

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JULY 21, 2020 @ 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, Greg Massey
Alderman, Lake Ozark, Judy Neels
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

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Regular Meeting: June 16, 2020 3-4

4. REPORTS

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Income & Expense Summary	12

June Alliance Report of Operations 15-30

Approval of Flow Charts June 2020

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 18, 2020 4:00 PM @ LAKE OZARK CITY HALL

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**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – June 16, 2020

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, June 16, 2020 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Absent
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:

City Administrator Van Dee motioned to approve the meeting minutes of May 19, 2020 his motion was seconded by Public Works Director Michalik, and passed unanimously.

REPORTS:

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

Alliance Report of Operations: The average daily incoming flow for May was 1.612 mgd. We had 5.3 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.9 mg/l and TSS of 2.6 mg/l respectively for May, which represents a 98.7% or better removal.

The MLSS average for both aeration basins was 5,624 mg/l. The total dry weight sludge inventory for May totaled 377,216 pounds. There were 35 tanker loads or 83,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Resident Member Hamner to approve the Flow Chart for May. His motion was seconded by City Administrator Van Dee. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Public Works Director Michalik stated he went through the plant today, they talked about the roofing project that will be getting started. He stated the plant looks good.

NEW BUSINESS:

- A. Review of the 2019 Joint Sewer Audit: The audit was offered up for review, there were no concerns by any of the Board. Karri Bell advised the audit was clean.
- B. Per Gary Johnson, Replacement parts have lasted between 8-9 years and original equipment last between 15-20 years. Since this will be the 2nd time replacing they felt it would be best to go with the original equipment. They got a quote from Smith and Loveless for the Pista Grit Chamber suction lift tube assembly for \$5,069 including freight. A motion to accept the bid and go with Smith and Loveless was made by Resident Member Hamner and seconded by Public Works Director Michalik. Unanimous approval, motion passed.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:20 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
JULY 21, 2020

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	42,626.81
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-
TOTAL	\$	42,626.81

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:			
Account	Check	Paid To:	Description: Amount:
4020			\$ -
4140			\$ -
			\$ -
TOTAL			\$ -

OPERATING FUND BILLS TO BE PAID:			
Account	Check	Paid To:	Description: Amount:
4000	275	Equipment Replacement Fund	Payment into ER Fund \$ 5,967.00
4020	276	Eastech Flow Contro	21082 RAS Flow meter repair \$ 440.00
4020	277	Grainger	9555537100 10 Mini Bulbs \$ 24.28
4020	278	Jani King	July \$ 195.00
4020	279	Lake Recharge	B0022 Service Fire Extinguishers \$ 171.09
4020	280	Menards	94681 Return Nozzle Adj. \$ (12.98)
4020	280	Menards	96303 Trash can, floor cleaner \$ 78.90
4020	281	USA Blue Book	280808 2' Ratchet Socket Wrench \$ 149.23
4150	282	O'Reilly Auto	301179 Replace Battery Sludge Trk \$ 111.70
4170	283	Alliance Water Resources, Inc.	July \$ 25,465.00
4175	284	Ameren MO	11673321 \$ 9,819.76
4175	284	Ameren MO	98041275 \$ 139.17
4176	285	AT&T	July \$ 78.66
			\$ -
			\$ -
TOTAL			\$ 42,626.81

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			\$ -
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 \$9,819.76

Due Date 07/31/2020

Current Detail for Statement 07/10/2020

Total Electric Charges **\$9,819.76**

Total Amount Due **\$9,819.76**

Amount After Due Date **\$9,967.06**

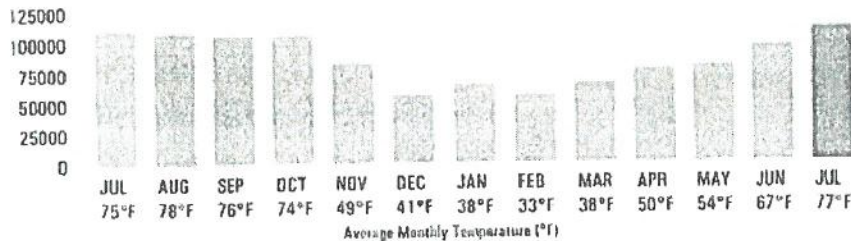
Previous Statement **\$8,900.69**

Total Payments **\$8,900.69**

Payment Received. Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

Your electric energy usage this year was about the same as last year.

2019 **549,760 kWh**

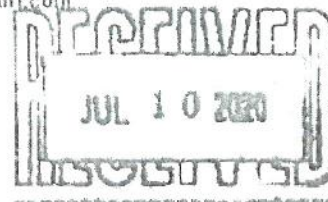
2020 **551,680 kWh**

Usage from Jan-Jul 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: 7/10/20



» See next page for service details.

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Page 1 of 4

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Amount Due	Due Date
\$9,819.76	July 31, 2020
Delinquent Amount After Due Date	Account Number
\$9,967.06	4580005832

Amount Enclosed \$

>000300 6360527 0006 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

00600000 0045800058302 000009819760 000009819760



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Electric Service Details Service from 06/08/2020 - 07/08/2020 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11873321	06/08 - 07/08	30	Total kWh	Actual	60438.0000	59747.0000	691.0000	160.0000	110560.0000
11873321	06/08 - 07/08	30	Peak kW	Actual	1.4610	0.0000	1.4610	160.0000	233.7600

Usage Summary

Total kWh	110560.0000	Peak kW	233.8000
Billing Demand	233.8000	Total Billing Demand	233.8000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Demand Charge	233.80	kW	@ \$ 5.40000000	\$1,262.52
Energy Charge/Hours Used	35,070.00	kWh	@ \$ 0.09690000	\$3,398.28
Energy Charge/Hours Used	46,760.00	kWh	@ \$ 0.07290000	\$3,408.80
Energy Charge/Hours Used	28,730.00	kWh	@ \$ 0.04910000	\$1,410.64
Customer Charge				\$95.29
Fuel Adjustment Charge	110,560.00	kWh	@ \$ 0.00207000	\$228.86
Energy Efficiency Investment Charge	110,560.00	kWh	@ \$ 0.00383900	\$424.44
Renewable Energy Adjustment	110,560.00	kWh	@ \$ 0.00044000	\$48.65
Total Service Amount				\$9,819.76
Total Electric Charges				\$9,819.76

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
June 22, 2020	\$8,900.69

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

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Address Changes or Corrections

Name _____
 Address _____
 City, State, Zip _____
 Phone Number _____

AmerenMissouri.com/WaysToPay

	ONLINE BILL PAY		PHONE 866.268.3729		IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM PAYSTATION
	ONLINE CREDIT CARD		MAIL STUB & CHECK		



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- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

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

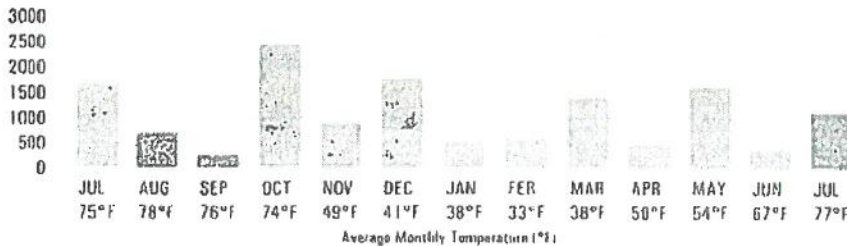
AMOUNT DUE **\$139.17**
Due Date **07/31/2020**

Current Detail for Statement 07/10/2020
Total Electric Charges \$139.17
Total Amount Due \$139.17

Amount After Due Date \$141.26
Previous Statement \$61.49
Total Payments \$61.49
Payment Received, Thank You.

