

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JULY 20, 2021 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Dennis Newberry
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Osage Beach, Phyllis Marose
Alderman, Lake Ozark,
Public Works Director, Lake Ozark, Matt Michalik
Public Works Operations Manager, Osage Beach, Kevin Crooks
Member at Large, Mr. Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting: June 15, 2021

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4. REPORTS

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May Alliance Report of Operations	15-32
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Approval of Flow Charts June 2021

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Discussion and action regarding the Alliance Water Resource Contract

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 17, 2021 4:00 PM @ LAKE OZARK CITY HALL

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

Meeting Minutes – June 15, 2021

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, June 15, 2021, at Lake Ozark City Hall.

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Dennis Newberry - Present
City Administrator Osage Beach, Jeana Woods – Absent
City Administrator Lake Ozark, Dave Van Dee – Absent
Alderman Osage Beach, Phyllis Marose- Present
Public Works Director Lake Ozark, Matt Michalik – Present
Public Works Operations Manager Kevin Crooks – Present
Resident Member, Mr. Gary Hamner – Present

MINUTES:

Public Works Director Michalik motioned to approve the meeting minutes of May 18, 2021. His motion was seconded by Alderman Marose 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 Mayor Newberry to approve the documents and pay the bills. His motion was seconded by Operations Manager Crooks and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for May was 1.466 mgd. We had 5.2 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.3 mg/l and TSS of 1.8 mg/l respectively for May which represents a 98.9% or better removal.

The MLSS average for both aeration basins was 6,701 mg/l. The total dry weight sludge inventory for May totaled 400,825 pounds. There were 45 tanker loads of biosolids or 128,500 gallons land applied for May.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Michalik to approve the Flow Chart for May. His motion was seconded by Mayor Newberry. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Board Representative Update: An update was given on the new sludge truck

NEW BUSINESS:

- A. Review of the 2020 Joint Sewer Board Audit. Ms. Karri Bell gave an overview of the annual audit, noting that it was very positive.
- B. Discussion regarding the Alliance Water Resource Contract. Discussion was held regarding the possible extension of the Contract. This matter will be placed on the July Agenda as an action item.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:40 pm.

Mayor, John Olivarri

City Collector

JOINT SEWER BOARD
BILL LIST
JULY 20, 2021

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
OPERATING FUND BILLS TO BE PAID:	\$	48,698.17
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$	-

TOTAL	\$	48,698.17
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OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

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

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	429	Equipment Replacement Fund	Payment into ER Fund	\$ 10,134.00
4020	430	CED	4074 Breaker Pista Grit Sys	\$ 35.54
4020	431	GLW	2521 End for packing ex.	\$ 72.90
4020	432	Grainger	6560 Packing Tool	\$ 62.15
4020	433	Jani King	10069 July	\$ 196.17
4020	434	M/C EnviroZyme	1035954 Amonia Nitrifying Bacteria	\$ 688.20
4020	435	Menards	14878 Weed Killer	\$ 57.93
4020	436	O'Reilly	377451 Grease & Gun	\$ 77.89
4020	437	USA Blue Book	639686 Bacteria Enzymes for ditches	\$ 253.00
4020	437	USA Blue Book	648205 Bacteria Enzymes for ditches	\$ 253.14
4170	438	Alliance Water Resources, Inc.	June	\$ 25,720.00
4175	439	Ameren MO	11673321	\$ 10,548.36
4175	439	Ameren MO	98041275	\$ 61.93
4176	440	Ferrellgas	78078 Propane - 253 gallons	\$ 379.70
4176	441	Republic	July	\$ 52.05
4176	442	AT&T	July	\$ 105.21
				\$ -

TOTAL	\$	48,698.17
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EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000				\$ -
				\$ -
				\$ -
			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 \$10,548.36

Due Date 07/30/2021

Current Date of Statement 07/09/2021

Total Electric Charges \$10,548.36

Amount After Due Date \$10,708.59

Total Amount Due \$10,548.36

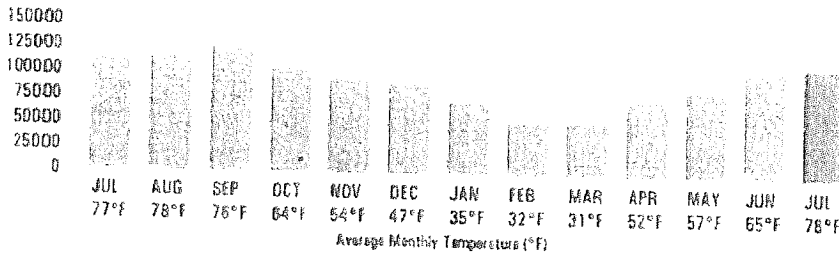
Previous Statement \$7,681.42

Total Payments \$7,681.42

Payment Received, Thank You

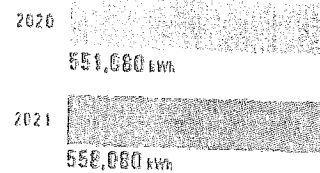
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

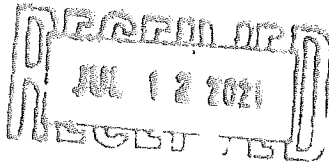
So far this year, you're using 1.2% more than last year.



