

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING**

AGENDA

MAY 19, 2020 @ 4:00 p.m.

VIA ZOOM

<https://zoom.us/j/96797228248>

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, Greg Massey
Alderman, Lake Ozark, Judy Neels
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: April 21, 2020

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4. REPORTS

Bill List	5-10
Revenue Budget Analysis	11
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April Alliance Report of Operations	15-31
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Approval of Flow Charts April 2020

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Discussion and possible action on the Headworks building roof replacement project 32

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE JUNE 16, 2020 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – April 21, 2020**

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, April 21, 2020 via virtual meeting.

ROLL CALL:

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

MINUTES:

Public Works Director Michalik motioned to approve the meeting minutes of March 17, 2020 his motion was seconded by City Administrator Woods, and passed unanimously.

REPORTS:

The March Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Resident Member Hamner to approve the documents and pay the bills. His motion was seconded by Alderman Massey, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for March was 1.393 mgd. We had 9.6 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.9 mg/l and TSS of 1.6 mg/l respectively for March, which represents a 99.2% or better removal.

The MLSS average for both aeration basins was 5,166 mg/l. The total dry weight sludge inventory for March totaled 366,784 pounds. There were 25 tanker loads or 64,500 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Michalik to approve the Flow Chart for March. His motion was seconded by City Administrator Woods. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Public Works Director Michalik stated the plant looks good. The digesters are going down. He stated everyone was doing a good job.

NEW BUSINESS:

- A. None at this time

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:08 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
MAY 19, 2020

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	808.98
OPERATING FUND BILLS TO BE PAID:	\$	36,637.89
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	922.80
TOTAL	\$	38,369.67

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	255	Bankcard Services	Lowe's/Spray Wand	\$ 27.98
4140	256	Naught-Naught	Officer's Liability	\$ 781.00
				\$ -
		TOTAL		\$ 808.98

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	257	Equipment Replacement Fund	Payment into ER Fund	\$ 5,967.00
4020	258	Jani King	May	\$ 195.00
4020	259	Menards	91202 Weed Killer	\$ 37.99
4020	259	Menards	91620 Pressure guage/recipblades	\$ 11.37
4020	259	Menards	91671 Main. Sludge Trk	\$ 64.87
4150	260	Crown Power Equip	70115 Mower Drive Belt	\$ 21.94
4150	261	O'Reilly Auto	280787 Lights for Sludge Trk	\$ 14.78
4170	262	Alliance Water Resources, Inc.	May	\$ 25,465.00
4175	263	Ameren MO	11673321	\$ 4,589.65
4175	263	Ameren MO	98041275	\$ 151.71
4176	264	AT&T	May	\$ 78.58
4176	265	Ferrellgas	Rent 3/20 to 3/21	\$ 40.00
				\$ -
				\$ -
		TOTAL		\$ 36,637.89

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	1045	Lake Sun Leader	Bid - Headworks Bldg. Roof	\$ 236.25
4000	1046	Bankcard Services	Winch for Clar #1 skum basket	\$ 401.46
4000	1046	Bankcard Services	Hoist for Lift Station Pumps	\$ 346.47
4000	1046	Bankcard Services	Tax & Shipping credit	\$ (24.77)
4000	1046	Bankcard Services	Tax & Shipping credit	\$ (19.55)
4000	1046	Bankcard Services	Tax & Shipping credit	\$ (17.06)
				\$ -
		TOTAL		\$ 922.80



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

AMOUNT DUE \$4,589.65

Due Date 06/02/2020

Current Detail for Statement 05/11/2020

Total Electric Charges \$4,589.65

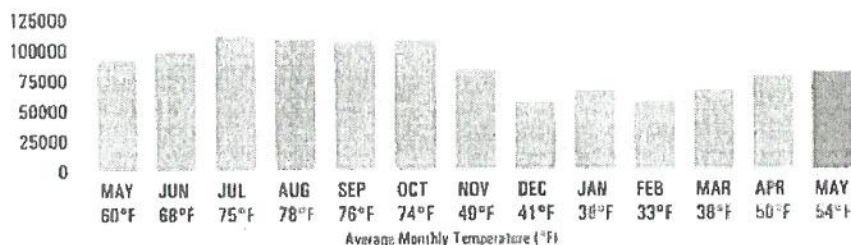
Amount After Due Date \$4,858.49

Total Amount Due \$4,589.65

Previous Statement \$8,203.05
\$8,203.05 transferred from 5580005820 at 3 ANDERSON RD.

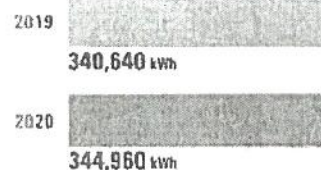
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 1.3% more than last year.



Usage from Jan-May for 2019 & 2020

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: 5/11/20



» See next page for service details.

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Amount Due	Due Date
\$4,589.65	June 02, 2020
Delinquent Amount After Due Date	Account Number
\$4,858.49	4580005832

Amount Enclosed \$

>000144 6321974 0002 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

40600000 0045800058302 000004589650 000004589650



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Electric Service Details

Service from 04/07/2020 - 05/07/2020 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	04/07 - 05/07	30	Total kWh	Actual	59146.0000	58645.0000	501.0000	160.0000	60160.0000
11673321	04/07 - 05/07	30	Peak kW	Actual	1.1010	0.0000	1.1010	160.0000	176.1600

Usage Summary

Total kWh	80160.0000	Peak kW	176.2000
Total Billing Demand	176.2000	October Winter Base kW	216.5000
Winter Base Demand	176.2000	Base kWh Ratio	1.0000
Base kWh (HUD)	80160.0000	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	176.20	kW	@	\$ 2.00000000	\$352.40
Base Energy Charge / Hours Used	26,430.00	kWh	@	\$ 0.06090000	\$1,609.59
Base Energy Charge / Hours Used	35,240.00	kWh	@	\$ 0.04520000	\$1,592.85
Base Energy Charge / Hours Used	18,490.00	kWh	@	\$ 0.03560000	\$658.24
Customer Charge					\$95.29
Fuel Adjustment Charge	80,160.00	kWh	@	\$ 0.00077000	\$ 61.72
Energy Efficiency Investment Charge	80,160.00	kWh	@	\$ 0.00383900	\$307.73
Renewable Energy Adjustment	80,160.00	kWh	@	\$ 0.00044000	\$35.27
				Total Service Amount	\$4,589.65
				Total Electric Charges	\$4,589.65

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 Phone Number _____

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AMERENMISSOURI.COM
PAYSTATION



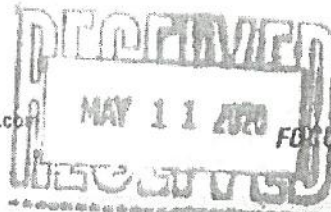
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Account Number 5580005920
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

AMOUNT DUE \$151.71

Due Date 06/02/2020

Current Detail for Statement 05/11/2020

Total Electric Charges \$151.71

Amount After Due Date \$153.99

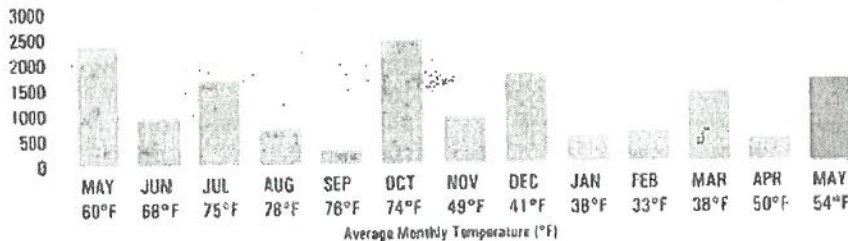
Total Amount Due \$151.71

Previous Statement \$0.00
Total Payments \$4,637.28

Payment Received. Thank You.

