

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
OCTOBER 20, 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, 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: September 15, 2020 3-4

4. REPORTS

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September Alliance Report of Operations 19-38

Approval of Flow Charts September 2020

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Discussion and possible action regarding the 2021 budget 39-44

B. Discussion and approval of replacement liftstaton pump 45

C. Discussion and possible action of bid for sandblast and paint clarifier #2

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE NOVEMBER 17, 2020 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD**
Meeting Minutes – September 15, 2020

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, September 15, 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 - Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Phyllis Marose- Present
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

City Administrator Woods motioned to approve the meeting minutes of August 18, 2020 her motion was seconded by City Administrator Van Dee, and passed unanimously.

REPORTS:

The August 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 Alderman Neels, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for August was 1.946 mgd. We had 2.3 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.5 mg/l and TSS of 1.8 mg/l respectively for August, which represents a 99.1% or better removal.

The MLSS average for both aeration basins was 6,765 mg/l. The total dry weight sludge inventory for August totaled 337,87 pounds. 76 loads or 281,200 gallons of Bio solids was applied in August. There were 39 tanker loads or 107,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by City Administrator Woods to approve the Flow Chart for August. Her motion was seconded by Resident Member Hamner. Unanimous approval, motion passed.

OLD BUSINESS:

A. Per Gary Hutchcraft they will be starting on the roof 9/21/2020. All the metal is there now.

NEW BUSINESS:

A. Report of action regarding the Board approval, authorizing the President of the Board to execute a four (4) year contract with Gerding, Korte & Chitwood, CPAs for auditing services for the 2020 to 2023 Annual Audits, in an amount not to exceed Year 2020 = \$2,600, Year 2021 = \$2,700, Year 2022 = \$2,800, Year 2023 = \$2,900. A motion to execute the four-year contract with Gerding, Korte & Chitwood, CPAs was made by Public Works Director Michalik. His motion was seconded by City Administrator Van Dee. Unanimous approval, motion passed.

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:11 pm.

Approved on:

Mayor, John Olivarri

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
OCTOBER 20, 2020

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 199.60
OPERATING FUND BILLS TO BE PAID:	\$ 44,907.41
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -

TOTAL \$ 45,107.01

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	309	USA Blue Book	340920 Return Float Switches	\$ (207.80)
4020	319	Mission Comm.	1044526 Annual Auto-Dialer Fee	\$ 407.40
				\$ -
TOTAL				\$ 199.60

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	320	Equipment Replacement Fund	Payment into ER Fund	\$ 5,967.00
4000		Hupp Electric Motors	298908 Replacement Bar Screen Motor	\$ 259.69
4020		Catalyst Electric	12014 Clarifier #1 repairs	\$ 2,160.86
4020		Controlled Heating	92220 Tune-Up Service - 3 units	\$ 208.15
4020		Core & Main	54858 HTH for cleaning Clarifiers	\$ 419.67
4020		Grainger	150947 Relays for Clarifiers	\$ 158.68
4020		Grainger	97807 Lab Fridge repairs	\$ 38.78
4020		JCI Industries, Inc.	8201935 Impeller & Volute Seal	\$ 2,350.00
4020		Lake Sun Leader	21871 Bid Clarifier Project	\$ 222.75
4020		Majestic Franchising	Cleaning October	\$ 196.17
4020		M/C University MO	Soil Samples	\$ 123.60
4020		M/C University MO	Soil Samples	\$ 18.03
4020		Menards	1636 Electrical Spade Conn	\$ 5.96
4020		Skiltons Key & Lock	92320 Door latch repair	\$ 100.00
4020		Technical Services	19950 Bi-Annual Calibration	\$ 134.45
4020		Technical Services	20025 Bump Test Kit for O2 Meter	\$ 340.00
4150		Irwin Diesel Repair	4815 Sludge Truck Repair	\$ 957.73
4150		O'Reilly	322544 Radiator Hose Return	\$ (35.60)
4150		O'Reilly	322864 Sludge Truck Filter	\$ 12.48
4170		Alliance Water Resources, Inc.	October	\$ 25,465.00
4175		Ameren MO	11673321	\$ 5,492.10
4175		Ameren MO	98041275	\$ 177.25
4176		AT&T	Phone October	\$ 79.37
4176		Republic	October	\$ 55.29
				\$ -
TOTAL				\$ 44,907.41

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

TOTAL \$ -

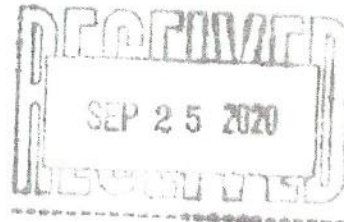
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

TOTAL \$ -

Invoice

Date	Invoice #
9/24/2020	12014

Bill To
Joint Sewer Board #3 Anderson Road Lake Ozark, MO



P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
1	3P CONTACTOR	150.00	150.00
2	3P OVERLOAD	88.725	177.45
<i>RAS FLOW METER CALIBRATION, GOT DUCKING SKIMMER ON CLARIFIER #1 WORKING ON MANUAL + REPAIRED MAIN FEED WIRE TO CLARIFIER #1</i> GL Acct#: <u>4020</u> Signature: <u>[Signature]</u> Date: <u>9/25/20</u>			

Thank you for your business!

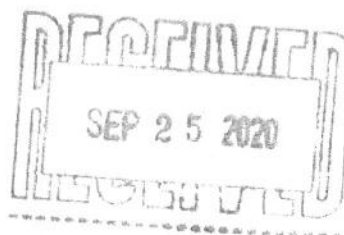
Total	\$2,160.86
Payments/Credits	\$0.00
Balance Due	\$2,160.86

Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com

Invoice

Date	Invoice #
9/24/2020	12014

Bill To
Joint Sewer Board #3 Anderson Road Lake Ozark, MO



		P.O. No.	Terms	Project
			Net 30	
Quantity	Description	Rate	Amount	
15	Electricians: Zach and Clayton Date: 08/05/2020 - Calibrated RAS sensors. - Went through troubleshooting steps for sensors. - Repaired broken seal going to clarifier station.	60.00	900.00	
9	Electricians: Seth and Zach Date: 09/09/2020 - Troubleshoot and wired actuator. - Troubleshoot RAS sensors.	60.00	540.00	
5.5	Electricians: Zach and Charles Date: 09/21/2020 - Replaced contact and overloads for actuator. - Calibrated RAS sensors.	60.00	330.00	
1	4X4X2 PVC J BOX	13.208	13.21	
2	3/4" PVC COUP	0.169	0.34	
1	3/4" PVC TA W/ LOCK RING	0.65	0.65	
5	3/4" RIGID I-FL STRAP	0.819	4.10	
10	TAPCON	0.325	3.25	
20	WIRE NUT	0.117	2.34	
15	FT 3/4" SEAL TIGHT	1.235	18.53	
2	3/4" STRAIGHT SEAL TIGHT CONN	4.693	9.39	
51	FT #12 THHN	0.156	7.96	
2	FT 3/4" PVC	1.82	3.64	
Thank you for your business!		Total		
		Payments/Credits		
		Balance Due		

Phone #	Fax #	E-mail	Web Site
573-552-8488	573-552-8248	office@catalystelectric.com	www.catalystelectric.com

INVOICE

Remit To:

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



INVOICE	
8201935	
Invoice Date	Page
09/25/2020	1 of 1
ORDER NUMBER	
1180602	

Branch 06

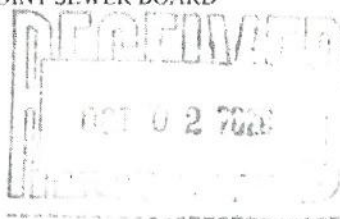
JEFFERSON CITY

Bill To:

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

Ship To:

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



Customer ID: 400263

PO Number					Term Description		Net Due Date		
GARY HUTCHCRAFT-I					Net 30		10/25/2020		
Order Date		Pick Ticket No		Primary Salesrep Name			Order Taker		
9/11/2020 13:19:39		3193762		Ben Reinkemeyer JJ			HHASKELL		
Quantities					Item ID Item Description		Pricing UOM Unit Size	Unit Price	Extended Price
Ordered	Shipped	Remaining	UOM Unit Size	Disp.					
1.00	1.00	0.00	EA		P FLYGT 09-11-2020		EA	2,350.00	2,350.00
			1.0		FLYGT PUMP 10HP 3127.		1.0000		

Total Lines: 1

SUB-TOTAL: 2,350.00

TAX: 0.00

AMOUNT DUE: 2,350.00

Carrier: BEST WAY

Trucking #:

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

NEW IMPELLER + Volute SEAL FOR LIFT STATION PUMP

GL Acct #: 4020

Signature: Gary Hutchcraft

Date: 10/2/20

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

ORIGINAL



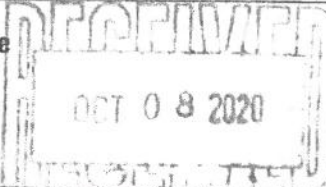
- Pay by phone: 1.866.268.3729
- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

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

Current Detail for Statement 10/08/2020

Total Electric Charges **\$5,492.10**
 Total Amount Due **\$5,492.10**



AMOUNT DUE \$5,492.10

Due Date 10/29/2020

Amount After Due Date **\$5,574.48**

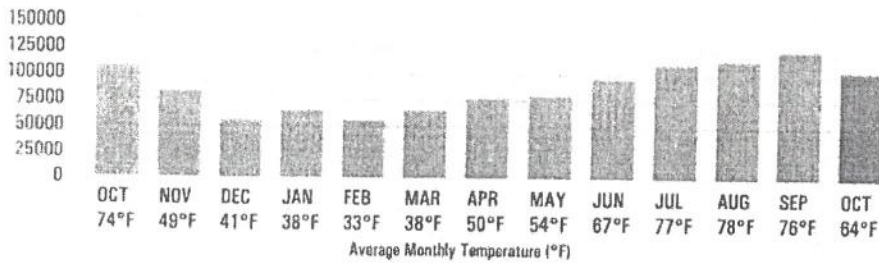
Previous Statement **\$10,428.45**

Total Payments **\$10,428.45**

Payment Received. Thank You.

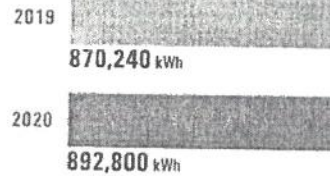
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **2.6%** more than last year.



Usage from Jan-Oct for 2018 & 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.

IL Acct#: 4175

Signature: [Handwritten Signature]

Date: 10/8/20



» See next page for service details.

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Page 1 of 4

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Amount Due	Due Date
\$5,492.10	October 29, 2020
Delinquent Amount After Due Date	Account Number
\$5,574.48	4580005832

Amount Enclosed \$ _____

>000211 6422706 0002 092139 10Z

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

20600000 0045800058302 000005492100 000005492100



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- Customer Service: 1.877.426.3736

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Electric Service Details

Service from 09/07/2020 - 10/06/2020 (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	09/07 - 10/06	29	Total kWh	Actual	62570.0000	61920.0000	650.0000	160.0000	104000.0000
11673321	09/07 - 10/06	29	Peak kW	Actual	1.4180	0.0000	1.4180	160.0000	226.8800

Usage Summary

Total kWh	104000.0000	Peak kW	226.9000
Total Billing Demand	226.9000	Current Base Demand	176.2000
Base kWh Ratio	0.7765	Base kWh (HUD)	80756.0000
Seasonal kWh (HUD)	23244.0000	October Base Demand	176.2000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Seasonal Energy Charge	23,244.00	kWh	@	\$ 0.03560000	\$827.49
Demand Charge	226.90	kW	@	\$ 2.00000000	\$453.80
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	19,086.00	kWh	@	\$ 0.03560000	\$679.46
Customer Charge					\$95.29
Fuel Adjustment Charge	104,000.00	kWh	@	\$-0.00203274	\$-211.40
Energy Efficiency Investment Charge	104,000.00	kWh	@	\$ 0.00383900	\$399.26
Renewable Energy Adjustment	104,000.00	kWh	@	\$ 0.00044000	\$45.76
Total Service Amount					\$5,492.10
Total Electric Charges					\$5,492.10

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
September 23, 2020	\$10,428.45

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

Page 2 of 4

Address Changes or Corrections

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

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E-CHECK



PHONE
866.268.3729



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ONLINE
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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 \$177.25

Due Date 10/29/2020

Amount After Due Date \$179.91

Previous Statement \$190.25

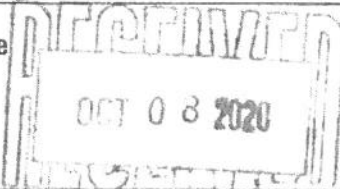
Total Payments \$190.25

Payment Received. Thank You.

Current Detail for Statement 10/08/2020

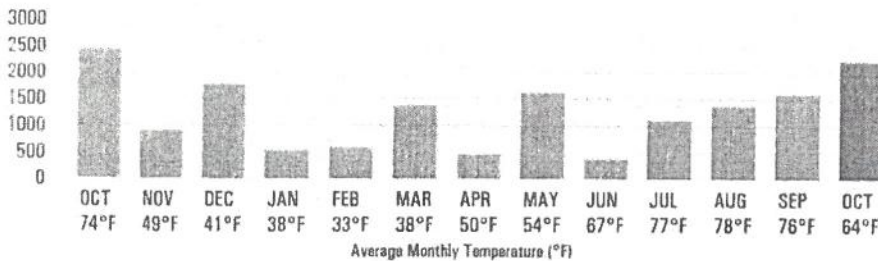
Total Electric Charges \$177.25

Total Amount Due \$177.25



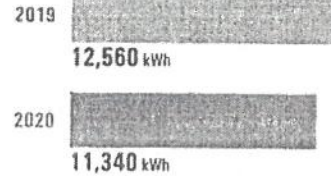
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **9.7% less** than last year.



Usage from Jan-Oct 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.

Acc#: 4175
Signature: Ray Hultberg
Date: 10/8/20

57158 13073
00086 6422706 000100 000196 000100002



» See next page for service details.

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Page 1 of 4

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Amount Due	Due Date
\$177.25	October 29, 2020
Delinquent Amount After Due Date	Account Number
\$179.91	5580005920

Amount Enclosed \$

>000006 6422706 0002 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

70633000 0055800059200 000000177250 000000177250



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

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Electric Service Details

Service from 09/07/2020 - 10/06/2020 (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	09/07 - 10/06	29	Total kWh	Actual	20735.0000	20513.0000	222.0000	10.0000	2220.0000
98041275	09/07 - 10/06	29	Peak kW	Actual	4.3660	0.0000	4.3660	10.0000	43.6600

Usage Summary

Total kWh	2220.0000	Base kWh	1600.0000
Winter Base kWh	1600.0000	Current October Base kWh	1600.0000
Seasonal kWh	620.0000		

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	620.00	kWh	@	\$ 0.04490000	\$27.84
Customer Charge					\$19.99
Fuel Adjustment Charge	2,220.00	kWh	@	\$-0.00203274	\$-4.51
Energy Efficiency Investment Charge	2,220.00	kWh	@	\$ 0.00374300	\$8.31
Renewable Energy Adjustment	2,220.00	kWh	@	\$ 0.00044000	\$0.98
Total Service Amount					\$177.25
Total Electric Charges					\$177.25

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
September 23, 2020	\$190.25

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

Page 2 of 4

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Address _____
City, State, Zip _____
Phone Number _____

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

		9/30/2020					Percent YTD
Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 9/30/2020	2020 September Revenue	
3020	Osage Beach	480,784.67	475,091.53	473,000.00	358,801.48	39,762.90	76%
3010	Lake Ozark	69,215.30	74,908.46	77,000.00	53,698.52	6,070.43	70%
3030	Misc.	1,485.00	0.00	0.00	4,500.00	0.00	0%
3100	Interest	1,484.82	4,286.79	1,400.00	2,914.75	2.76	208%
3060	Waste Haulers' Fee	25,780.00	26,260.00	29,000.00	33,840.00	4,180.00	117%
Total Operating Fund		578,749.79	580,546.78	580,400.00	453,754.75	50,016.09	78%
E/R Fund Income		4,281.74	9,001.77	4,000.00	7,178.29	0.00	179%
TOTAL INCOME		583,031.53	589,548.55	584,400.00	460,933.04	50,016.09	79%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
9/30/2020

Account Number	Account Name	2018 Actual	2019 Actual	2020 Budget	2020 Actual as of 9/30/2020	2020 September Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.00	71,606.00	53,703.00	5,967.00	75%
4020	*Maintenance & Repair	9,713.86	104,062.97	88,000.00	21,419.99	4,050.68	24%
4140	Insurance	18,475.25	18,761.00	19,200.00	19,084.00	0.00	99%
4150	Vehicle Repair/Maint	3,887.47	5,479.60	10,000.00	9,531.99	372.49	95%
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	229,185.00	25,465.00	74%
4175	Electric	79,533.37	73,276.87	75,000.00	59,518.71	10,618.60	79%
4176	Utilities Misc.	0.00	3,717.52	3,100.00	2,095.02	249.57	68%
4190	Bank Charges	24.00	176.00	75.00	32.60	0.00	0%
4200	Audit	2,300.00	2,400.00	2,500.00	2,648.50	0.00	106%
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	397,218.81	46,723.34	69%
	**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	436,741.61	46,723.34	66%