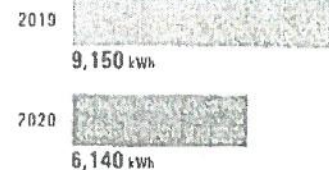
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 32.9% less than last year.

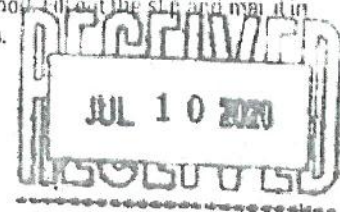


Usage from Jan-Feb for 2019 & 2020

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: 7/10/20



» See next page for service details.

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Amount Due	Due Date
\$139.17	July 31, 2020
Delinquent Amount After Due Date	Account Number
\$141.26	5580005920

Amount Enclosed \$

>000289 6360527 0006 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

10633000 0055800059200 000000139170 000000139170



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Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041275	06/08 - 07/08	30	Total kWh	Actual	20215.0000	20103.0000	112.0000	10.0000	1120.0000
98041275	06/08 - 07/08	30	Peak kW	Actual	5.0340	0.0000	5.0340	10.0000	50.3400

Usage Summary

Total kWh 1120.0000

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

Threshold Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Total Energy Charge	1,120.00	kWh	@ \$ 0.10430000	\$116.82
Customer Charge				\$19.99
Fuel Adjustment Charge	1,120.00	kWh	@ \$ 0.00207000	\$2.32
Energy Efficiency Investment Charge	1,120.00	kWh	@ \$ 0.00374300	\$4.19
Renewable Energy Adjustment	1,120.00	kWh	@ \$ 0.00044000	\$0.49
Total Service Amount				\$139.17
Total Electric Charges				\$139.17

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
June 22, 2020	\$61.49

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

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 Phone Number _____

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

Account Number	Account Name	6/30/2020					Percent YTD
		2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 6/30/2020	2020 June Revenue	
3020	Osage Beach	480,784.67	475,091.53	473,000.00	239,353.26	40,372.38	51%
3010	Lake Ozark	69,215.30	74,908.46	77,000.00	35,646.75	5,460.95	46%
3030	Misc.	1,485.00	0.00	0.00	4,500.00	4,500.00	0%
3100	Interest	1,484.82	4,286.79	1,400.00	211.04	1.95	15%
3060	Waste Haulers' Fee	25,780.00	26,260.00	29,000.00	14,940.00	720.00	52%
Total Operating Fund		578,749.79	580,546.78	580,400.00	294,651.05	51,055.28	51%
E/R Fund Income		4,281.74	9,001.77	4,000.00	1,238.30	75.38	31%
TOTAL INCOME		583,031.53	589,548.55	584,400.00	295,889.35	51,130.66	51%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2020

Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 6/30/2020	2020 June Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.00	71,606.00	35,802.00	5,967.00	50%
4020	*Maintenance & Repair	9,713.86	104,062.97	88,000.00	14,113.92	268.72	16%
4140	Insurance	18,475.25	18,761.00	19,200.00	19,770.00	0.00	103%
4150	Vehicle Repair/Maint	3,887.47	5,479.60	10,000.00	6,349.14	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	152,790.00	25,465.00	50%
4175	Electric	78,533.37	73,276.87	75,000.00	28,841.00	8,982.18	38%
4176	Utilities Misc.	0.00	3,717.52	3,100.00	1,687.06	78.65	54%
4190	Bank Charges	24.00	176.00	75.00	32.60	16.60	0%
4200	Audit	2,300.00	2,400.00	2,500.00	2,500.00	2,500.00	100%
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	261,885.72	43,258.15	45%
	**E/R Expenses	42,782.61	41,280.51	83,500.00	39,522.80	0.00	47%
	TOTAL EXPENSES	525,331.37	735,597.47	661,561.00	301,408.52	43,258.15	46%

*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 FALL 2020

88,000.00

**Equipment & Replacement

2019

Pista Grit Suction tube

5,500.00

RAS motor control ctr/elec panel

37,670.00

Replace lift stat on 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 Duck ng 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

83,500.00

OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2020

Beginning Balance	284,739.65
Income - Osage Beach	40,372.38
Income - Lake Ozark	5,460.95
Income - Other	-
Income - Waste Haulers' Fees	5,220.00
Interest - Checking	1.95
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers to E/R Fund	(5,967.00)
Expenses	(34,791.16)
Ending Fund Balance	295,036.77
Central Bank - NOW Acct.	81,229.09
	-
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:	-
	295,036.77

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2020

Beginning Balance	528,596.26
Interest - Checking	75.38
Income - CD Interest	-
Transfers to E/R Fund	5,967.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	534,638.64
First Bank of the Lake - Money Mkt.	118,438.23
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:	(236.25)
	534,638.64



**Naught-Naught
Agency**

1441 Christy Drive
Jefferson City, MO 65101

Phone: (800) 392-0423

Fax: (866) 779-8102

Invoice #	39419	Page	1 of 1
Account Number	Date		
LAKEOZA-01	6/29/2020		
BALANCE DUE ON			
6/29/2020			
AMOUNT PAID	Amount Due		
	(\$686.00)		

**Lake Ozark-Osage Beach Joint Sewer Treatment Plant
1000 City Parkway
Osage Beach, MO 65065**

Auto - Commercial		Policy Number: ETA 0484322		Effective: 4/10/2020 to 4/10/2021	
Item #	Trans Eff Dat	Due Date	Trans	Description	Amou
593459	6/5/2020	6/29/2020	ENDT	Endorsement for CAUT Effective 6/5/2020	(\$686.0
Total Invoice Balance:					(\$686.00

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MISSION**

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

**Alliance Water
Resources,
Inc.**

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

(573)874-8080

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

REPORT OF OPERATIONS

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

Month of June 2020

Submitted by Alliance Water Resources, Inc. for the

July 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 Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	2.0	1.8	N/A	0	0.60	< 4.8	< 1.0
Peak Day	2.7	2.1	7.9	0	2.00	< 4.8	< 1.0
Percent Removal	99.3	99.1	N/A	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Coliform Colonies/100 ml	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 1.957 MGD or 65% 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 147030 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 31,660 pounds dry weight solids.