Usage from Jan-Jul for 2020 & 2021

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GL Acct#: 4175
 Signature: [Signature]
 Date: 7/12/21

See next page for service details.

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Page 1 of 4



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Amount Due	Due Date
\$10,548.36	July 30, 2021
Delinquent Amount After Due Date	Account Number
\$10,708.59	4580005832

Amount Enclosed \$

>001735 6574747 0011 092139 10Z

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

00600000 0045800058302 000010548360 000010548360



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Electric Meter Read

Service from 05/01/21 to 07/01/22 (90 days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	06/07 - 07/07	30	Total kWh	Actual	67190.0000	66510.0000	680.0000	180.0000	109760.0000
11673321	06/07 - 07/07	30	Peak kW	Actual	1.4760	0.0000	1.4760	180.0000	236.1600

Usage Summary

Total kWh	109760.0000	Summer kWh	109760.0000
Peak kW	236.2000	Billing Demand	236.2000
Total Billing Demand	236.2000	October Winter Base kW	176.2000
Winter Base Demand	176.2000	Base kWh Ratio	0.7459
Base kWh (HUD)	0.0000	Seasonal kWh (HUD)	0.0000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	0.00	kWh	\$ 0.03560000	\$0.00
Summer Demand Charge	236.20	kW	\$ 5.40000000	\$1,275.48
Winter Demand Charge	236.20	kW	\$ 0.00000000	\$0.00
Energy Charge/Hours Used	35,430.00	kWh	\$ 0.09880000	\$3,433.17
Energy Charge/Hours Used	47,240.00	kWh	\$ 0.07290000	\$3,443.80
Energy Charge/Hours Used	27,090.00	kWh	\$ 0.04910000	\$1,330.12
Base Energy Charge / Hours Used	0.00	kWh	\$ 0.06090000	\$0.00
Customer Charge				\$95.29
Fuel Adjustment Charge	109,760.00	kWh	\$ 0.00308000	\$338.06
Energy Efficiency Investment Charge	109,760.00	kWh	\$ 0.00559200	\$613.78
Renewable Energy Adjustment	109,760.00	kWh	\$ 0.00017000	\$18.66
Total Service Amount				\$10,548.36
Total Electric Charges				\$10,548.36

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

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

AMOUNT DUE \$61.93

Due Date 07/30/2021

Total Electric Charges \$61.93

Amount After Due Date \$62.86

Total Amount Due \$61.93

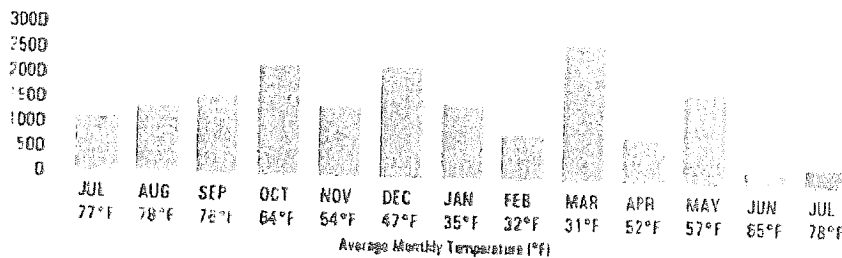
Previous Statement \$45.34

Total Payments \$45.34

Payment Received, Thank You.

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 40.1% more than last year.

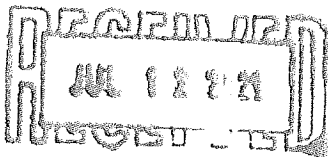
2020 8,140 kWh

2021 8,600 kWh

Usage from Jan-Jul for 2020 & 2021

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Account: 4175
 Signature: [Handwritten Signature]
 Date: 7/12/21

See next page for service details.