***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 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

X

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

83,500.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY

9/30/2020

Beginning Balance	313,773.98
Income - Osage Beach	39,762.90
Income - Lake Ozark	6,070.43
Income - Other	-
Income - Waste Haulers' Fees	4,180.00
Interest - Checking	2.76
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers to E/R Fund	(5,967.00)
Expenses	(41,515.69)
Ending Fund Balance	316,307.38
Central Bank - NOW Acct.	100,395.19
	-
CD First Bank of the Lake, 2/20/21 #101318432	105,437.02
CD First Bank of the Lake, 4/22/21 #101318433	111,066.65
	-
Outstanding Checks:	(591.48)
	316,307.38

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY

9/30/2020

Beginning Balance	552,512.63
Interest - Checking	-
Income - CD Interest	-
Transfers to E/R Fund	5,967.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	558,479.63
First Bank of the Lake - Money Mkt.	77,121.46
CD First Bank of the Lake, 11/07/21 #101318434	270,000.00
CD First Bank of the Lake, 2/20/21 #101318431	103,542.19
CD First Bank of the Lake, 7/30/21 #101318430	108,052.23
	-
Outstanding Checks:	(236.25)
	558,479.63

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**OUR
MISSION**

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

**Alliance Water
Resources,
Inc.**

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

(573)874-8080



REPORT OF OPERATIONS

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

Month of September 2020

Submitted by Alliance Water Resources, Inc. for the

October 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	1.2	1.6	N/A	< 20		0.24	< 4.9	< 1.0
Peak Day	1.3	2.1	7.8	< 20		0.55	< 4.9	< 1.0
Percent Removal	99.4	99.7	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 1.662 MGD or 55% 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 89320 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 38 tanker loads of bio-solids during the month equivalent to a total of 140,600 gallons and 41,627 pounds dry weight solids.

263,156 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 382,500 gallons with a level of 4.0 feet in Tank 1 and 4.5 feet in Tank 2.

WASTEHAULERS

The plant received 45 loads of septage during the month totaling 104,500 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 received the backup bar screen for the UV system and a replacement RAS pump wear ring on the 5th of September.
- We pulled the flygt lift station pump that was budgeted for a replacement impeller and volute seal and JCI picked it up on the 11th of September and got it back to us on the 23rd.
- Catalyst Electric came out in early August to try and calibrate the replacement RAS flow meter that was replaced earlier this year under warranty and while they were here we had them look at the problems we were having with the ducking skimmer arm on clarifier #1. They had to do some rewiring and troubleshooting but finally figured it out and got it going on manual. They had to order some contactor/overloads and was back on the 21st of September to finish up on the ducking skimmer arm controls and the flow meter calibration.

SAFETY

- We conducted our monthly routine Safety Meeting on Confined Space Awareness & ReCap Training on the 10th of September.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 8th of October.
- We received the results for our annual in-house DMRQA Study 40 which was completed in September 2020 and all results were acceptable, which is **excellent**. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

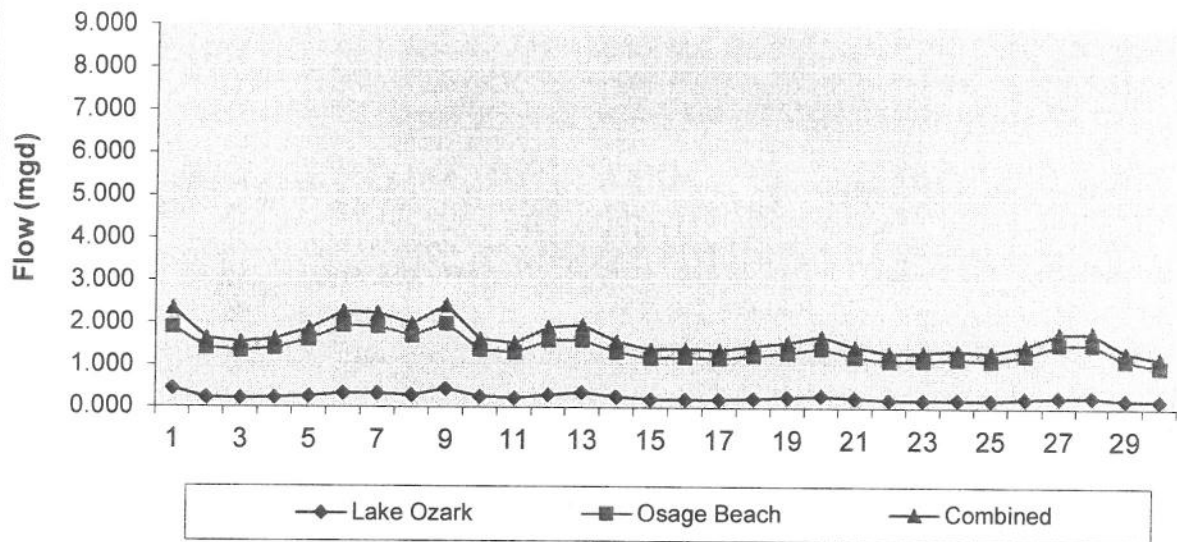
- We solicited bids for a replacement lift station pump that was budgeted for in 2020. (see attached bid sheet)
- We advertised the clarifier #2 sandblast & paint project in the legal/public notice section of the Lake Sun newspaper on the 9th of October and sent out 11 invitations. The bid opening is the 19th and I will bring the bid tabulation sheet with me to the Joint Board Meeting for discussion and possible approval.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF September 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-Sep	3.7	0.444	1.902	2.346	18.9	81.1						
2-Sep	0	0.225	1.413	1.638	13.7	86.3						
3-Sep	0	0.210	1.341	1.551	13.5	86.5						
4-Sep	0	0.218	1.402	1.620	13.5	86.5	143	103	158	134	88	212
5-Sep	0	0.260	1.606	1.866	13.9	86.1						
6-Sep	0	0.329	1.943	2.272	14.5	85.5						
7-Sep	0	0.330	1.914	2.244	14.7	85.3						
8-Sep	0	0.284	1.706	1.990	14.3	85.7						
9-Sep	1.9	0.438	1.990	2.428	18.0	82.0						
10-Sep	0	0.256	1.372	1.628	15.7	84.3						
11-Sep	0	0.227	1.308	1.535	14.8	85.2	105	165	145	88	296	170
12-Sep	1	0.301	1.604	1.905	15.8	84.2						
13-Sep	0	0.360	1.602	1.962	18.3	81.7						
14-Sep	0	0.255	1.324	1.579	16.1	83.9						
15-Sep	0.0	0.200	1.189	1.389	14.4	85.6						
16-Sep	0	0.194	1.207	1.401	13.8	86.2						
17-Sep	0	0.196	1.179	1.375	14.3	85.7						
18-Sep	0	0.220	1.251	1.471	15.0	85.0	278	233	153	250	194	164
19-Sep	0	0.248	1.320	1.568	15.8	84.2						
20-Sep	0	0.288	1.418	1.706	16.9	83.1						
21-Sep	0	0.234	1.219	1.453	16.1	83.9						
22-Sep	0	0.191	1.122	1.313	14.5	85.5						
23-Sep	0	0.193	1.137	1.330	14.5	85.5						
24-Sep	0	0.203	1.174	1.377	14.7	85.3						
25-Sep	0	0.192	1.126	1.318	14.6	85.4	205	200	403	150	178	1418
26-Sep	0	0.228	1.269	1.497	15.2	84.8						
27-Sep	0	0.256	1.525	1.781	14.4	85.6						
28-Sep	1.75	0.269	1.528	1.797	15.0	85.0						
29-Sep	0	0.199	1.142	1.341	14.8	85.2						
30-Sep	0	0.188	1.002	1.190	15.8	84.2						
SUM	8.4	7.636	42.235	49.871								
AVG		0.255	1.408	1.662	15	85	183	175	215	156	189	491
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