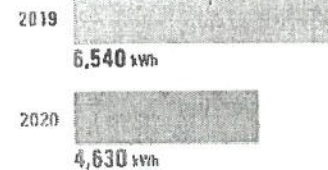
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 29.2% less than last year.



Usage from Jan-May for 2019 & 2020

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#: 4675

Signature: *[Handwritten Signature]*

Date: 5/11/20

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Amount Due	Due Date
\$151.71	June 02, 2020
Delinquent Amount After Due Date	Account Number
\$153.99	5580005920

Amount Enclosed \$

>000150 6321979 0002 042139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

30633000 0055800059200 000000151710 000000151710



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Electric Service Details

Service from 04/07/2020 - 05/07/2020 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	04/07 - 05/07	30	Total kWh	Actual	20064.0000	19902.0000	162.0000	10.0000	1620.0000
98041275	04/07 - 05/07	30	Peak kW	Actual	4.8380	0.0000	4.8380	10.0000	48.3800

Usage Summary

Total kWh	1620.0000	Winter Base kWh	1680.0000
Current Base kWh	1620.0000	Seasonal kWh	0.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Base Energy Charge	1,620.00	kWh	@	\$ 0.07790000	\$126.20
Seasonal Energy Charge	0.00	kWh	@	\$ 0.04490000	\$0.00
Customer Charge					\$19.99
Fuel Adjustment Charge	1,620.00	kWh	@	\$ 0.00077000	\$-1.25
Energy Efficiency Investment Charge	1,620.00	kWh	@	\$ 0.00374300	\$6.06
Renewable Energy Adjustment	1,620.00	kWh	@	\$ 0.00044000	\$0.71
Total Service Amount					\$151.71
Total Electric Charges					\$151.71

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
April 28, 2020	\$4,637.28

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

		4/30/2020					
Account		2018	2019	2020	2020	2020	Percent
Number	Account Name	Actual	Actual	Budget	Actual as of	April	YTD
					4/30/2020	Revenue	
3020	Osage Beach	480,784.67	475,091.53	473,000.00	159,398.22	39,531.80	34%
3010	Lake Ozark	69,215.30	74,908.46	77,000.00	23,935.12	6,301.53	31%
3030	Misc.	1,485.00	0.00	0.00	0.00	0.00	
3100	Interest	1,484.82	4,286.79	1,400.00	207.32	1.47	15%
3060	Waste Haulers' Fee	25,780.00	26,260.00	29,000.00	10,940.00	4,280.00	38%
Total Operating Fund		578,749.79	580,546.78	580,400.00	194,480.66	50,114.80	34%
E/R Fund Income		4,281.74	9,001.77	4,000.00	1,098.26	857.25	27%
TOTAL INCOME		583,031.53	589,548.55	584,400.00	195,578.92	50,972.05	33%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
4/30/2020

Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 4/30/2020	2020 April Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.00	71,606.00	23,868.00	5,967.00	33%
4020	*Maintenance & Repair	9,713.86	104,062.97	88,000.00	13,535.97	2,581.73	15%
4140	Insurance	18,475.25	18,761.00	19,200.00	19,770.00	781.00	103%
4150	Vehicle Repair/Maint	3,887.47	5,479.60	10,000.00	6,312.42	0.00	63%
4160	Haulers Fees to Contractor	8,000.00	0.00	0.00	0.00	0.00	0%
4170	Contract Management	319,010.64	299,592.00	308,580.00	101,860.00	25,465.00	33%
4175	Electric	79,533.37	73,276.87	75,000.00	15,137.46	4,637.28	20%
4176	Utilities Misc.	0.00	3,717.52	3,100.00	1,489.82	230.55	48%
4180	Bank Charges	24.00	176.00	75.00	16.00	0.00	0%
4200	Audit	2,300.00	2,400.00	2,500.00	0.00	0.00	0%
4240	Capital Purchases	0.00	145,247.00	0.00	0.00	0.00	0%
	Totals	482,548.76	694,316.96	578,061.00	181,989.67	39,662.58	31%
	**E/R Expenses	42,782.61	41,280.51	83,500.00	38,600.00	0.00	46%
	TOTAL EXPENSES	525,331.37	735,597.47	661,561.00	220,589.67	39,662.58	33%

*Maintenance & Repair

Auto Dialer Yrly Software Fee

500.00

Regular Maintenance

11,000.00

UV Spare Parts

10,000.00

Road and parking lot main

2,000.00

Chainlink fence repair

4,000.00

Box of BOD bottles

500.00

Sandblast & paint clarifier #2

60,000.00

-

88,000.00

FALL 2020

**Equipment & Replacement

2019

Pista Grit Suction tube

5,500.00

RAŞ motor control ctr/elec panel

37,670.00

Replace lift station pump

8,000.00

Impeller & volute wear ring for Flygt pump

3,000.00

Ducking skimmer arm mechanism

12,000.00

Replace winch for pulling lift station pumps & skim

3,000.00

Rebuild Ducking skimmer arm & arm supports

5,000.00

Replace wooden doors w/fiberglass

2,000.00

Repair/replace roof on headworks & other bldg

45,000.00

83,600.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
4/30/2020

Beginning Balance	261,810.19
Income - Osage Beach	39,531.80
Income - Lake Ozark	6,301.53
Income - Other	-
Income - Waste Haulers' Fees	4,280.00
Interest - Checking	0.00
Income - CD Interest	1.47
Transfers From E/R Fund	-
Transfers to E/R Fund	(5,967.00)
Expenses	(33,695.56)
Ending Fund Balance	272,262.43
Central Bank - NOW Acct.	59,330.48
	-
CD First Bank of the Lake, 2/20/21 #101318432	103,807.68
CD First Bank of the Lake, 4/22/21 #101318433	110,000.00
	-
Outstanding Checks:	(875.73)
	272,262.43

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
4/30/2020

Beginning Balance	516,663.15
Interest - Checking	62.64
Income - CD Interest	794.61
Transfers to E/R Fund	5,967.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	523,487.40
First Bank of the Lake - Money Mkt.	107,050.74
CD Providence Bank, 8/20 #1268880	207,553.78
CD First Bank of the Lake, 2/20/21 #101318431	101,942.14
CD First Bank of the Lake, 07/30/21 #101318430	106,940.74
	-
Outstanding Checks:	-
	523,487.40

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**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 April 2020

Submitted by Alliance Water Resources, Inc. for the

May 2020

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	2.5	2.9	N/A	0		0.03	< 4.9	< 1.0
Peak Day	2.8	3.1	7.7	0		0.05	< 4.9	< 1.0
Percent Removal	99.1	99.5	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		1.1	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		6.0	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.210 MGD or 40% of Permitted flow with Lake Ozark contributing 12% of the total flow and Osage Beach contributing 88%. 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 85049 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 25 tanker loads of bio-solids during the month equivalent to a total of 92,500 gallons and 29,315 pounds dry weight solids.