60,975 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 585,000 gallons with a level of 6.0 feet in Tank 1 and 7.0 feet in Tank 2.

WASTEHAULERS

The plant received 6 loads of septage during the month totaling 18,000 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)
- The sludge truck got stuck on the 25th of June and then the air brakes started locking up on the 26th. We called in Tom Irwin our mobile mechanic due to the truck setting at the field but was not to able get him out there until after hours. He found a 3way air valve that needed replaced and had to order it but got it to where we could still use.
- We received the warrantied/repared RAS flow meter back from Eastech the week of the 22nd of June and got it reinstalled on the 29th but had problems trying to get it recalibrated. We called the manufacturer/Eastech and they said we needed to get someone in to help with the calibration process. We called Seth Agnew w/ Catalyst Electric and he has us on his schedule to come and recalibrate it and install the new Lake Ozark meter board that was purchased at the same time.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 6th of July.
- We set up samplers for our Annual Acute WET test on Monday June 1st and shipped on the 2nd. We received the lab results on June 16th, and everything was good at a 100% survival rate with both test organisms.
- MDNR was here on the 16th of June to set up a sampler on our effluent for compliance testing and they split the sample with us but have not received anything back them as of July 9th.

MISCELLANEOUS AND RECOMMENDATIONS

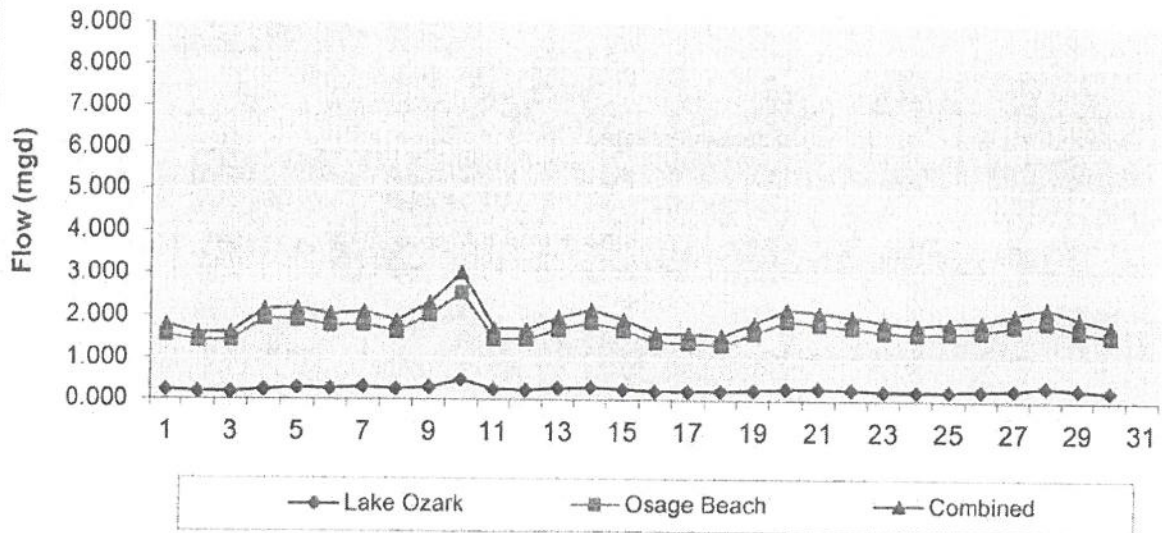
- We received a phone call from Above & Beyond Roofing on the headworks building roof replacement project. They said they were having a problem finding a company that can make the ridge caps, trim and flashings in the 24-gauge metal but have located one and will be starting the project as soon as everything is shipped. There has been a delay in the production of the sheet metal due to the corona virus but has a tentative ship date of August 1st, 2020.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 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-Jun	0	0.230	1.554	1.784	12.9	87.1						
2-Jun	0	0.184	1.421	1.605	11.5	88.5						
3-Jun	0	0.179	1.433	1.612	11.1	88.9						
4-Jun	1.5	0.231	1.927	2.158	10.7	89.3	365	358	320	142	152	204
5-Jun	0.2	0.280	1.902	2.182	12.8	87.2						
6-Jun	0	0.266	1.775	2.041	13.0	87.0						
7-Jun	0	0.302	1.802	2.104	14.4	85.6						
8-Jun	0	0.253	1.640	1.893	13.4	86.6						
9-Jun	2.25	0.291	2.026	2.317	12.6	87.4						
10-Jun	0.25	0.474	2.541	3.015	15.7	84.3						
11-Jun	0.2	0.249	1.467	1.716	14.5	85.5						
12-Jun	0	0.230	1.463	1.693	13.6	86.4	320	300	273	84	166	176
13-Jun	0	0.281	1.691	1.972	14.2	85.8						
14-Jun	0	0.299	1.859	2.158	13.9	86.1						
15-Jun	0.0	0.249	1.679	1.928	12.9	87.1						
16-Jun	0	0.209	1.394	1.603	13.0	87.0						
17-Jun	0	0.216	1.383	1.599	13.5	86.5						
18-Jun	0	0.218	1.337	1.555	14.0	86.0						
19-Jun	0	0.239	1.609	1.848	12.9	87.1	368	353	323	142	176	190
20-Jun	0	0.278	1.898	2.176	12.8	87.2						
21-Jun	0	0.290	1.821	2.111	13.7	86.3						
22-Jun	0	0.259	1.756	2.015	12.9	87.1						
23-Jun	0	0.221	1.654	1.875	11.8	88.2						
24-Jun	0	0.221	1.600	1.821	12.1	87.9						
25-Jun	0	0.231	1.635	1.866	12.4	87.6						
26-Jun	0	0.241	1.666	1.907	12.6	87.4	275	290	285	232	134	208
27-Jun	0	0.276	1.814	2.090	13.2	86.8						
28-Jun	0.3	0.342	1.904	2.246	15.2	84.8						
29-Jun	0	0.297	1.705	2.002	14.8	85.2						
30-Jun	0.1	0.244	1.580	1.824	13.4	86.6						
SUM	4.8	7.780	50.936	58.716								
AVG		0.259	1.698	1.957	13	87	332	325	300	150	157	195
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