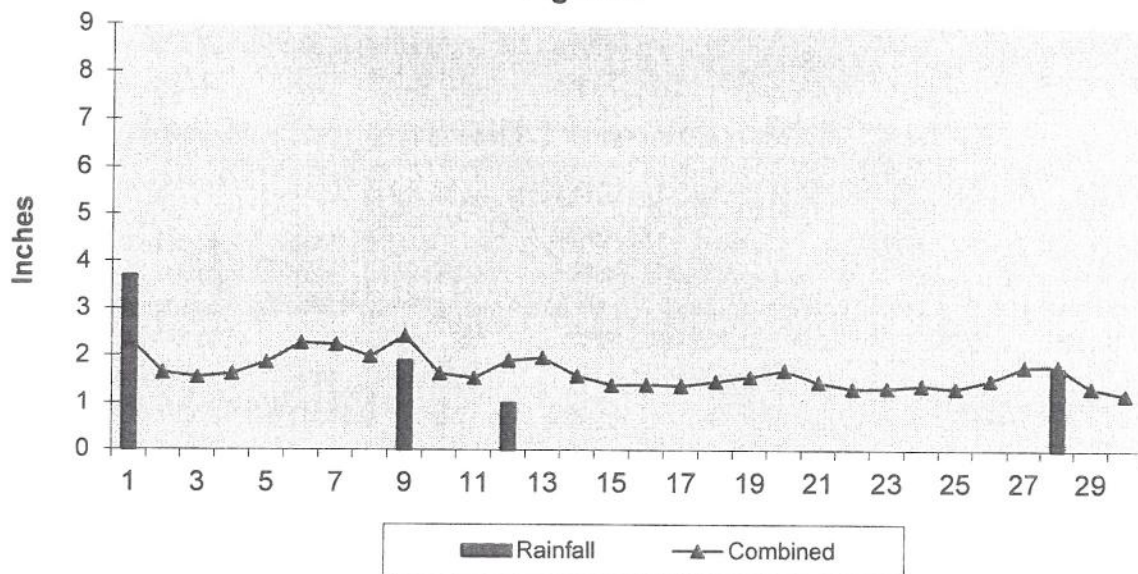
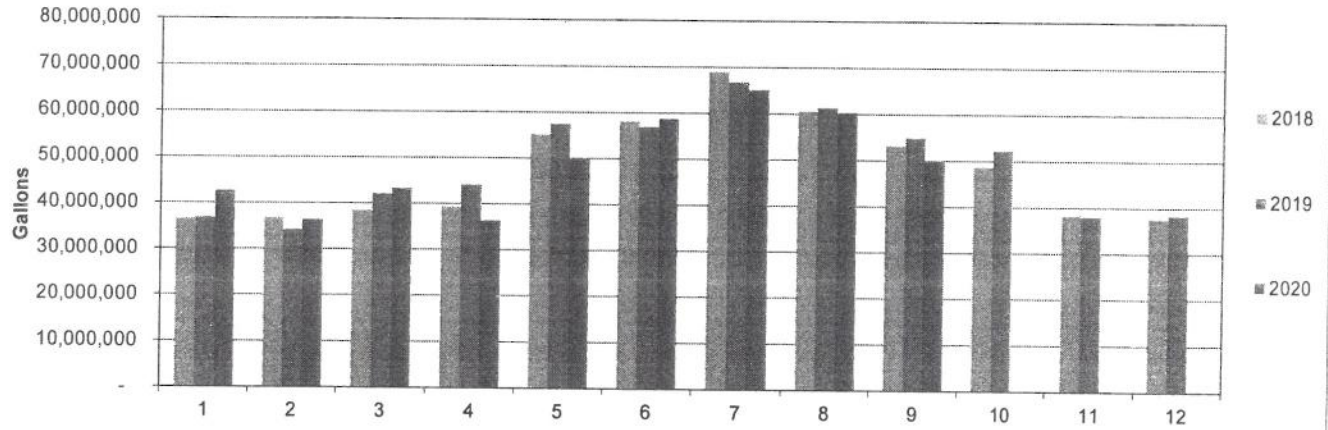


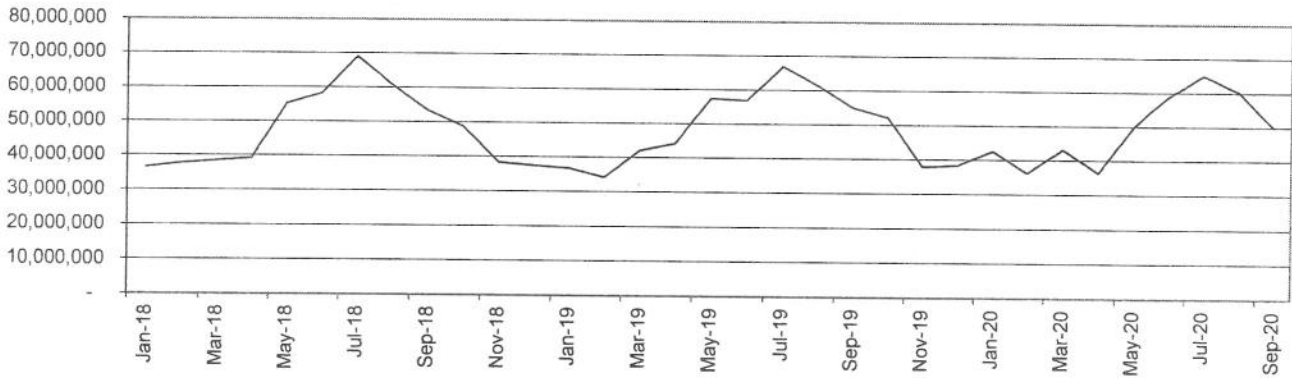
TABLE B
JOINT SEWER BOARD
Monthly Flows

2018	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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%
2019	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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%
2020	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
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						-	
November						-	
December						-	
	50.3	382,933,000	87%	59,336,000	13%	442,269,000	100%

