
MO0103241	SM2A
Monitoring Period	
2/1/21	2/28/21
NODE:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Hardness, total (as CaCO3)	281	*****	281	mg/L	*****	*****	*****
Mon. Location.: Instream Monitoring	Daily Max.: Monitoring Required	*****:*****	Monthly Avg.: Monitoring Required		*****:*****	*****:*****	
Sample Type: Grab							
Frequency: Monthly							
Comments:							

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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
March 5, 2021

User Phone Number
(573)365-0455

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

Permit Number	Outfall Number
MO0103241	001B
Monitoring Period	
1/1/21	3/31/21
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
Nitrogen, total (as N)	11.7	*****	11.7	mg/L	*****	*****	*****	mg/L
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****:*****	Monthly Avg.:Monitoring Required		*****:*****	*****:*****		
Sample Type: Grab								
Frequency: Quarterly								
Phosphorus, total (as P)	2.1	*****	2.1	mg/L	*****	*****	*****	mg/L
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****:*****	Monthly Avg.:Monitoring Required		*****:*****	*****:*****		
Sample Type: Grab								
Frequency: Quarterly								
Cadmium, total recoverable	<5.0	*****	<5.0	ug/L	*****	*****	*****	ug/L
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****:*****	Monthly Avg.:Monitoring Required		*****:*****	*****:*****		
Sample Type: Grab								
Frequency: Quarterly								
Copper, total recoverable	<10.0	*****	<10.0	ug/L	*****	*****	*****	ug/L
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****:*****	Monthly Avg.:Monitoring Required		*****:*****	*****:*****		
Sample Type: Grab								
Frequency: Quarterly								

Comments:

This was submitted on the January 2021 DMR

Lake of the Ozarks Regional
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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 176
Jefferson City, MO, 65102

Permit Number	Outfall Number
MO0103241	SM1A
Monitoring Period	
1/1/21	3/31/21
NODI:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Phosphorus, total (as P)	<0.10	*****	<0.10	mg/L	*****	*****	*****
Mon. Location.: Instream Monitoring	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Quarterly							
Nitrogen, total (as N)	0.52	*****	0.52	mg/L	*****	*****	*****
Mon. Location.: Instream Monitoring	Daily Max.:Monitoring Required	*****;*****	Monthly Avg.:Monitoring Required		*****;*****	*****;*****	
Sample Type: Grab							
Frequency: Quarterly							

Comments:

This submitted in the January 2021 DMR

Lake of the Ozarks Regional
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National Pollutant Discharge Elimination System (NPDES)
Discharge Monitoring Report (DMR)

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eSignature Gary Hutchcraft	Submission Date March 5, 2021	User Phone Number (573)365-0455
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FEBRUARY 2021

The fall was also raining; Africa, Sierra Leone, U-diat, VC-partly cloudy.

Approved by _____

Date: 3/4/2021