29,315 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 607,500 gallons with a level of 6.0 feet in Tank 1 and 7.5 feet in Tank 2.

WASTEHAULERS

The plant received 39 loads of septage during the month totaling 107,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We replace a couple lift station floats in the decant lift station at the digesters on the 1st of April.

SAFETY

- We conducted our monthly routine Safety Meeting on Violence in the Workplace & Coronavirus Prevention on the 24th of April.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 1st of May.
- We received the lab results for the 2nd quarter 503 sludge regs testing on the 24th of April and everything looked good.

MISCELLANEOUS AND RECOMMENDATIONS

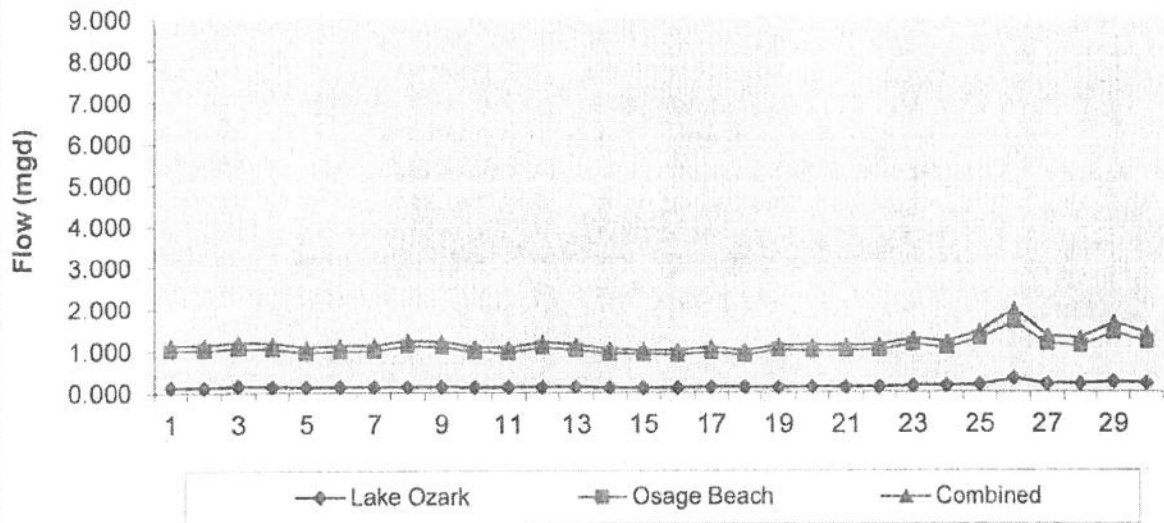
- The headworks building roof replacement project was advertised in the Lake Sun public notice section on the 1st of May. We have sent out 4 invitations to bid and the bid opening is the 13th of May. We will bring a bid tabulation sheet to the Joint Sewer Board meeting along with our recommendation.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF April 2020

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-Apr	0	0.128	1.010	1.138	11.2	88.8						
2-Apr	0	0.117	1.016	1.133	10.3	89.7						
3-Apr	0	0.153	1.058	1.211	12.6	87.4	165	173	185	92	136	214
4-Apr	0.3	0.139	1.045	1.184	11.7	88.3						
5-Apr	0	0.127	0.957	1.084	11.7	88.3						
6-Apr	0	0.137	0.991	1.128	12.1	87.9						
7-Apr	0	0.135	0.998	1.133	11.9	88.1						
8-Apr	0	0.128	1.117	1.245	10.3	89.7						
9-Apr	0	0.135	1.088	1.223	11.0	89.0						
10-Apr	0	0.122	0.971	1.093	11.2	88.8	343	298	178	132	122	278
11-Apr	0	0.125	0.961	1.086	11.5	88.5						
12-Apr	0.25	0.125	1.084	1.209	10.3	89.7						
13-Apr	0.3	0.125	1.019	1.144	10.9	89.1						
14-Apr	0	0.111	0.927	1.038	10.7	89.3						
15-Apr	0.0	0.101	0.917	1.018	9.9	90.1						
16-Apr	0	0.108	0.902	1.010	10.7	89.3						
17-Apr	0.2	0.124	0.958	1.082	11.5	88.5	370	275	303	122	200	234
18-Apr	0	0.118	0.885	1.003	11.8	88.2						
19-Apr	0	0.115	1.014	1.129	10.2	89.8						
20-Apr	0	0.121	0.996	1.117	10.8	89.2						
21-Apr	0	0.117	1.001	1.118	10.5	89.5						
22-Apr	0	0.116	1.016	1.132	10.2	89.8	275	238	458	148	200	1614
23-Apr	0.7	0.148	1.148	1.296	11.4	88.6						
24-Apr	0	0.147	1.059	1.206	12.2	87.8						
25-Apr	1	0.168	1.278	1.446	11.6	88.4						
26-Apr	0.75	0.315	1.672	1.987	15.9	84.1						
27-Apr	0.1	0.191	1.156	1.347	14.2	85.8						
28-Apr	0.5	0.189	1.105	1.294	14.6	85.4						
29-Apr	1	0.233	1.421	1.654	14.1	85.9						
30-Apr	0.1	0.206	1.197	1.403	14.7	85.3						
SUM	5.2	4.324	31.967	36.291								
AVG		0.144	1.066	1.210	12	88	288	246	281	124	165	585
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