Monthly Influent Flow
Figure 3A

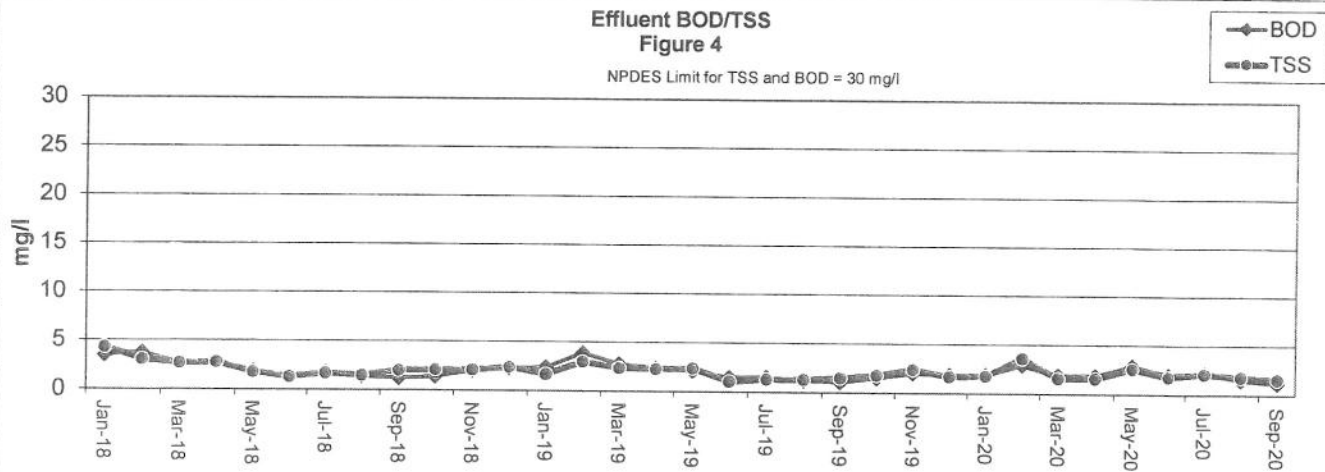


Monthly Influent Flow
Figure 3B

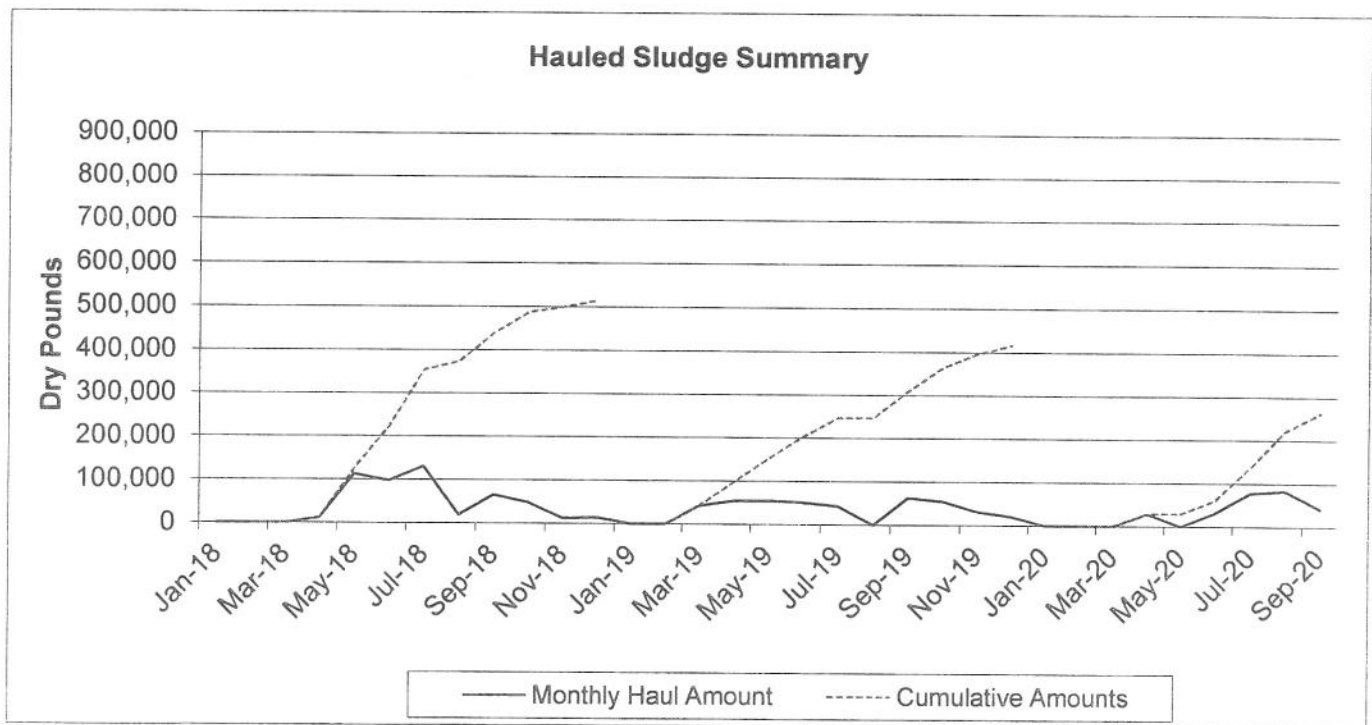
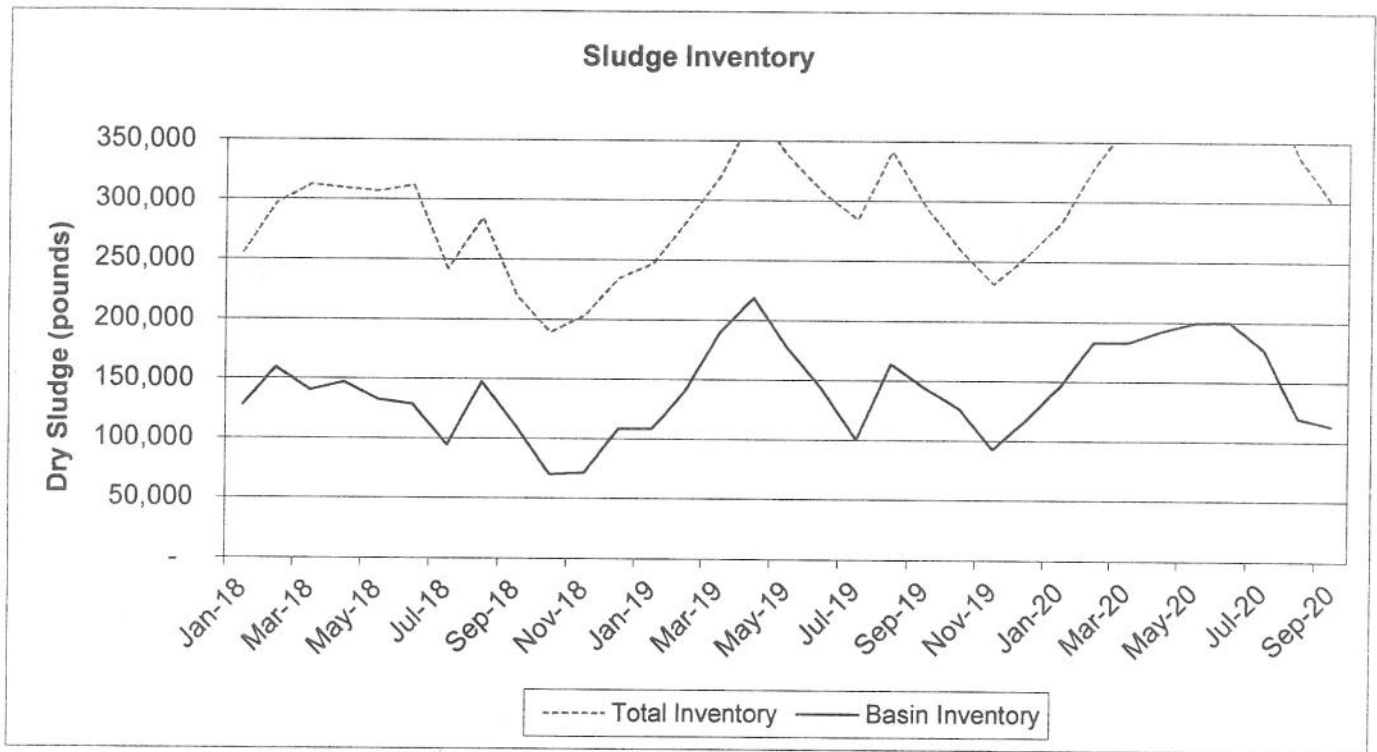


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

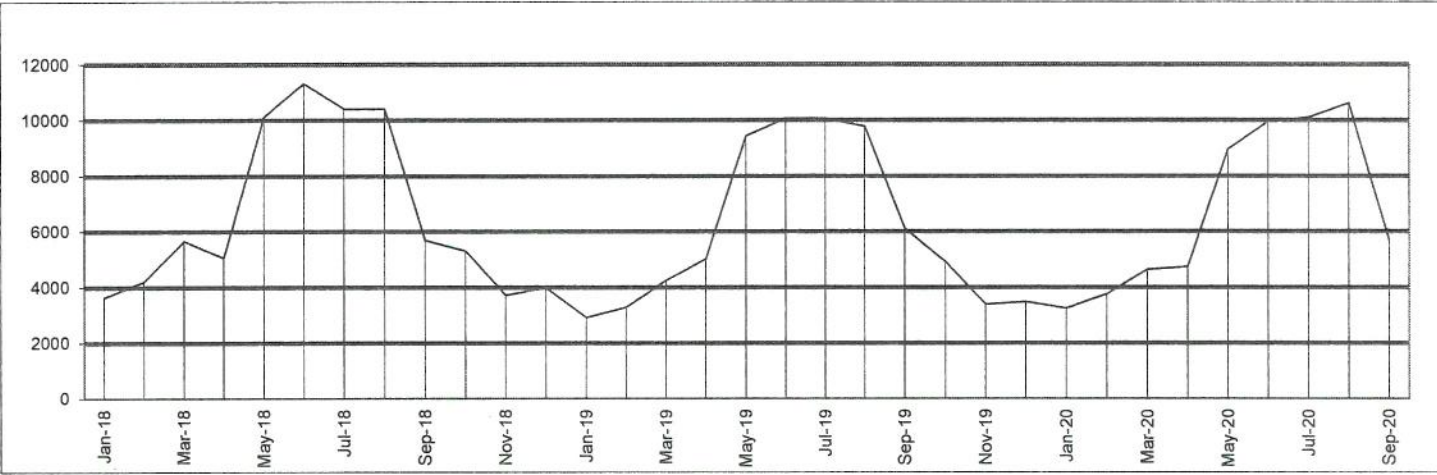


	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-18	0	-	0	3.4%	-	5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Jul-18	126	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026	42	107,000
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132	45	113,500
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409	21	59,500
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809	8	21,500
Dec-18	14	51,800	14,688	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494	22	55,000
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	3,626,643	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	218,676	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923	23	61,500
May-19	49	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	5,160	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	136,900	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	0.00595	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	214,600	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	4,460	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	132,916	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	230,968	15	36,000
Dec-19	17	62,900	20,643	3.9%	416,951	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	5,760	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	199,680	1.0	7.0	1.0	5,584	5,663	3,785,524	177,557	0.00562	377,216	35	83,000
Jun-20	25	92,500	31,660	4.1%	60,975	6.0	7.0	0.0	585,000	200,228	6.0	7.0	0.5	6,195	6,446	3,852,620	203,099	0.00632	403,327	6	18,000
Jul-20	69	255,300	77,268	3.6%	138,243	6.0	7.0	0.0	585,000	177,054	7.0	7.0	1.0	6,541	6,827	3,892,096	222,027	0.00684	399,081	88	208,000
Aug-20	76	281,200	83,286	3.6%	221,529	5.0	4.0	0.0	405,000	119,953	6.0	6.0	1.0	6,704	6,827	3,856,572	217,620	0.00677	337,574	39	107,000
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	6,039	6,109	3,657,238	185,265	0.00607	298,511	45	104,500