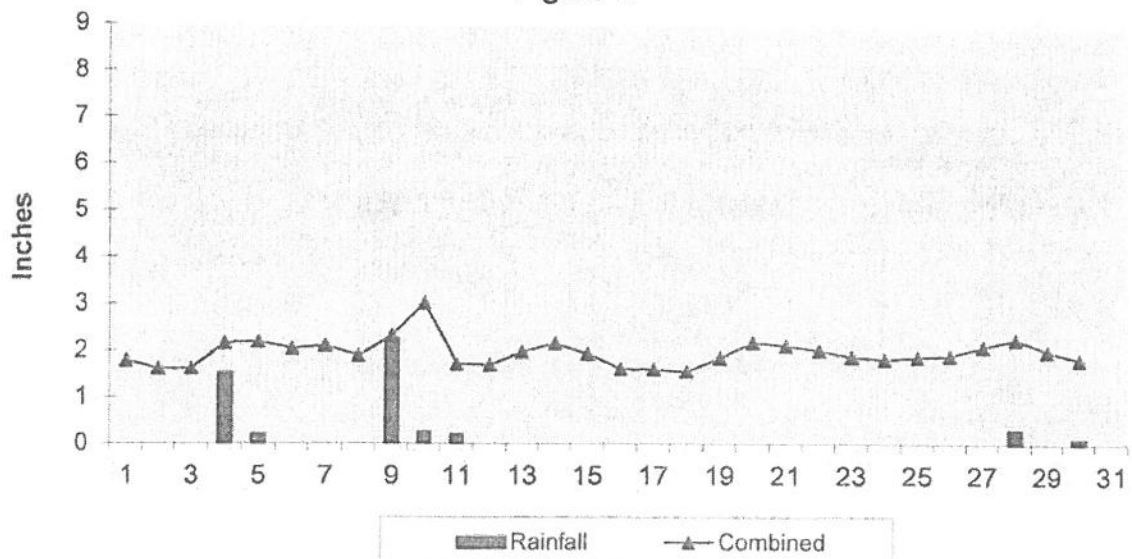


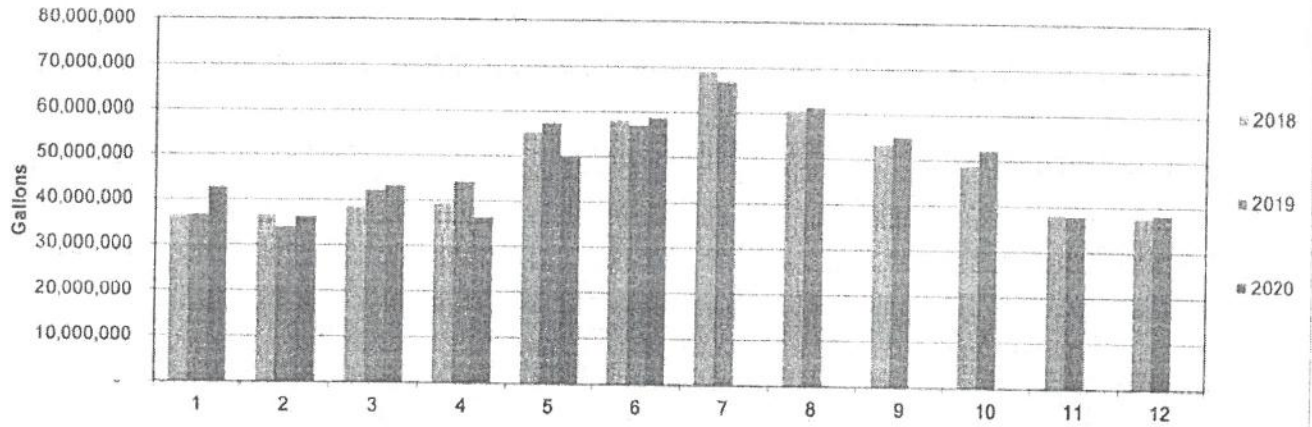
TABLE B
JOINT SEWER BOARD
Monthly Flows

<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%

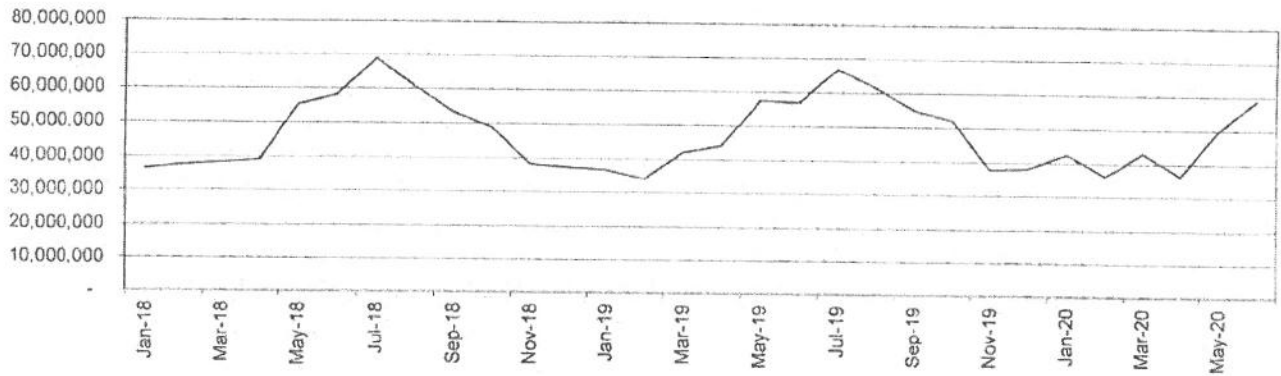
<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	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	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						-	
August						-	
September						-	
October						-	
November						-	
December						-	
	32.7	231,812,000	87%	35,201,000	13%	267,013,000	100%