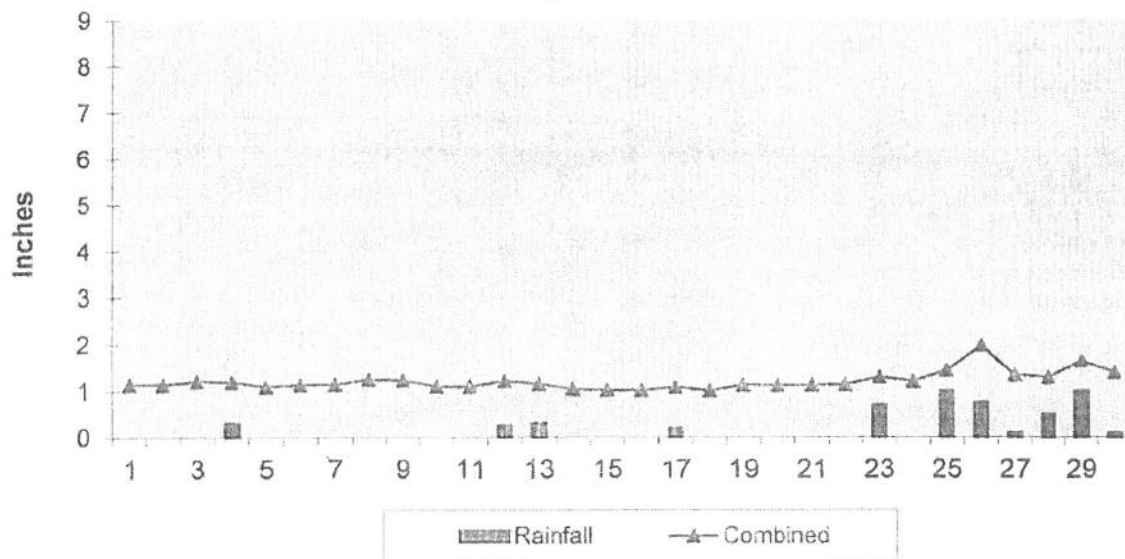
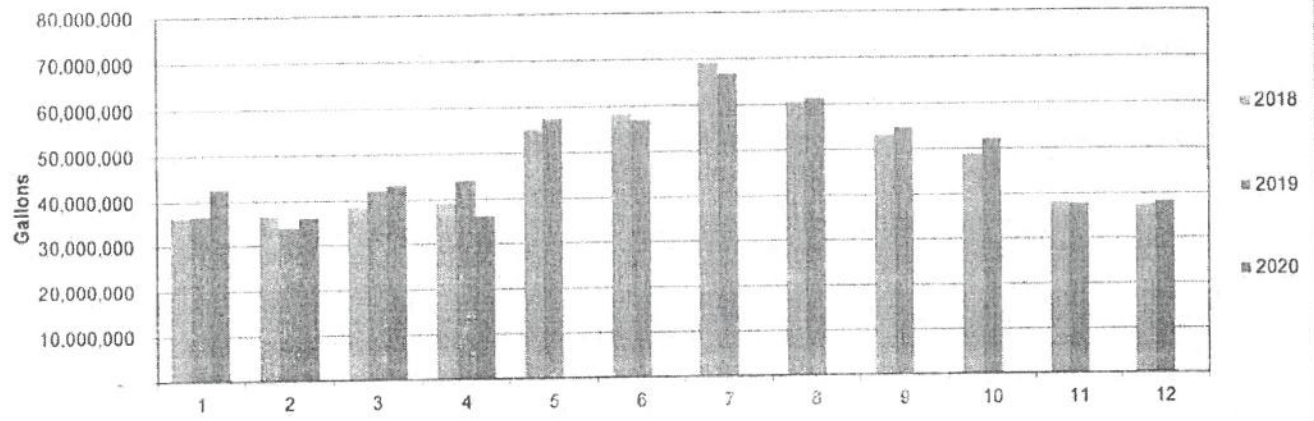


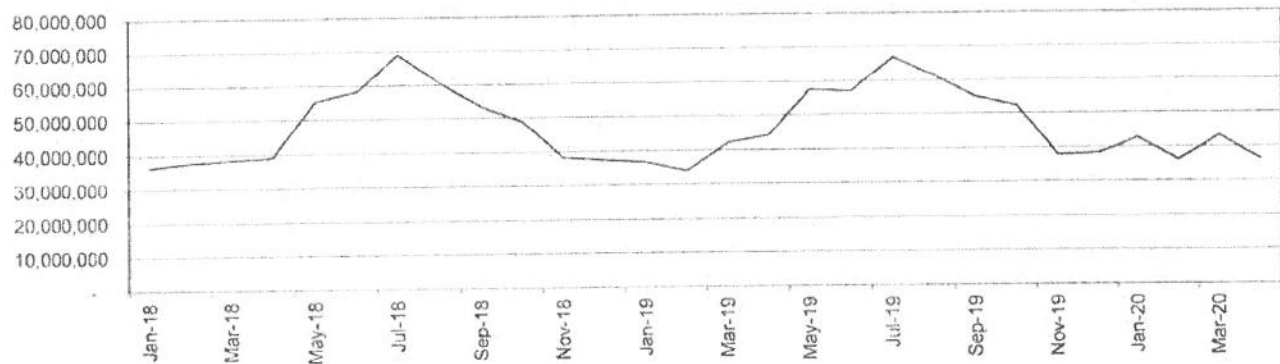
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2018</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%
<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						-	
June						-	
July						-	
August						-	
September						-	
October						-	
November						-	
December						-	
	22.6	137,338,000	87%	20,978,000	13%	158,316,000	100%