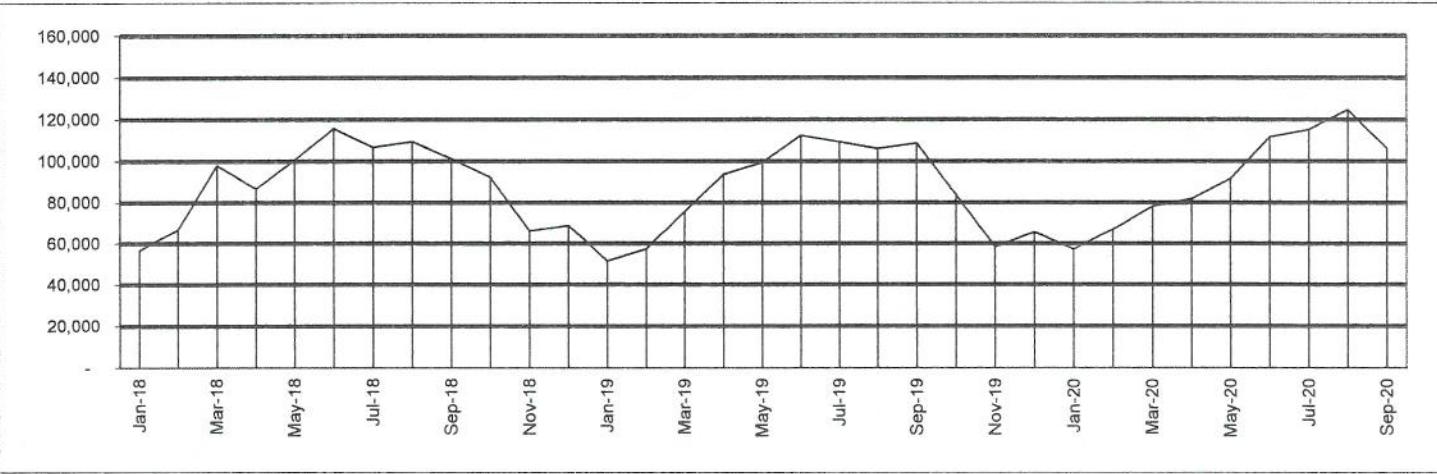


	<u>Electric Cost</u>	<u>Kilowatts Used</u>
Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
Jan-19	2926	51,490
Feb-19	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
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220

Electric Cost



Kilowatts Used





**MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY**

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

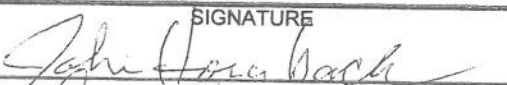
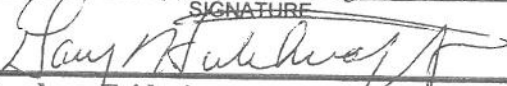
NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Sep-20		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	7.1			24.0	2.570	7.7				4.8		24.5		
2	7.2			24.2	1.909	7.8				4.8		24.6		
3	7.4			23.6	1.669	7.7			0.07	5.2		24.2		
4	7.3	158	212	23.0	1.738	7.7	1.3	1.6		5.7		23.8	99.2	99.2
5	7.3			22.9	1.941	7.7				5.4		23.4		
6	7.1			23.5	2.441	7.7				5.1		24.1		
7	7.0			24.2	2.354	7.8				5.0		24.5		
8	7.3			23.8	2.077	7.7				4.9	< 20	25.0		
9	7.1			23.2	2.694	7.8				4.9		24.1		
10	7.1			23.2	1.785	7.8			0.55	5.3		23.8		
11	7.3	145	170	23.8	1.673	7.6	1.3	1.5		5.4		24.4	99.1	99.1
12	7.1			23.2	2.133	7.6				4.8		22.0		
13	7.2			22.4	2.192	7.7				5.0		22.6		
14	7.3			22.0	1.747	7.8				5.5	< 20	21.5		
15	7.0			22.5	1.465	7.5				5.8		22.4		
16	7.0			22.1	1.578	7.4				5.4		22.4		
17	7.3			22.0	1.554	7.8			0.06	5.7		22.4		
18	7.1	153	164	22.7	1.673	7.6	1.1	1.3		5.8		22.3	99.3	99.2
19	7.1			21.3	1.777	7.5				5.4		20.8		
20	7.1			21.2	1.967	7.7				5.5		20.4		
21	7.1			20.9	1.778	7.6				6.0	< 20	20.5		
22	7.2			21.6	1.615	7.6				5.9		21.1		
23	7.3			21.5	1.617	7.8				5.7		21.5		
24	7.2			21.5	1.607	7.6			0.27	5.3		21.4		
25	7.1	403	1418	21.7	1.642	7.5	1.0	2.1		5.3		21.3	99.8	99.9
26	7.3			21.0	1.725	7.6				5.4		20.8		
27	7.3			20.9	2.020	7.5				5.7		21.4		
28	7.2			21.0	2.159	7.8				5.1	< 20	21.0		
29	7.3			20.1	1.662	7.8				5.6		20.2		
30	7.2			20.1	1.579	7.6				5.6		19.4		
Total					56.341									
Avg		215	491	22	1.878		1.2	1.6	0.24	5.4	< 20	22.4	99.3	99.4
Min	7.0	145	164	20	1.465	7.4	1.0	1.3	0.06	4.8	< 20	19.4	99.1	99.1
Max	7.4	403	1418	24	2.694	7.8	1.3	2.1	0.55	6.0	< 20	25.0	99.8	99.9

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										
14	< 4.9	< 1.0	276	304						
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	< 4.9	< 1.0	276	304						
Avg	< 4.9	< 1.0	276	304						
Min	< 4.9	< 1.0	276	304						
Max	< 4.9	< 1.0	276	304						

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				Outside * 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		0.9	6,310	900	24.4	1.0	6,900	910	24.4	70	3.7	7:30
2		2.6	5,750	900	24.5	1.3	6,930	950	24.4	73	0	7:30
3		2.5	6,560	930	23.8	2.0	6,890	920	23.9	70	0	7:30
4	1,234	1.1	6,880	950	23.4	1.4	6,340	940	23.5	62	0	7:30
5		1.6	6,550	950	23.1	1.6	6,060	930	23.2	64	0	7:30
6		1.2	6,390	930	24.0	1.2	5,920	900	24.0	72	0	7:30
7	8,393	1.0	6,340	920	24.4	1.3	5,860	910	24.4	73	0	7:30
8		0.8	6,440	950	24.3	0.9	5,980	940	25.2	71	0	7:30
9		0.9	6,030	930	23.6	0.8	6,460	930	23.8	65	1.9	7:30
10		2.4	5,600	930	22.7	1.5	6,470	920	23.4	67	0	7:30
11		1.2	6,780	930	24.3	0.9	7,080	940	24.2	73	0	7:30
12		1.0	5,270	900	23.4	0.8	5,960	940	23.6	67	1.0	7:30
13		0.8	5,330	900	23.0	1.0	5,030	870	22.9	63	0	7:30
14		1.1	6,250	950	22.0	1.8	5,700	910	22.1	59	0	7:30
15		3.4	6,190	940	21.7	3.3	6,140	940	22.0	60	0	7:30
16		1.2	6,500	950	21.9	1.8	6,710	910	22.1	62	0	7:30
17		1.8	6,420	950	22.0	1.3	6,130	930	22.2	63	0	7:30
18	4,320	1.3	6,010	940	22.0	1.5	5,880	900	22.1	57	0	7:30
19		3.1	5,220	870	20.7	2.4	5,200	860	21.0	51	0	7:30
20		1.3	5,490	900	20.4	1.3	5,840	930	20.7	50	0	7:30
21	7,406	1.5	5,990	930	20.2	1.9	6,350	950	20.5	53	0	7:30
22	8,208	2.0	5,740	910	20.8	1.8	6,280	940	21.0	59	0	7:30
23	6,665	2.4	5,620	900	21.3	1.7	6,360	930	21.3	64	0	7:30
24		1.4	5,970	900	20.6	1.5	6,270	920	21.0	56	0	7:30
25		1.3	6,760	910	20.9	1.6	5,660	850	21.2	57	0	7:30
26		2.3	5,980	900	20.9	2.3	5,510	900	21.1	61	0	7:30
27		2.7	5,290	810	21.1	1.7	6,100	910	21.2	61	0	7:30
28		1.1	6,000	900	20.5	1.0	5,620	860	20.7	55	1.75	7:30
29	5,400	2.9	5,520	900	19.2	3.9	6,430	930	19.4	50	0	7:30
30		1.9	6,000	900	19.2	2.4	6,200	900	19.5	52	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 10/8/2020
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 10/8/2020