Monthly Influent Flow
Figure 3A

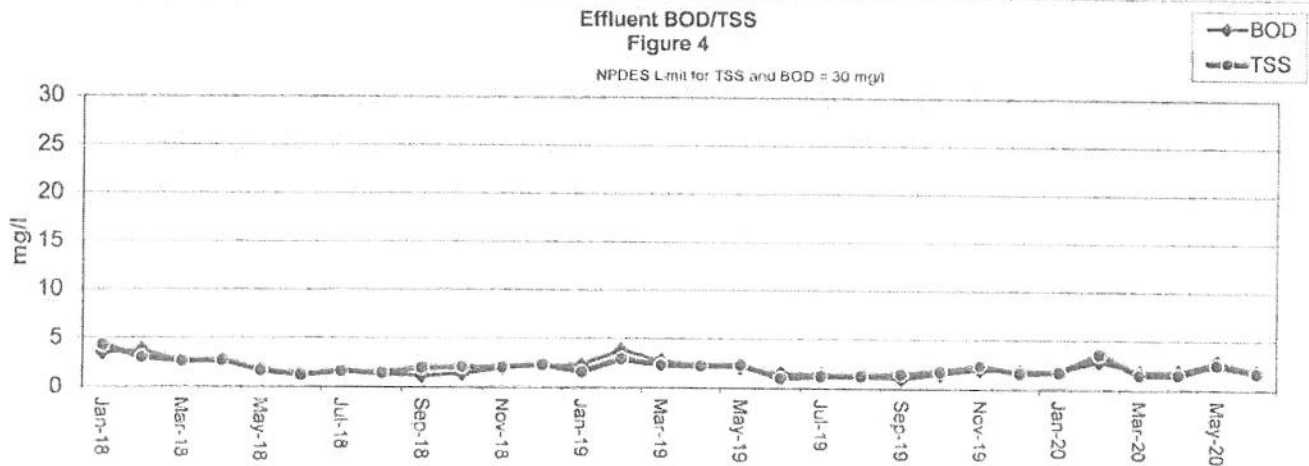


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

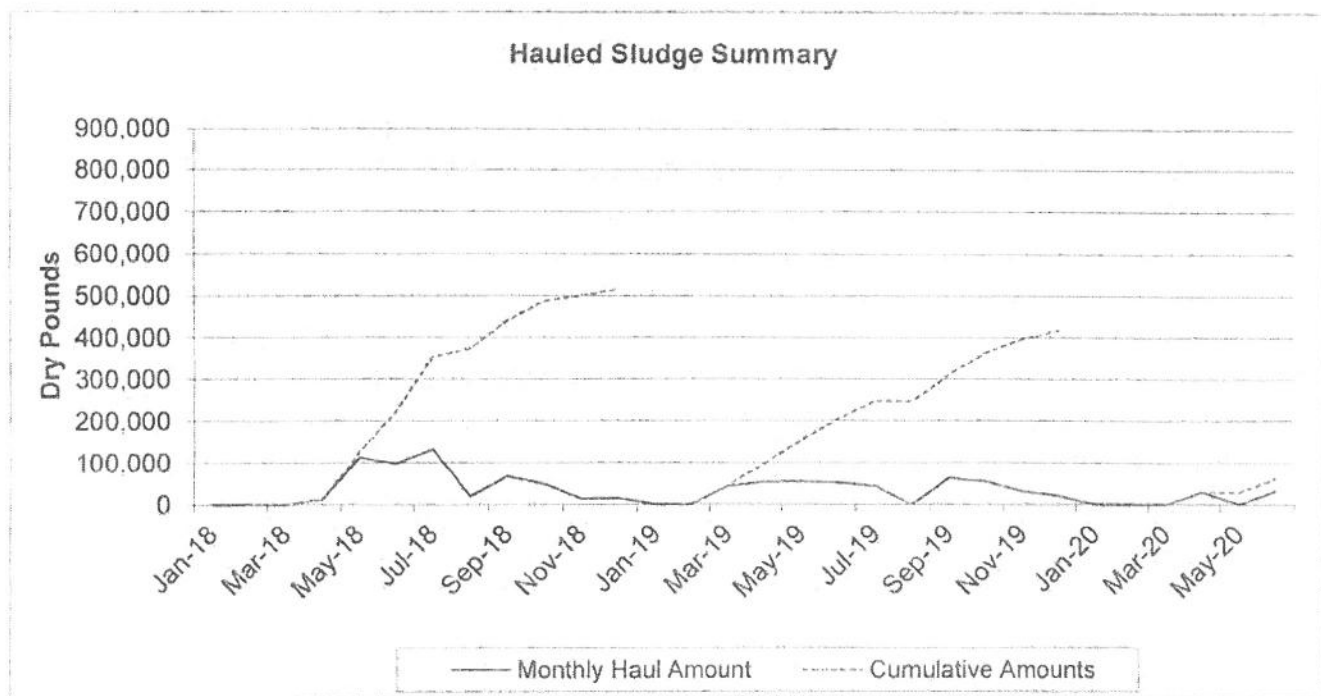
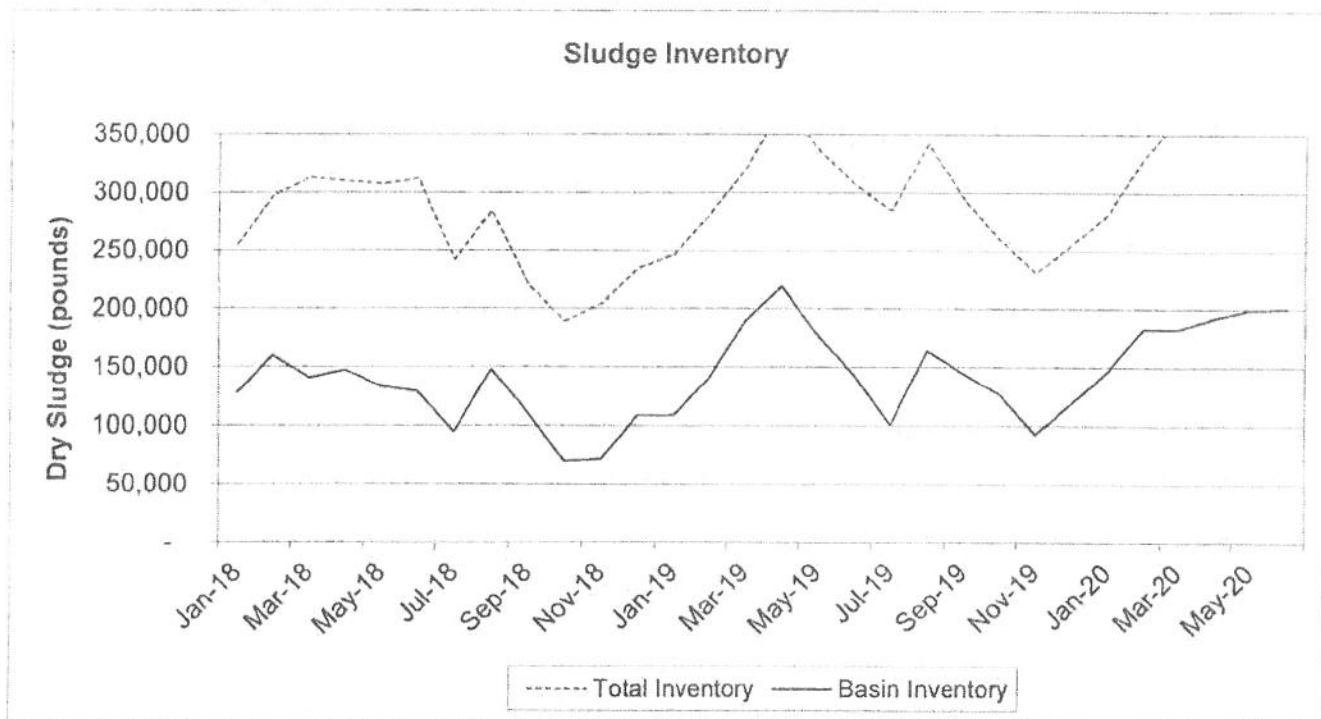