Monthly Influent Flow
Figure 3A

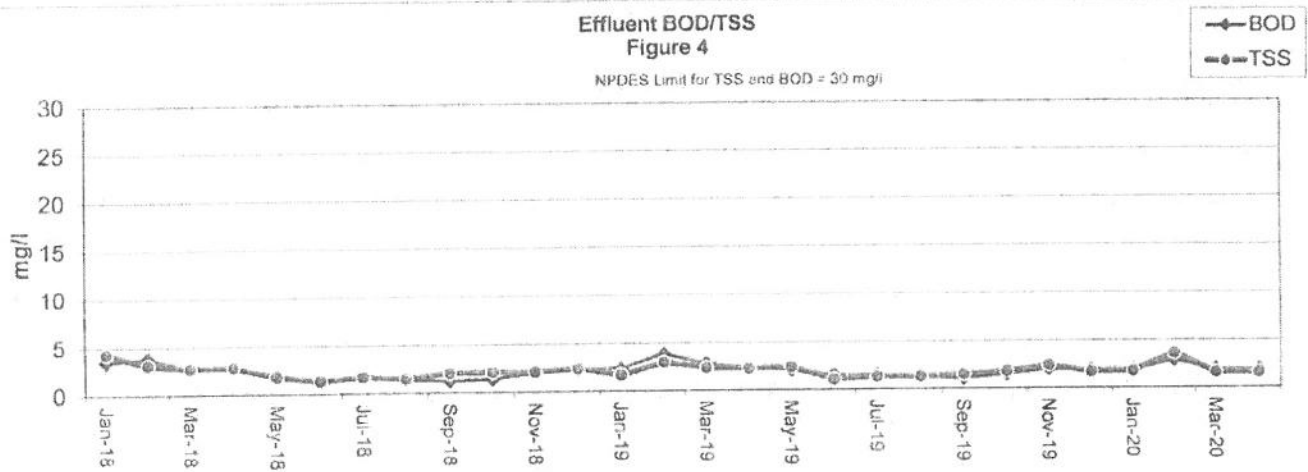


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

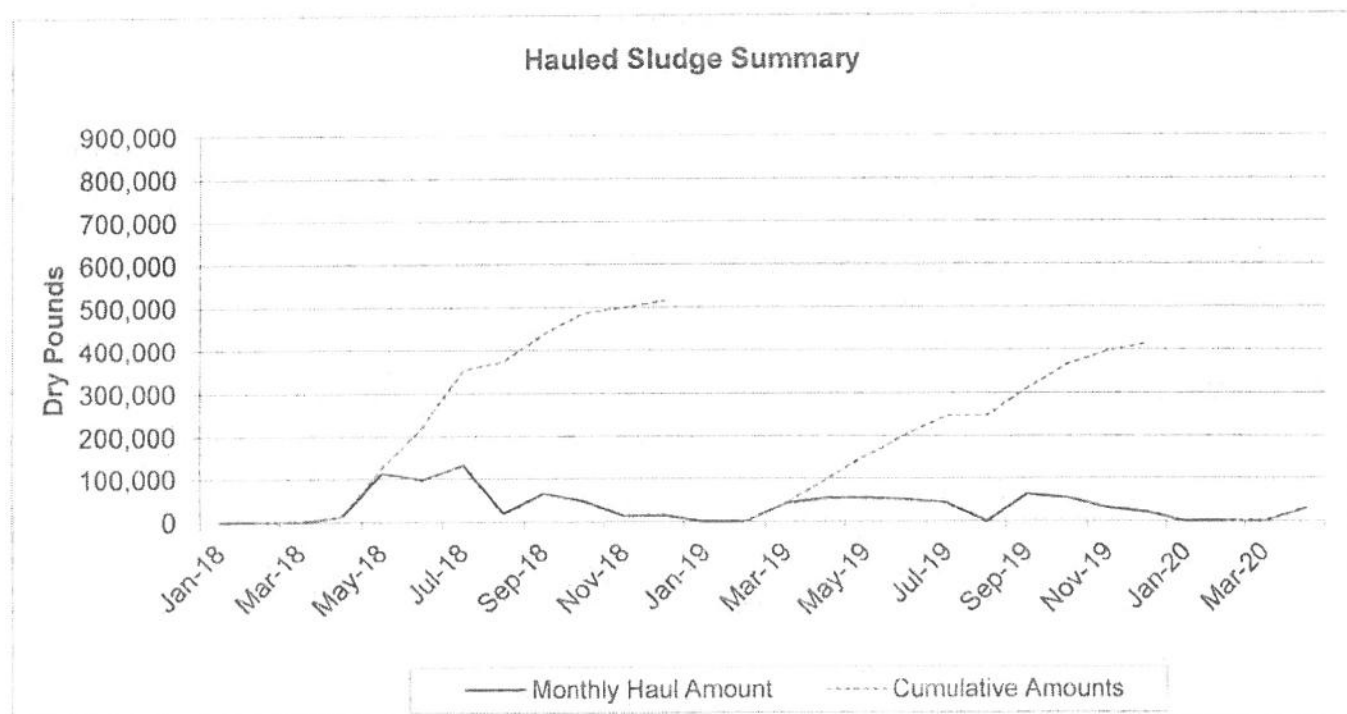
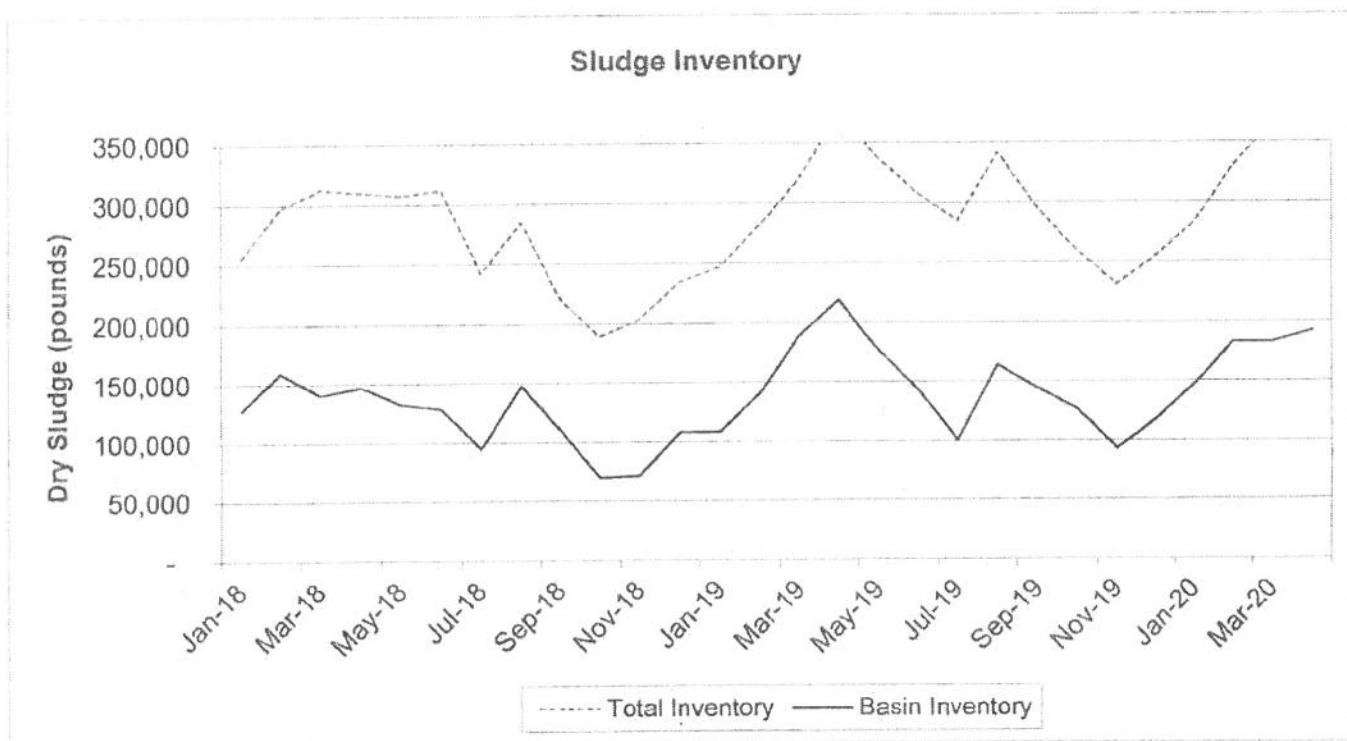


	Loads	Gallons	Hauled Sludge			Annual Cumulative # Dry
			# Dry	% Solids		
Jan-18	0	-	0	3.4%		
Feb-18	0	-	0	3.4%		
Mar-18	0	-	0	3.4%		
Apr-18	11	40,700	12,096	3.6%		12,096
May-18	93	344,100	112,693	3.9%		124,789
Jun-18	88	325,000	97,758	3.6%		222,547
Jul-18	126	466,200	131,023	3.4%		353,570
Aug-18	12	44,400	19,441	5.3%		373,011
Sep-18	51	188,700	69,098	4.2%		439,109
Oct-18	38	140,600	49,447	4.1%		487,556
Nov-18	11	40,700	12,889	3.8%		500,455
Dec-18	14	51,800	14,888	3.4%		515,143
Jan-19	0	-	0	3.4%		
Feb-19	0	-	0	3.4%		
Mar-19	36	133,200	42,139	3.9%		43,139
Apr-19	39	144,300	53,940	4.5%		97,079
May-19	49	181,300	54,866	3.6%		151,945
Jun-19	44	162,800	51,872	3.8%		203,817
Jul-19	37	135,900	43,633	3.6%		247,450
Aug-19	0	-	0	3.8%		247,450
Sep-19	58	214,800	82,487	3.5%		309,937
Oct-19	60	185,000	64,742	3.5%		364,679
Nov-19	29	107,300	31,628	3.5%		396,308
Dec-19	17	62,800	20,643	3.9%		416,951
Jan-20	0	-	0	3.9%		
Feb-20	0	-	0	3.9%		
Mar-20	0	-	0	3.9%		
Apr-20	25	92,500	29,215	3.8%		29,215