*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					
-------------------	--	--	--	--	--

YEAR	MO	DAY	YEAR	MO	DAY
2020	09	01	2020	09	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)	REPORTD	*****	*****	*****	1.3	1.2	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****	*****	*****	99.1	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Escherichia coli (E. coli) (51040)	REPORTD	*****	*****	*****	<20	<20	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	7 Day Geometric Mean: 630	30 Day Geometric Mean: 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.694	1.878	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	0.55	*****	0.24	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Daily Maximum: 6.0	*****	Monthly Average: 1.1	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****	<4.9	*****	<4.9	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Daily Maximum: 15	*****	Monthly Average: 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	7.4	*****	7.8	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Minimum: 6.5	*****	Maximum: 9.0	Weekly	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.

Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	5733650455
Gary F Hutchcraft	Gary F Hutchcraft	2020-10-08 09:54:58	
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					
-------------------	--	--	--	--	--

YEAR	MO	DAY	YEAR	MO	DAY
2020	09	01	2020	09	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 (00981)	REPORTD	*****	*****	<1.0	*****	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	Daily Maximum: 9.1	*****	Monthly Average: 3.6	Monthly	Grab
Suspended Solids, percent removal (81011)	REPORTD	*****	*****	*****	*****	99.1	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum: 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	2.1	1.6	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Weekly Average: 45	Monthly Average: 30	Weekly	24 Hour Composite

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.

Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	5733650455
Gary F Hutchcraft	Gary F Hutchcraft	2020-10-08 09:54:58	
TYPED OR PRINTED NAME	SIGNATURE	Date	

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 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
-------------------	--	--	--	--	--

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2020	09	01		2020	09	30

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

Parameter	REPORTD	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO3) (00900)	REPORTD	*****		304	*****	Monthly	Grab	
Stage Type: Instream Monitoring	REPORTD	*****		Daily Maximum Monitoring Required	*****	Monthly	Grab	
				Monthly Average Monitoring Required				

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 any 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 IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		5733650455	
TYPED OR PRINTED NAME		SIGNATURE	
Gary F Hutchcraft		2020-10-08 09:54:58	
		Date	

Page 3

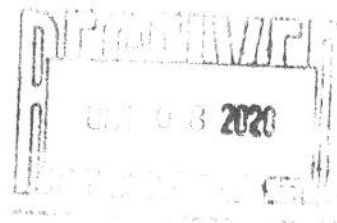
FOR SEPTEMBER 2020
month year

Use following abbreviations R-rain, S-snow, O-overcast, C-clear, PC-partly cloudy

Date 10/8/2020

CWA - Non-Potable Water
FINAL Performance Evaluation Report
NSI Laboratory Proficiency Testing Program
Study DMRQA-40 - Shipped: 03/20/2020 - Closed: 09/18/2020 - Reports Printed On: 09/23/2020
Participant USEPA Labcode: MO01096

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ANAB Certificate#: AP-1693-1
1-800-234-7837



This evaluation report is being submitted to:

Lake of the Ozarks Regional WWTP #1
Attention: Gary Hutchcraft
PO Box 1985
Lake Ozark, MO, 65049

LabCode and Accreditation Information:

Send Results to: State and EPA
EPA Lab Code: MO01096
State Lab Code: Missouri
Primary Agency: EPA Region VII -- EPA Region VII(WWPD/WENF)Bryant C. Harris, U.S. EPA Region VII
Add'l Agencies below
11201 Renner Blvd
Lenexa, KS 66219
Reports to: MO
EPA Region VII

Participant Information

NSI Lab Code: N05248
Permittee Code: MO0103241

This report was submitted by Gary Hutchcraft, Local Manager II
Lake of the Ozarks Regional WWTP #1
PO Box 1985
Lake Ozark, MO, 65049
573-365-0455

Please contact Mark Hammersla at NSI Lab Solutions if you have any questions about this report.
(800) 234-7837 - mark.hammersla@nsilabsolutions.com

This PT report may contain data not covered under ANAB Accreditation. Such data is noted by an asterisk.

MIC-003 Total and Fecal Coliform - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-40

NELAC Analyte	NELAC	Method	Reported	Study	Assigned		EPA	Acceptance		Analysis	Analyst's
Analyte	Method Code	Description	Value	Mean	Value	Units	Code ¹	Limits	Evaluation	Date	Name
2530 Fecal Coliform, MF	n/a	SM 21st ED 9222B-J	925	761	761	cfu/100mL	MO01096	160 to 2970	ACCEPT.	9/8/20	John Hornback
2500 Total Coliform, MF	-- Not Reported --										
2500 Total Coliform, MPN	-- Not Reported --										
2530 Fecal Coliform, MPN	-- Not Reported --										
2525 E.coli, MF	-- Not Reported --										
2525 E.coli, MPN	-- Not Reported --										

PEI-026 Demand - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-40

NELAC Analyte	NELAC	Method	Reported	Study	Assigned	Standard	EPA	Acceptance		Analysis	Analyst's
Analyte	Method Code	Description	Value	Mean	Value	Deviation	Code ¹	Limits	Evaluation	Date	Name
1530 BOD	n/a	SM 21st ED 5210 B	41.5	53.1	52.6	mg/L	MO01096	27.4 to 77.7	ACCEPT.	9/4/20	John Hornback
1565 COD	-- Not Reported --										
2040 TOC	-- Not Reported --										
1555 CBOD	-- Not Reported --										

PEI-035 pH - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-40

NELAC Analyte	NELAC	Method	Reported	Study	Assigned	Standard	EPA	Acceptance		Analysis	Analyst's
Analyte	Method Code	Description	Value	Mean	Value	Deviation	Code ¹	Limits	Evaluation	Date	Name
1900 pH	n/a	SM 21st ED 4500 H+B	8.13	8.07	8.14	units	MO01096	7.94 to 8.34	ACCEPT.	9/2/20	John Hornback

PEI-079 Residue - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-40

NELAC Analyte	NELAC	Method	Reported	Study	Assigned	Standard	EPA	Acceptance		Analysis	Analyst's
Analyte	Method Code	Description	Value	Mean	Value	Deviation	Code ¹	Limits	Evaluation	Date	Name
1960 Non-Filterable Residue (TSS)	n/a	SM 21st ED 2540 D	59.5	61.9	66.5	mg/L	MO01096	53.3 to 74.8	ACCEPT.	9/2/20	John Hornback
1950 Total Solids	-- Not Reported --										

PEI-138 Simple Nutrients - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-40

NELAC Analyte	NELAC	Method	Reported	Study	Assigned	Standard	EPA	Acceptance		Analysis	Analyst's
Analyte	Method Code	Description	Value	Mean	Value	Deviation	Code ¹	Limits	Evaluation	Date	Name
1515 Ammonia as N	n/a	SM 21st ED 4500 NH3 D	2.17	2.75	2.61	mg/L	MO01096	1.92 to 3.38	ACCEPT.	9/3/20	John Hornback
1810 Nitrate as N	-- Not Reported --										
1870 Orthophosphate as P	-- Not Reported --										
1820 Nitrate-nitrite as N	-- Not Reported --										

Assigned Values

All assigned values are established in a manner compliant with the current NELAC FOT for Non-Potable Water. With the exception of TDS and Specific Conductance assigned values are equal to the analytically verified gravimetric true value of the PT sample. For TDS and Specific Conductance, the assigned value is set at the robust study mean.

Accuracy/Traceability/Uncertainty

All assigned values are analytically verified for formulation accuracy prior to shipment. A total of 10 randomly chosen samples are taken from the production run and analyzed against NIST SRMs or CRMs. Traceability to SI is established through microbalance calibration with NIST traceable test masses. The expanded uncertainty at 95% CI with K=2 of each assigned value is available upon request and is typically <0.50%.