	Hauled Sludge				Annual Cumulative # Dry
	Loads	Gallons	# Dry	% Solids	
Jan-18	0	-	0	3.4%	-
Feb-18	0	-	0	3.4%	-
Mar-18	0	-	0	3.4%	-
Apr-18	11	40,700	12,096	3.6%	12,096
May-18	93	344,100	112,663	3.9%	124,769
Jun-18	89	325,000	97,758	3.8%	222,547
Jul-18	123	466,200	131,023	3.4%	353,570
Aug-18	12	44,400	19,441	5.3%	373,011
Sep-18	51	188,700	65,098	4.2%	438,109
Oct-18	39	140,600	48,447	4.1%	487,556
Nov-18	11	40,700	12,899	3.8%	500,455
Dec-18	14	51,800	14,688	3.4%	515,143
Jan-19	0	-	0	3.4%	-
Feb-19	0	-	0	3.4%	-
Mar-19	39	133,200	43,139	3.9%	43,139
Apr-19	39	144,300	53,940	4.5%	97,079
May-19	43	181,300	54,896	3.6%	151,945
Jun-19	44	162,800	51,872	3.6%	203,817
Jul-19	37	136,900	43,633	3.3%	247,450
Aug-19	0	-	0	3.6%	247,450
Sep-19	59	214,600	62,487	3.5%	309,937
Oct-19	50	185,000	54,742	3.5%	364,679
Nov-19	29	107,300	31,629	3.5%	396,308
Dec-19	17	62,900	20,643	3.6%	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	29,315	3.6%	29,315
May-20	0	-	0	3.8%	29,315
Jun-20	25	92,500	31,690	4.1%	60,975

Basin Depths					# Dry
Tank #1	Tank #2	AB #1	Basin	Gallons	
5.5	4.5	0.0	450,000	127,802	
7.5	5.0	0.0	562,500	159,503	
5.5	5.5	0.0	495,000	140,362	
5.0	6.0	0.0	405,000	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	94,853	
5.0	2.5	0.0	337,500	147,778	
4.5	2.5	0.0	315,000	110,338	
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	103,462	
6.0	5.0	0.0	495,000	140,362	
6.0	7.0	0.0	585,000	189,462	
5.5	7.5	0.0	585,000	218,676	
8.0	5.0	0.0	585,000	177,036	
7.0	3.0	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	125,498	
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	145,367	
6.5	6.0	0.0	562,500	182,959	
5.5	7.0	0.0	562,500	182,959	
6.0	7.5	0.0	607,500	192,528	
6.0	6.0	0.0	630,000	199,660	
6.0	7.0	0.0	585,000	200,228	

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	4,390	4,040	3,625,643	127,488	0.00422	255,090
2.0	4.0	1.0	4,880	3,920	3,750,030	137,610	0.0044	297,113
0.5	0.5	0.5	5,580	5,760	3,639,476	172,406	0.00569	312,759
0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655
0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00575	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	4,680	4,170	3,705,595	136,753	0.00443	284,531
0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00383	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	203,609
11.0	12.0	0.0	4,120	3,420	4,009,526	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	0.00466	291,503
0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033
1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,023
3.0	1.5	1.0	5,160	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	6,060	5,830	3,710,524	183,973	0.00595	284,370
5.0	3.0	0.5	5,690	5,690	3,763,810	177,982	0.00597	341,998
2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00469	294,741
2.5	3.0	1.0	4,170	4,350	3,741,119	132,916	0.00426	259,414
3.5	5.0	0.0	4,980	3,850	3,750,877	139,115	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	136,015	0.00448	282,382
3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676
2.0	5.0	1.0	5,760	5,940	3,787,762	183,825	0.00585	366,784
1.0	1.0	1.0	5,740	5,260	3,678,952	169,214	0.00562	361,742
1.0	7.0	1.0	5,584	5,663	3,785,524	177,557	0.00562	377,216
6.0	7.0	0.5	6,195	6,446	3,852,620	203,089	0.00632	403,327

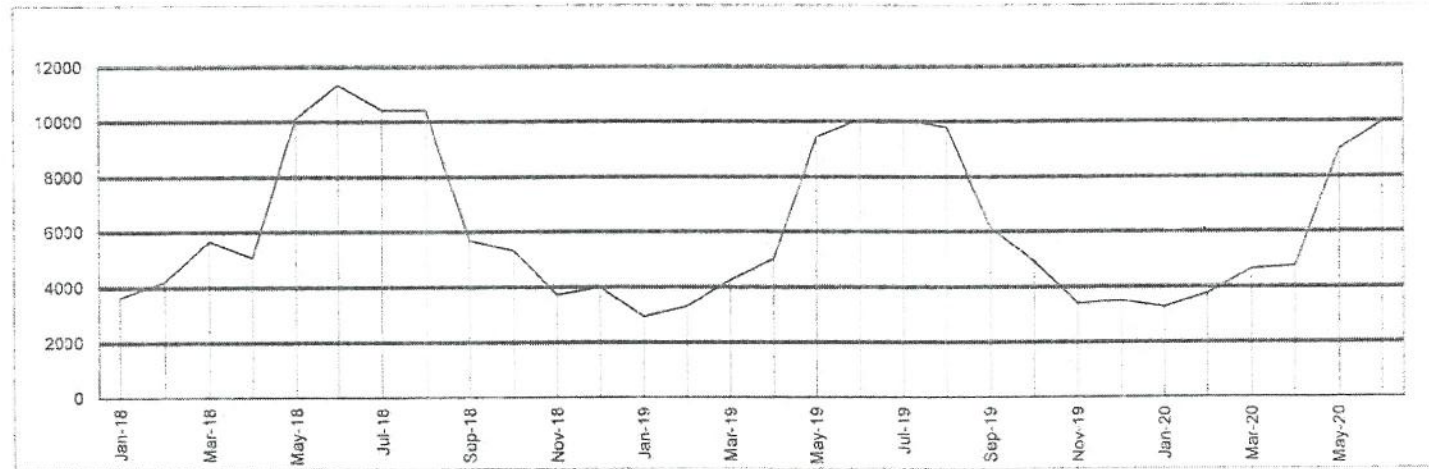
Accepted Septage	
Loads	Gallons
5	12,500
16	40,000
5	15,000
8	20,000
10	24,500
38	85,000
42	107,000
30	75,000
45	113,500
21	59,500
8	21,500
22	55,000
19	46,500
31	76,500
9	21,500
23	61,500
12	25,500
19	47,500
36	84,000
29	72,500
22	55,000
40	97,000
15	36,000
14	32,000
16	34,100
23	57,000
25	64,500
39	107,000
35	83,000
6	18,000