Basin Depths				# Dry
Tank #1	Tank #2	AB #1	Basin Gallons	
5.5	4.5	0.0	450,000	127,602
7.5	5.0	0.0	562,500	156,503
5.5	5.5	0.0	495,000	140,382
5.0	6.0	0.0	495,000	147,114
4.5	4.5	0.0	405,000	132,638
4.0	5.5	0.0	427,500	128,589
3.0	4.5	0.0	337,500	94,653
5.0	2.5	0.0	337,500	147,778
4.5	2.5	0.0	315,000	110,335
3.0	1.5	0.0	202,500	69,776
2.5	2.5	0.0	225,000	71,309
6.5	2.0	0.0	382,500	108,459
5.0	3.5	0.0	382,500	108,462
6.0	5.0	0.0	495,000	140,352
6.0	7.0	0.0	585,000	168,462
5.5	7.5	0.0	585,000	218,678
8.0	5.0	0.0	585,000	177,025
7.0	5.0	0.0	450,000	143,381
3.0	4.0	0.0	315,000	100,397
5.5	6.0	0.0	517,500	164,006
7.0	4.0	0.0	495,000	144,134
7.5	2.0	0.0	427,500	126,498
3.5	3.5	0.0	315,000	92,853
6.0	2.0	0.0	360,000	118,148
6.0	4.0	0.0	450,000	146,357
6.5	6.0	0.0	562,500	182,659
5.5	7.0	0.0	562,500	182,659
6.0	7.5	0.0	607,500	192,528

Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry
Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory
0.5	1.0	0.0	4,360	4,040	3,626,643	127,488	0.00422	255,090
2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113
0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769
0.5	0.5	0.5	5,670	5,040	3,639,476	182,542	0.00535	309,655
0.5	0.5	0.5	5,963	5,547	3,639,476	174,693	0.00576	307,321
4.0	3.0	1.0	6,190	5,490	3,767,762	193,511	0.00584	312,100
1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026
2.5	1.0	1.0	4,693	4,170	3,705,526	138,753	0.00443	284,531
0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132
0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409
1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809
11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494
1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874
1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00458	281,503
0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,038
1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923
3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113
2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267
2.0	3.0	0.5	6,080	5,830	3,710,524	163,973	0.00595	284,370
5.0	3.0	0.5	5,660	5,680	3,763,810	177,962	0.00567	341,988
2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00489	294,741
2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00428	259,414
3.5	0.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,968
1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044
1.0	1.5	0.0	4,260	4,690	3,644,405	135,015	0.00448	282,382
3.5	2.0	0.0	5,180	4,390	3,697,691	147,718	0.00479	330,676
2.0	3.0	1.0	5,760	5,640	3,767,762	183,825	0.00585	366,784
1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742

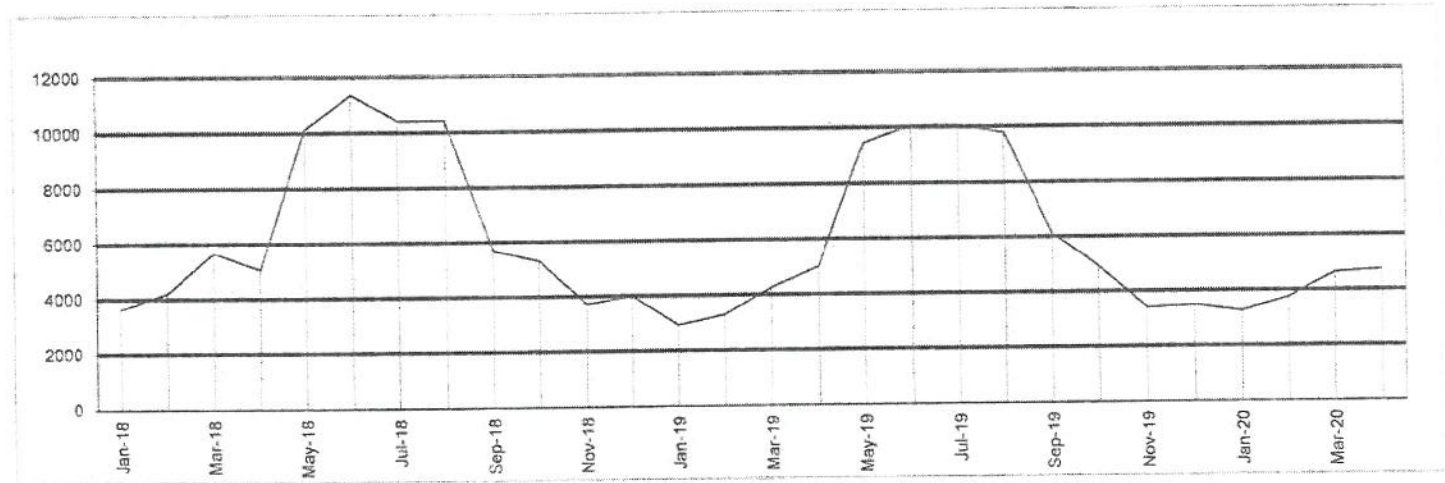
Accepted Septage	
Loads	Gallons
5	12,500
15	40,000
9	15,000
8	20,000
10	24,500
38	95,000
42	107,000
30	75,000
46	113,500
21	59,500
8	21,500
22	55,000
19	46,500
31	79,500
9	21,500
23	61,500
12	25,500
18	47,500
36	84,000
29	72,500
40	97,000
22	55,000
15	36,000
14	32,000
16	34,100
23	57,000
25	84,500
39	107,000