Batch Homogeneity

Each individual PT sample batch is thoroughly mixed in production and guaranteed to be homogeneous. Homogeneity is verified analytically according to in-house SOP.

Stability

Each analyte has been verified stable through the end of the PT study by either long term monitoring or study closing stability testing.

Acceptance Limits

Acceptance limits are set according to current NELAC limits. Where no limits are set by NELAC, limits are set to ± 3 standard deviations around the study mean after outlier correction.

Accredited Analytes

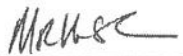
All analytes are included under our ISO 17043/TNI scope of accreditation (Certificate #: AP-1693-1) unless otherwise noted with an asterisk (*).

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT Datalink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.
† If present, the EPA Code of the lab that actually performed the analysis for this analyte.

Reviewed/Approved By:


Mark Hammersla, President

Date: 09/23/2020

Add'l Agencies: MO -- Missouri DNR/WPC Program
Department Central Offices
P.O. Box 176
Jefferson City, MO 65102-0176

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LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Operating Budget

Cash & Equivalent Balance January 1, 2021 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

271,592

TOTAL Cash & Equivalent Balance January 1, 2021

\$ 271,592

Revenue

Osage Beach

473,000

Lake Ozark

77,000

Misc.

-

Interest

2,000

Waste Haulers' Fee

35,000

TOTAL Revenues

\$ 587,000

Expenditures

Transfer to Replacement Fund

71,606

Equipment & Building Repair/main.

147,500

Insurance

19,200

Vehicle Maintenance

8,000

Contract Management

314,752

Electric

75,000

Utilities Misc.

3,000

Bank Charges

-

Audit

2,600

Professional Services

-

Equipment Purchase - New

500

TOTAL Expenditures

\$ 642,158

Cash & Equivalent Balance December 31, 2021 - Estimated

Restricted - Fund Reserves

Unrestricted

216,434

TOTAL Cash & Equivalent Balance December 31, 2021

\$ 216,434

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Operating Budget

REVENUE	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2020 Projected Year-End	FY2021 Budget
<u>Operating Revenue</u>						
3020 Osage Beach - 86%	478,614	480,785	475,092	473,000	473,000	473,000
3010 Lake Ozark - 14%	71,386	69,215	74,908	77,000	77,000	77,000
3030 Misc.	-	1,485	-	-	-	-
3100 Interest	782	1,709	4,287	1,400	3,000	2,000
3030 Waste Haulers' Fee	30,500	25,780	26,260	29,000	35,000	35,000
Total Franchise Fees	\$ 581,282	\$ 578,974	\$ 580,547	\$ 580,400	\$ 588,000	\$ 587,000
Total General Fund Revenues	\$ 581,282	\$ 578,974	\$ 580,547	\$ 580,400	\$ 588,000	\$ 587,000

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Operating Budget

Expenditures	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2020 Projected Year-End	FY2021 Budget
<u>Operations and Maintenance</u>						
4000 Transfer to Equip. Replace. Fund	41,604	41,604	41,604	71,606	71,606	71,606
4020 Equip & Bldg. Repair/Main.	129,789	9,714	104,063	88,000	88,000	147,500
4140 Insurance	17,144	18,475	18,761	19,200	19,100	19,200
4150 Vehicle Repair/Main.	12,048	3,887	5,480	10,000	10,000	8,000
4160 Haulers fees to contractor	8,000	8,000	-	-	-	-
4170 Contract Management	311,230	319,011	299,592	308,580	308,580	314,752
4175 Electric Service	69,262	79,533	73,277	75,000	74,000	75,000
4176 Utilities Misc.	-	-	3,717	3,100	3,100	3,000
4190 Bank Charges	24	24	176	75	75	-
4200 Audit	2,200	2,300	2,400	2,500	2,500	2,600
4220 Professional Services	1,200	-	-	-	-	-
4240 Equipment - New Generator	-	-	145,247	-	-	500
Total Operations and Maintenance	\$ 592,501	\$ 482,549	\$ 694,317	\$ 578,061	\$ 576,961	\$ 642,158

DETAIL: Equip & Bldg. Repair/Main.

Auto Dialer Yrly Software Fee	500	Tier 1
Regular Maintenance	15,000	Tier 1
UV Spare Parts	10,000	Tier 1
Rebuild/repair 3 RAS pumps	10,000	Tier 1
Repair Ducking skimmer arm/elec pan	5,000	Tier 1
Repair Ducking skimmer arm/supports	5,000	Tier 1
Rock for road	2,000	
#2 Basin remove grit & repairs	100,000	Tier 2
	147,500	

CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2021

TIER 1

		4000/ER	
1. Replacement Pista Grit Cart w/machine work included	(estimated)	\$3,000	New
2. Replace wooden doors w/ fiberglass doors, a couple per year	(estimated)	\$2,000	Carryover
3. Replace existing lawn mower	(estimated)	\$6,000	New - Carryover
	Subtotal	\$11,000	
		4020	Notes
4. Annual fee for Mission autodialer (software fee)	(estimated)	\$500	Annual Fee
5. Regular Plant Maintenance, diesel for generator included	(estimated)	\$15,000	Annual Maint.
6. UV Bulbs, Quartz Sleeves and Spare Parts	(estimated)	\$10,000	Annual Maint.
7. Rebuild 3 RAS pumps	(estimated)	\$10,000	New
8. Ducking skimmer arm mechanisim electrical panel repair	(estimated)	\$5,000	New
9. Rebuild ducking skimmer arm & arm supports on clarifier #2	(estimated)	\$5,000	Carryover
10. Rock for the road.	(estimated)	\$2,000	Carryover
	Subtotal	\$47,500	
		4150	
11. Vehicle Maintenance which includes maintenace agreement for generator	(estimated)	\$8,000	Annual Maint.
	Subtotal	\$8,000	
		4240	
12. Stick arc welder	(estimated)	\$500	New
	Subtotal	\$500	
	Total	\$67,000	

TIER 2

1. Take #2 Aeration Basin down, removal of grit by Contractor, repair or replace valves and all required lab testing on grit	(estimated)	\$100,000	New - Carryover
Estimated Tier 2 Total		\$100,000	

Informational TIER 3

1. New 6 wheel drive sludge truck w/ flotation type tires w/ 3000 gallon tank	(estimated)	\$200,000	New - Carryover
Estimated Tier 3 Total		\$200,000	

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Equipment Replacement Budget

Cash & Equivalent Balance January 1, 2020 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

531,727

TOTAL Cash & Equivalent Balance January 1, 2021

\$ 531,727

Revenue

Interest

6,000

Transfer From Other Funds

71,606

TOTAL Revenues

\$ 77,606

Expenditures

Replacement

11,000

TOTAL Expenditures

\$ 11,000

Cash & Equivalent Balance December 31, 2021 - Estimated

Restricted - Fund Reserves

598,333

Restricted - Other

Unrestricted

-

TOTAL Cash & Equivalent Balance December 31, 2021

\$ 598,333

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Equipment Replacement Budget

	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2020 Projected Year-End	FY2021 Budget
REVENUE						
Replacement Revenue						
3000 Transfer from Operating	41,604	41,604	41,604	71,606	71,606	71,606
3100 Interest Earned	2,319	5,348	9,002	4,000	8,000	6,000
Total Revenue	\$ 43,923	\$ 46,952	\$ 50,606	\$ 75,606	\$ 79,606	\$ 77,606

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2021 Equipment Replacement Budget

EXPENDITURES	FY2017 Actual	FY2018 Actual	FY2019 Actual	FY2020 Budget	FY2020 Projected Year-End	FY2021 Budget
<u>Replacement Expenditures</u>						
4000 Replacement Expenses	\$7,555	\$42,783	\$41,281	\$83,500	85,000	11,000
	\$7,555	\$42,783	\$41,281	\$83,500	\$85,000	\$11,000

DETAIL: Equipment & Replacement

Replace Pista Grit Cart w/machine work	3,000	Tier 1
Replace wooden doors w/fiberglass	2,000	Tier 1
Replaace lawn mower	6,000	Tier 2
	11,000	

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Bids for Replacement Lift Station Pump

Bidder	Budgeted Amount	Total Bid	Equipment
Evans Enterprises	\$8,000.00	\$11,285.00	Barnes 142775-MBM 15HP
Independent Electric	"	\$8,671.42 plus freight	Tsurumi 100B47.5 10HP
Municipal Equipment	"	\$6,784.80 plus freight	Sulzer/ABS XFP15E CB1.5 PE 75/4 10HP
JCI Industries	"	\$6,550.00	Keene K4VP100M4 10HP