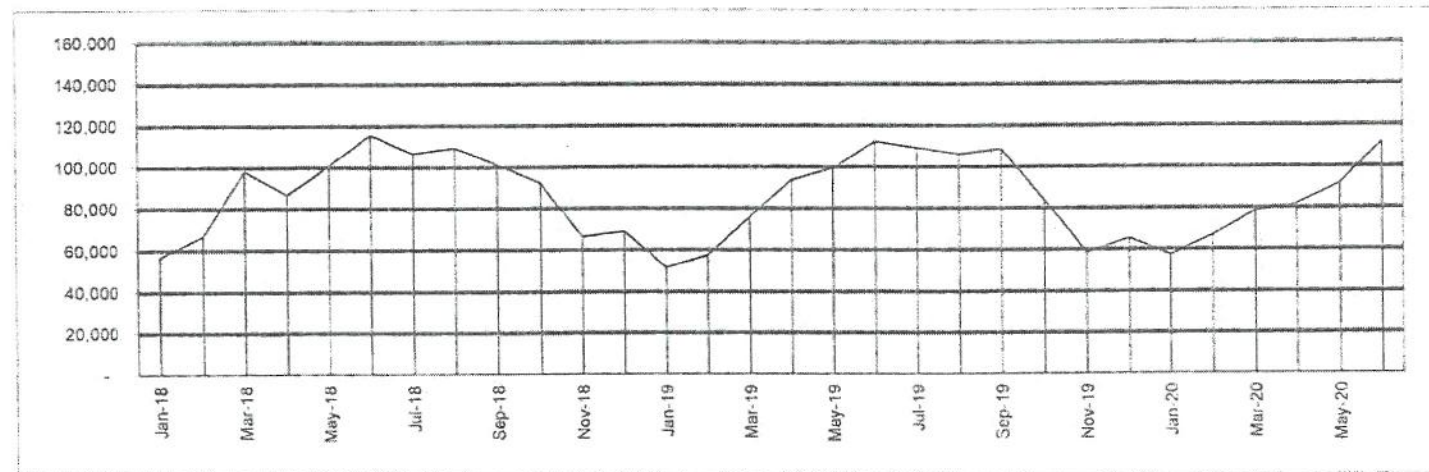
Electric Cost Kilowatts Used

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
May-20	8962	91,550
Jun-20	9959	111,680

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							
Jun-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			19.5	1.915	7.7				5.3	< 20	20.5		
2	7.4			20.1	1.683	7.9				5.9		21.3		
3	7.3			20.7	1.703	7.8			0.02	5.9		22.2		
4	7.3	320	204	20.1	2.294	7.7	1.3	2.0		4.1		21.8	99.6	99.0
5	7.0			20.1	2.381	7.6				5.0		22.1		
6	7.2			20.2	2.195	7.7				4.7		21.9		
7	7.3			21.2	2.241	7.7				5.3		23.0		
8	7.3			22.2	1.946	7.8				5.6	< 20	24.1		
9	7.1			21.7	2.378	7.4				3.7		23.1		
10	6.9			19.7	3.314	7.2				3.8		21.8		
11	6.9			20.9	1.913	7.2			1.8	4.8		21.9		
12	7.1	273	176	21.2	1.812	7.6	2.7	2.1		5.3		22.4	99.0	98.8
13	7.3			21.2	2.163	7.8				4.9		22.1		
14	7.2			21.6	2.285	7.8				5.3		22.3		
15	7.4			22.1	2.061	7.7				5.5	< 20	23.6		
16	7.2			21.7	1.664	7.7				4.9		23.6		
17	7.2			21.6	1.662	7.7				5.2		23.4		
18	7.2			22.1	1.681	7.7			0.04	5.4		23.3		
19	7.0	323	190	23.2	1.944	7.9	2.4	1.9		5.7		23.8	99.3	99.0
20	7.2			22.3	2.277	7.9				4.6		23.8		
21	7.1			22.7	2.315	7.8				5.3		23.6		
22	7.1			23.1	2.112	7.7				4.8	< 20	24.5		
23	7.0			22.5	2.018	7.7				5.5		23.7		
24	7.0			22.3	1.942	7.9				5.2		23.2		
25	7.0			22.3	1.993	7.8			0.03	4.9		23.4		
26	7.1	285	208	23.2	2.129	7.8	1.5	1.3		4.7		24.4	99.5	99.4
27	7.2			22.8	2.332	7.9				4.6		24.2		
28	7.1			23.1	2.540	7.7				4.3		24.2		
29	7.1			23.3	2.253	7.8				4.3	< 20	24.8		
30	7.1			24.3	2.059	7.8				4.1		25.8		
Total					63.205									
Avg		300	195	22	2.107		2.0	1.8	0.5	5.0	0.0	23.1	99.3	99.1
Min		6.9	273	176	1.662	7.2	1.3	1.3	0.0	3.7	0.0	20.5	99.0	98.8
Max		7.4	323	208	3.314	7.9	2.7	2.1	1.8	5.9	0.0	25.8	99.6	99.4

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	< 4.9	< 1.0	302	333						
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
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20										
21										
22										
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24										
25										
26										
27										
28										
29										
30										
Total	< 4.9	< 1.0	302	333						
Avg	< 4.9	< 1.0	302	333						
Min	< 4.9	< 1.0	302	333						
Max	< 4.9	< 1.0	302	333						

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		1.7	6,250	900	20.3	2.1	5,890	870	20.3	64	0	7:30
2		1.4	6,160	900	21.3	1.4	6,010	900	21.2	66	0	7:30
3		1.4	6,210	900	22.2	1.4	6,590	900	21.8	72	0	7:30
4		0.4	5,280	840	21.6	0.5	5,660	840	21.5	68	1.5	7:30
5		1.0	6,100	920	21.8	0.8	6,420	920	21.8	68	0.2	7:30
6		1.5	5,640	860	21.7	1.3	5,680	870	21.8	66	0	7:30
7		1.3	5,810	870	22.7	1.3	6,260	890	22.7	70	0	7:30
8		1.0	6,200	890	23.8	1.2	6,250	890	23.6	75	0	7:30
9		0.4	5,350	840	22.7	0.4	5,910	880	22.8	73	2.25	7:30
10		0.8	5,500	870	21.2	0.6	7,020	930	21.4	64	0.25	7:30
11		3.2	5,580	850	21.5	1.9	6,710	910	21.5	64	0.2	7:30
12		1.7	6,030	880	22.1	1.5	6,630	880	22.1	62	0	7:30
13		1.2	5,590	840	21.9	1.0	6,540	900	22.1	66	0	7:30
14		1.8	5,200	830	22.0	1.3	6,330	920	22.2	65	0	7:30
15		1.2	5,220	800	23.5	1.3	6,280	890	23.4	72	0	7:30
16		0.8	6,310	900	23.3	0.7	6,460	900	23.3	68	0	7:30
17		1.0	6,480	900	22.9	0.8	6,890	920	23.0	62	0	7:30
18		0.9	6,380	900	23.4	0.9	7,060	920	23.2	70	0	7:30
19		1.0	6,880	900	23.6	0.9	6,120	910	23.5	70	0	7:30
20		0.9	6,150	890	23.6	0.8	6,640	900	23.5	71	0	7:30
21		1.1	6,790	910	23.4	1.4	5,330	850	23.5	68	0	7:30
22		0.9	6,760	920	24.6	0.8	6,330	920	24.3	69	0	7:30
23		1.4	6,520	920	23.4	0.9	6,810	920	23.4	67	0	7:30
24		1.1	6,540	930	23.0	1.0	6,420	910	23.0	65	0	7:30
25	2,407	0.8	6,870	900	23.2	0.9	7,130	940	23.1	66	0	7:30
26	2,407	1.0	6,480	910	24.5	0.8	6,610	900	24.1	73	0	7:30
27		0.9	6,430	900	24.0	0.8	6,660	910	24.1	76	0	7:30
28		0.4	6,670	910	24.1	0.5	6,420	900	23.9	73	0.3	7:30
29	13,269	0.7	7,010	920	24.6	0.6	7,210	940	24.6	76	0	7:30
30	13,578	1.1	7,050	900	26.0	0.7	7,120	900	25.6	76	0.1	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE <i>ON VACATION</i>	PHONE # (573)365-0455	DATE
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE <i>Gary Hutchcraft</i>	PHONE # (573)365-0455	DATE 7/5/2020