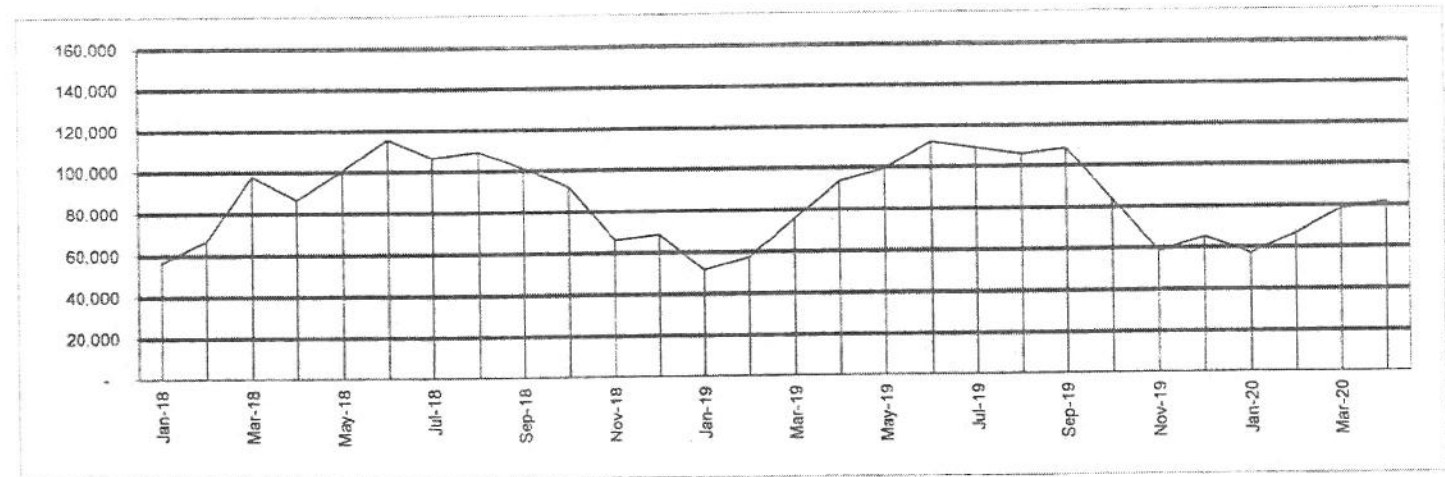
Electric Cost Kilowatts Used

Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
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

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						
Apr-20		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
INFLUENT					EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS 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	7.2			14.0	1.397	7.2				6.1	< 20	14.0		
2	7.3			14.7	1.280	7.3			0.02	6.3		14.7		
3	7.3	185	214	15.4	1.438	7.2	2.2	2.7		5.9		15.8	98.8	98.7
4	7.3			13.0	1.420	7.5				6.5		13.2		
5	7.3			13.2	1.464	7.5				6.6		12.7		
6	7.2			14.8	1.411	7.5				6.3	< 20	13.8		
7	7.3			16.0	1.338	7.5				6.2		15.7		
8	7.2			15.0	1.431	7.4				6.1		16.4		
9	7.2			19.4	1.389	7.4			0.03	5.9		16.2		
10	7.0	278	278	14.7	1.331	7.4	2.5	3.0		6.7		14.3	99.1	98.9
11	7.2			15.4	1.337	7.4				6.6		14.3		
12	7.2			15.7	1.488	7.7				5.9		15.8		
13	7.1			13.6	1.361	7.3				5.9	< 20	13.7		
14	7.0			14.5	1.340	7.4				7.0		12.9		
15	7.1			13.5	1.262	7.3				6.8		12.5		
16	7.0			14.1	1.317	7.3			0.02	7.1		12.9		
17	6.4	303	234	13.9	1.342	7.3	2.8	3.1		6.2		12.9	99.1	98.7
18	7.0			12.3	1.221	7.2				7.3		11.6		
19	7.2			14.3	1.388	7.3				6.5		13.0		
20	7.3			14.7	1.300	7.6				6.5	< 20	14.2		
21	7.2			14.7	1.391	7.4				6.1		14.1		
22	7.0	458	1614	15.1	1.221	7.3	2.5	2.6		6.1		14.1	99.5	99.8
23	6.4			15.3	1.606	7.3			0.03	6.1		14.9		
24	6.8			15.0	1.388	7.3				6.4		15.1		
25	6.9			14.9	1.608	7.1				5.0		15.4		
26	7.0			15.0	2.474	7.1				6.1		15.4		
27	6.9			15.2	1.589	7.1				6.0	< 20	15.6		
28	7.2			15.7	1.537	7.4				6.2		16.5		
29	7.1			15.2	1.935	7.4				5.3		16.4		
30	7.2			15.4	1.653	7.5			0.05	6.2		16.0		
Total					43.657									
Avg		306	585	15	1.455		2.5	2.9	0.03	6.3	< 20	14.5	99.1	99.0
Min	6.4	185	214	12	1.221	7.1	2.2	2.6	0.02	5.0	< 20	11.6	98.8	98.7
Max	7.3	458	1614	19	2.474	7.7	2.8	3.1	0.05	7.3	< 20	16.5	99.5	99.8

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 ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13	< 4.9	< 1.0	289	328	4.2	< 0.10	34.0	0.23	< 5.0	< 10.0
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	< 4.9	< 1.0	289	328	4.2	< 0.10	34.0	0.23	< 5.0	< 10.0
Avg	< 4.9	< 1.0	289	328	4.2	< 0.10	34.0	0.23	< 5.0	< 10.0
Min	< 4.9	< 1.0	289	328	4.2	< 0.10	34.0	0.23	< 5.0	< 10.0
Max	< 4.9	< 1.0	289	328	4.2	< 0.10	34.0	0.23	< 5.0	< 10.0

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 mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1		1.6	5,940	900	13.6	3.1	5,120	890	13.5	42	0	7:30
2		1.2	6,130	900	15.1	3.6	4,910	820	15.1	57	0	7:30
3		0.6	5,910	880	15.8	3.4	5,240	840	15.7	59	0	7:30
4		3.0	5,400	880	12.9	3.7	5,610	890	12.9	38	0.3	7:30
5		3.5	5,500	860	12.6	4.8	5,230	860	12.5	45	0	7:30
6		1.3	5,550	870	13.8	4.5	4,810	840	13.5	55	0	7:30
7		1.1	5,270	820	16.2	3.2	4,830	820	15.9	64	0	7:30
8		1.2	5,910	840	17.0	1.6	5,660	860	16.7	58	0	7:30
9		1.8	5,140	780	16	1.7	6,000	870	16.1	49	0	7:30
10		3.0	5,470	830	13.9	2.8	5,920	900	14.4	37	0	7:30
11		3.1	7,980	850	14.5	2.8	5,730	900	14.8	47	0	7:30
12		2.0	5,300	840	15.8	2.6	5,310	830	15.8	58	2.2	7:30
13		2.2	5,280	870	13.4	2.6	4,840	850	14.3	34	0.3	7:30
14	4,937	3.4	5,400	880	12.7	4.9	5,900	930	12.6	40	0	7:30
15	7,344	3.6	5,180	900	12.1	4.0	5,120	870	12.1	43	0	7:30
16	6,665	3.2	5,420	900	13.3	4.9	5,250	850	13.3	39	0	7:30
17		3.0	5,430	870	13.4	3.7	5,460	890	13.9	47	0.2	7:30
18		4.6	5,380	900	11.4	5.8	5,370	900	11.3	34	0	7:30
19		2.9	6,050	910	13.1	5.1	4,580	840	12.9	50	0	7:30
20		1.1	6,170	900	14.6	3.7	4,930	840	14.4	48	0	7:30
21	10,368	2.4	4,090	810	14.7	3.2	4,750	890	14.7	47	0	7:30
22		2.5	5,600	870	15	3.2	4,880	850	15.1	48	0	7:30
23		2.1	5,000	850	15.7	3.6	4,430	730	15.6	56	0.7	7:30
24		2.6	5,210	880	15.8	3.2	4,580	860	15.8	50	0	7:30
25		1.2	4,710	780	15.6	1.0	4,490	790	15.5	53	1.0	7:30
26		1.6	4,950	860	15.4	2.6	5,570	870	15.4	48	0.75	7:30
27		1.1	5,550	880	16.2	3.1	4,920	800	15.9	54	0.1	7:30
28		1.0	5,580	880	16.3	2.3	5,620	890	16.3	57	0.5	7:30
29		1.0	4,870	850	16.2	1.0	5,760	910	16.3	55	1.0	7:30
30		1.8	5,740	900	15.7	3.4	5,290	820	15.6	48	0.1	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)

John Hornback

REPORT APPROVED BY (PRINT)

Gary Hutchcraft

SIGNATURE

John Hornback

SIGNATURE

Gary Hutchcraft

PHONE #

(573)365-0455

PHONE #

(573)365-0455

DATE

5/1/2020

DATE

5/1/2020

*Required Daily (Monday - Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241 001 A
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
2020 04 01 2020 04 30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTED	*****	*****	*****	2.8	2.5	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQUIREMENT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (81010)	REPORTED	*****	*****	*****	*****	98.8	Monthly	Calculated
Stage Type: End of Pipe	REQUIREMENT	*****	*****	*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Escherichia coli (E. coli) (51040)	REPORTED	*****	*****	*****	<20	<20	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****	*****	*****	7 Day Geometric Mean: 630	30 Day Geometric Mean: 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTED	2.474	1.455	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQUIREMENT	Daily Maximum: Monitoring Required	Monthly Average: Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00010)	REPORTED	*****	*****	0.05	*****	0.03	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****	*****	Daily Maximum: 0.0	*****	Monthly Average: 1.1	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (00150)	REPORTED	*****	*****	<4.9	*****	<4.9	Monthly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****	*****	Daily Maximum: 15	*****	Monthly Average: 10	Monthly	Grab
pH (00400)	REPORTED	*****	*****	7.1	*****	7.7	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****	*****	Minimum: 6.5	*****	Maximum: 9.0	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
OR: FIELD-SPECIFIC COMMENTS:
PERMITTEE COMMENTS:

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 this 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.

OPERATOR IN RESPONSIBLE CHARGE				7305
TYPED OR PRINTED NAME		CERTIFICATE NUMBER		
Gary F Hutchcraft		5733650455		
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		
Gary F Hutchcraft		2020-05-01 09:09:38		
TYPED OR PRINTED NAME		SIGNATURE		
		Date		

Page 1

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241 001 A
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
2020 04 01 2020 04 30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Selenium (Se), total recoverable (00381)	REPORTED	*****	*****	<1.0	*****	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****	*****	Daily Maximum: 9.1	*****	Monthly Average: 3.6	Monthly	Grab
Suspended Solids, percent removal (81011)	REPORTED	*****	*****	*****	*****	98.7	Monthly	Calculated
Stage Type: End of Pipe	REQUIREMENT	*****	*****	*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Total Suspended Solids (TSS) (00330)	REPORTED	*****	*****	*****	3.1	2.9	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQUIREMENT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite

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OR: FIELD-SPECIFIC COMMENTS:
PERMITTEE COMMENTS:

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		
Gary F Hutchcraft		2020-05-01 09:09:38		
TYPED OR PRINTED NAME		SIGNATURE		
		Date		

Page 2

PERMITTEE NAME/ADDRESS

State of Missouri

Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65039

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY	
2020	04	01	TO	2020	04	30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTED	*****		328	*****	328	Monthly	Grab
Sludge Type: Instream Monitoring	REQUIREMENT	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	Monthly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OUTFALL-SPECIFIC COMMENTS
PARAMETER-SPECIFIC COMMENTS

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455	
Gary F Hutchcraft	Gary F Hutchcraft	2020-05-01 09:09:38	
TYPED OR PRINTED NAME	SIGNATURE	Date	

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State of Missouri
Department of Natural Resources
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Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2020	04	01		2020	06	30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Parameter	REPORTED	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Leadmium, total recoverable (01113)	REPORTED	*****		<5.0		Quarterly	Grab	
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	
Copper, total recoverable (01119)	REPORTED	*****		<10.0		Quarterly	Grab	
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	
Nitrogen, total (as N) (00600)	REPORTED	*****		34.0		Quarterly	Grab	
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	
Phosphorus, total (as P) (00665)	REPORTED	*****		4.2		Quarterly	Grab	
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
IC: DATA SPECIFIC COMMENTS:
PARAMETER SPECIFIC COMMENTS:

I, the undersigned, certify 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.

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PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455
Gary F. Hutchcraft	Gary F. Hutchcraft	2020-05-01 09:32:35
TYPED OR PRINTED NAME	SIGNATURE	Date

Page 1

State of Missouri
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4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP I
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM1 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2020	04	01		2020	06	30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter	REPORTED	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Nitrogen, total (as N) (00600)	REPORTED	*****		0.23		Quarterly	Grab	
Stage Type: Instream Monitoring	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	
Phosphorus, total (as P) (00665)	REPORTED	*****		<0.10		Quarterly	Grab	
Stage Type: Instream Monitoring	REQUIREMENT	*****		Daily Maximum: Monitoring Required		Quarterly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:
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PARAMETER SPECIFIC COMMENTS:

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Gary Hutchcraft		7305
TYPED OR PRINTED NAME		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		5733650455
Gary F. Hutchcraft	Gary F. Hutchcraft	2020-05-01 09:32:35
TYPED OR PRINTED NAME	SIGNATURE	Date

Page 2

1998	ADRI	1020
1999	ADRI	1000

Date: 4/12/2017



Tabulation Sheet for the Headworks Building Roof Replacement Project Bids

Date & Time Received	Bidding Contractor	Date & Time Opened	Project Item #	Bid Price	Warranty
5/13/20 @ 9:10 am	Above & Beyond Roofing	5/13/20 @ 1:00 pm	Standing Seam	\$43,875.00	2 year labor
			24 gauge Galvalume	\$50.00/sheet	45 year paint
			Alternate Exposed Fastener	\$30,000.00	2 year labor
			24 gauge Galvalume	\$50.00/sheet	45 year paint
No Bid	Midwest Roofing				
5/13/20 @ 12:38 pm	Missouri Builders Service	5/13/20 @ 1:02 pm	Standing Seam	\$42,105.00	2 year labor
			24 gauge Galvalume	Unknown	20 year paint
			Alternate Exposed Fastener	\$33,684.00	2 year labor
			24 gauge Galvalume	Unknown	20 year paint
No Bid	Osage Beach Roofing				

All above bids do not include any plywood sheathing that may need replaced.

Due to the unknown until the metal is removed there will be an added charge for each sheet used as shown below bid price.