*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
ADDRESS: 43 Anderson Road
LAKE OZARK, MO 65049

MO0103241 001 A
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
2020 06 01 2020 06 30

FROM

TO

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	*****		*****	2.7	2.0	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	*****		*****	*****	99.0	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 flow treatment plant (50050)	REPORTED	3,314	Mgd/d	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQUIREMENT	Daily Maximum: Monitoring Required		*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTED	*****		*****	1.8	0.47	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		*****	Daily Maximum: 6.0	Monthly Average: 1.1	Weekly	Grab
Oil and grease (soxhlet extr) tot. (00250)	REPORTED	*****		*****	<4.9	<4.9	Monthly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		*****	Daily Maximum: 15	Monthly Average: 10	Monthly	Grab
pH (00400)	REPORTED	*****		*****	7.2	7.9	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		*****	Minimum: 6.5	Maximum: 9.0	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OF THIS SPECIFIC COMMENTS
PARAMETER-SPECIFIC 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 the system, or those persons directly responsible for gathering the information, the information submitted to me is 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

Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft	Gary F Hutchcraft	5733650455	
TYPED OR PRINTED NAME	SIGNATURE	Date	
		2020-07-06 14:24:36	

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
ADDRESS: 43 Anderson Road
LAKE OZARK, MO 65049

MO0103241 001 A
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
2020 06 01 2020 06 30

FROM

TO

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 (00981)	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	*****		*****	*****	98.8	Monthly	Calculated
Stage Type: End of Pipe	REQUIREMENT	*****		*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTED	*****		*****	2.1	1.8	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQUIREMENT	*****		*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OF THIS 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		TELEPHONE	
Gary F Hutchcraft	Gary F Hutchcraft	5733650455	
TYPED OR PRINTED NAME	SIGNATURE	Date	
		2020-07-06 14:24:36	

Page 2

PERMITTEE NAME/ADDRESS

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)

NAME: Lake of the Ozarks Regional WWTP
ADDRESS: 63 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2020	06	01	2020	06	30

FROM TO

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	*****		333	*****	333	Monthly	Grab
Stage Type: Instream Monitoring	REQUIRED	*****		Daily Maximum Monitoring Required	*****	Monthly Average Monitoring Required	Monthly	Grab

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

OPERATOR IS RESPONSIBLE CHARGE				7305
Gary Hutchcraft		TYPED OR PRINTED NAME		
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		CERTIFICATE NUMBER		
Gary F Hutchcraft		TELEPHONE		
Gary F Hutchcraft		2020-07-06 14:24:36		
TYPED OR PRINTED NAME		SIGNATURE		
		Date		

Page 3

1828 九月 廿二	2028 九月 廿二
1829 十月 初九	2029 十月 初九
1830 十月 廿六	2030 十月 廿六
1831 十一月 十三	2031 十一月 十三
1832 十一月 三十	2032 十一月 三十
1833 十二月 十七	2033 十二月 十七
1834 十二月 廿四	2034 十二月 廿四
1835 一月初五	2035 一月初五
1836 正月 廿二	2036 正月 廿二
1837 二月初九	2037 二月初九
1838 二月 廿六	2038 二月 廿六
1839 三月初五	2039 三月初五
1840 三月 廿二	2040 三月 廿二
1841 四月初九	2041 四月初九
1842 四月 廿六	2042 四月 廿六
1843 五月初五	2043 五月初五
1844 五月 廿二	2044 五月 廿二
1845 六月初九	2045 六月初九
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1848 七月 廿二	2048 七月 廿二
1849 八月初九	2049 八月初九
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1851 九月初五	2051 九月初五
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1859 一月初五	2059 一月初五
1860 正月 廿二	2060 正月 廿二
1861 二月初九	2061 二月初九
1862 二月 廿六	2062 二月 廿六
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1866 四月 廿六	2066 四月 廿六
1867 五月初五	2067 五月初五
1868 五月 廿二	2068 五月 廿二
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1875 九月初五	2075 九月初五
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1877 十月初九	2077 十月初九
1878 十月 廿六	2078 十月 廿六
1879 十一月初五	2079 十一月初五
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1883 一月初五	2083 一月初五
1884 正月 廿二	2084 正月 廿二
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1887 三月初五	2087 三月初五
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1891 五月初五	2091 五月初五
1892 五月 廿二	2092 五月 廿二
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1895 七月初五	2095 七月初五
1896 七月 廿二	2096 七月 廿二
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1898 八月 廿六	2098 八月 廿六
1899 九月初五	2099 九月初五
1900 九月 廿二	2100 九月 廿二
1901 十月初九	2101 十月初九
1902 十月 廿六	2102 十月 廿六
1903 十一月初五	2103 十一月初五
1904 十一月 廿二	2104 十一月 廿二
1905 十二月初九	2105 十二月初九
1906 十二月 廿六	2106 十二月 廿六
1907 一月初五	2107 一月初五
1908 正月 廿二	2108 正月 廿二
1909 二月初九	2109 二月初九
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1911 三月初五	2111 三月初五
1912 三月 廿二	2112 三月 廿二
1913 四月初九	2113 四月初九
1914 四月 廿六	2114 四月 廿六
1915 五月初五	2115 五月初五
1916 五月 廿二	2116 五月 廿二
1917 六月初九	2117 六月初九
1918 六月 廿六	2118 六月 廿六
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1920 七月 廿二	2120 七月 廿二
1921 八月初九	2121 八月初九
1922 八月 廿六	2122 八月 廿六
1923 九月初五	2123 九月初五
1924 九月 廿二	2124 九月 廿二
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1926 十月 廿六	2126 十月 廿六
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1928 十一月 廿二	2128 十一月 廿二
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1931 一月初五	2131 一月初五
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1935 三月初五	2135 三月初五
1936 三月 廿二	2136 三月 廿二
1937 四月初九	2137 四月初九
1938 四月 廿六	2138 四月 廿六
1939 五月初五	2139 五月初五
1940 五月 廿二	2140 五月 廿二
1941 六月初九	21

The following abbreviations were used: Kapsak, Kasnak; Cevizci, Cevic; FG, fourth grade.

Date: 7-6-2020