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Page 1 of 4



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Amount Due	Due Date
\$61.93	July 30, 2021
Delinquent Amount After Due Date	Account Number
\$62.86	5580005820

Amount Enclosed \$

>001415 6574747 0011 092135 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

90633000 0055800059200 000000061930 000000061930



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Service Details

Service from 05/07/2021 - 07/07/2021 (30 Days)

Electric Meter Read

METER NUMBER	SERVICE FROM TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041276	06/07 - 07/07	30	Total kWh	Actual	21993.0000	21926.0000	37.0000	10.0000	370.0000
86041276	06/07 - 07/07	30	Peak kW	Actual	4.4350	0.0000	4.4350	10.0000	44.3500

Usage Summary

Total kWh	370.0000	Summer kWh	370.0000
Winter Base kWh	1600.0000	Current Base kWh	370.0000
Summer Cur Base kWh	370.0000	Seasonal kWh	0.0000

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

Threshold Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Summer Total Energy Charge	370.00	kWh	\$ 0.10430000	\$38.59
Base Energy Charge	0.00	kWh	\$ 0.07790000	\$0.00
Seasonal Energy Charge	0.00	kWh	\$ 0.04490000	\$0.00
Customer Charge				\$19.99
Fuel Adjustment Charge	370.00	kWh	\$ 0.00308000	\$1.14
Energy Efficiency Investment Charge	370.00	kWh	\$ 0.00581100	\$2.15
Renewable Energy Adjustment	370.00	kWh	\$ 0.00017000	\$0.06
Total Service Amount				\$61.83
Total Electric Charges				\$61.83

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
June 18, 2021	\$45.34

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

Account Number	Account Name	6/30/2021					Percent YTD
		2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 6/30/2021	2021 June Revenue	
3020	Osage Beach	475,091.53	475,836.10	473,000.00	232,337.24	38,453.31	49%
3010	Lake Ozark	74,908.46	74,163.90	77,000.00	42,662.76	14,902.67	55%
3030	Misc.	0.00	4,500.00	0.00	781.00	0.00	0%
3100	Interest	4,286.79	4,019.49	2,000.00	1,833.52	183.23	92%
3060	Waste Haulers' Fee	26,260.00	39,320.00	36,000.00	27,180.00	6,060.00	76%
Total Operating Fund		580,546.78	597,839.49	588,000.00	304,794.52	59,599.21	52%
E/R Fund Income		9,001.77	8,955.85	6,000.00	3,232.66	87.11	54%
TOTAL INCOME		589,548.55	606,795.34	594,000.00	308,027.18	59,686.32	52%

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2021

Account Number	Account Name	2019 Actual	2020 Actual	2021 Budget	2021 Actual as of 6/30/2021	2021 June Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.00	71,604.00	121,606.00	60,804.00	10,134.00	50%
4020	*Maintenance & Repair	104,062.97	28,299.39	36,800.00	73,414.50	528.14	199%
4140	Insurance	18,761.00	19,865.00	19,200.00	19,860.00	0.00	103%
4150	Vehicle Repair/Main	5,479.60	12,479.74	8,000.00	1,317.75	0.00	16%
4170	Contract Management	299,592.00	305,580.00	314,752.00	154,320.00	25,720.00	49%
4175	Electric	73,276.87	75,077.36	75,000.00	29,014.40	7,726.76	39%
4176	Utilities Misc.	3,717.52	2,485.59	3,500.00	2,153.44	156.89	62%
4190	Bank Charges	176.00	32.60	0.00	0.00	0.00	0%
4200	Audit	2,400.00	2,648.50	2,600.00	2,600.00	2,600.00	100%
4240	Capital Purchases	145,247.00	0.00	500.00	0.00	0.00	0%
	Totals	694,316.96	516,072.18	581,958.00	343,484.09	46,865.89	59%
	**E/R Expenses	41,280.51	85,258.27	221,000.00	18,509.24	0.00	8%
	TOTAL EXPENSES	735,597.47	601,330.45	802,958.00	361,993.33	46,865.89	45%

2020 CARRY

*Maintenance & Repair

Accounting - QuickBooks	300.00
Auto Dialer Yrly Software Fee	500.00
Regular Maintenance	15,000.00
UV Spare Parts	10,000.00
Ducking skimmer arm Elec repair	5,000.00
Rock for Road	2,000.00
Chain-link fence repair	4,000.00
Sandblast & paint clarifier #2	
	<u>38,800.00</u>

**Equipment & Replacement

Replace Pista Grit Cart w/machine work	3,000.00
Replace wooden doors w/fiberglass	2,000.00
Rebuild 3 RAS pumps	10,000.00
Replace lawn mower	6,000.00 X
Sludge Truck	200,000.00
FINAL - Parking Lot Lights	-
	-
	-
	<u>221,000.00</u>

OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2021

Beginning Balance	290,796.86
Income - Osage Beach	38,453.31
Income - Lake Ozark	14,902.67
Income - Other	-
Income - Waste Haulers' Fees	6,060.00
Interest - Checking	0.00
Income - CD Interest	181.86
Transfers From E/R Fund	-
Transfers to E/R Fund	(10,134.00)
Expenses	(36,731.89)
Ending Fund Balance	303,528.81
Central Bank - NOW Acct.	84,109.46
CD First Bank of the Lake, 11/20/21 #101318432	106,727.34
CD First Bank of the Lake, 7/22/22 #101318433	112,692.01
Outstanding Checks:	-
	303,528.81

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2021

Beginning Balance	567,729.03
Interest - Checking	87.11
Income - CD Interest	-
Transfers to E/R Fund	10,134.00
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	577,950.14
First Bank of the Lake - Money Mkt.	198,926.24
CD First Bank of the Lake, 7/30/21 #101318430	109,023.90
CD First Bank of the Lake, 11/07/21 #101318434	270,000.00
Outstanding Checks:	-
	577,950.14

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**Alliance Water
Resources,
Inc.**

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

(573)874-8080



REPORT OF OPERATIONS

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

Month of June 2021

Submitted by Alliance Water Resources, Inc. for the

July 2021

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

The Lake Ozark/Osage Beach Joint WWTP produced superior effluent quality throughout the month and was in full compliance with effluent limitations established in NPDES Permit No.MO-0103241. No leaks, no spills, and no unauthorized releases to waters of the state. No work related lost time accidents have occurred during the month.

Detailed information relating to plant performance and operations is presented as follows.

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.8	2.0	N/A	8.4		0.12	< 4.9	< 1.0
Peak Day	2.1	2.4	7.9	49.8		0.15	< 4.9	< 1.0
Percent Removal	99.3	99.5	N/A	N/A		N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		1.1	10	3.6
Weekly Average	45	45		630				
Daily Max				N/A		6.0	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.636 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 108278 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

74,152 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 675,000 gallons with a level of 7.0 feet in Tank 1 and 8.0 feet in Tank 2.

WASTEHAULERS

The plant received 47 loads of septage during the month totaling 111,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We started adding bacteria/enzymes to the ditches on the 19th of June. We have had to start shutting off aerators due to the high flows.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)

SAFETY

- We conducted our monthly Safety Meeting on Work Zone and Flagger on the 1st of June.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 13th of July.
- We set up samplers on the 23rd and shipped our Annual Acute WET test on the 24th of June.

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 2021

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Jun	0	0.266	1.382	1.648	16.1	83.9						
2-Jun	0	0.211	1.048	1.259	16.8	83.2						
3-Jun	0	0.200	1.031	1.231	16.2	83.8						
4-Jun	0	0.205	1.107	1.312	15.6	84.4	323	250	248	232	170	312
5-Jun	0	0.270	1.273	1.543	17.5	82.5						
6-Jun	0	0.298	1.416	1.714	17.4	82.6						
7-Jun	0.2	0.243	1.273	1.516	16.0	84.0						
8-Jun	0	0.179	1.199	1.378	13.0	87.0						
9-Jun	0	0.177	1.164	1.341	13.2	86.8						
10-Jun	0	0.194	1.216	1.410	13.8	86.2						
11-Jun	0	0.184	1.198	1.382	13.3	86.7	285	260	340	220	288	848
12-Jun	0.3	0.234	1.416	1.650	14.2	85.8						
13-Jun	0	0.257	1.578	1.835	14.0	86.0						
14-Jun	0	0.224	1.303	1.527	14.7	85.3						
15-Jun	0	0.202	1.203	1.405	14.4	85.6						
16-Jun	0	0.180	1.043	1.223	14.7	85.3						
17-Jun	0	0.193	1.150	1.343	14.4	85.6						
18-Jun	0	0.217	1.266	1.483	14.6	85.4	248	208	250	162	168	286
19-Jun	0	0.262	1.501	1.763	14.9	85.1						
20-Jun	0	0.268	1.538	1.806	14.8	85.2						
21-Jun	0	0.232	1.361	1.593	14.6	85.4						
22-Jun	0	0.219	1.185	1.404	15.6	84.4						
23-Jun	0	0.206	1.211	1.417	14.5	85.5						
24-Jun	0	0.209	1.203	1.412	14.8	85.2						
25-Jun	1.3	0.246	1.251	1.497	16.4	83.6	405	193	220	364	188	260
26-Jun	1.4	0.355	1.967	2.322	15.3	84.7						
27-Jun	1.8	0.363	2.221	2.584	14.0	86.0						
28-Jun	1.2	0.388	2.343	2.731	14.2	85.8						
29-Jun	1.8	0.421	2.380	2.801	15.0	85.0						
30-Jun	0	0.287	1.268	1.555	18.5	81.5						
SUM	8.0	7.390	41.695	49.085								
AVG		0.246	1.390	1.636	15	85	315	228	265	245	204	427
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

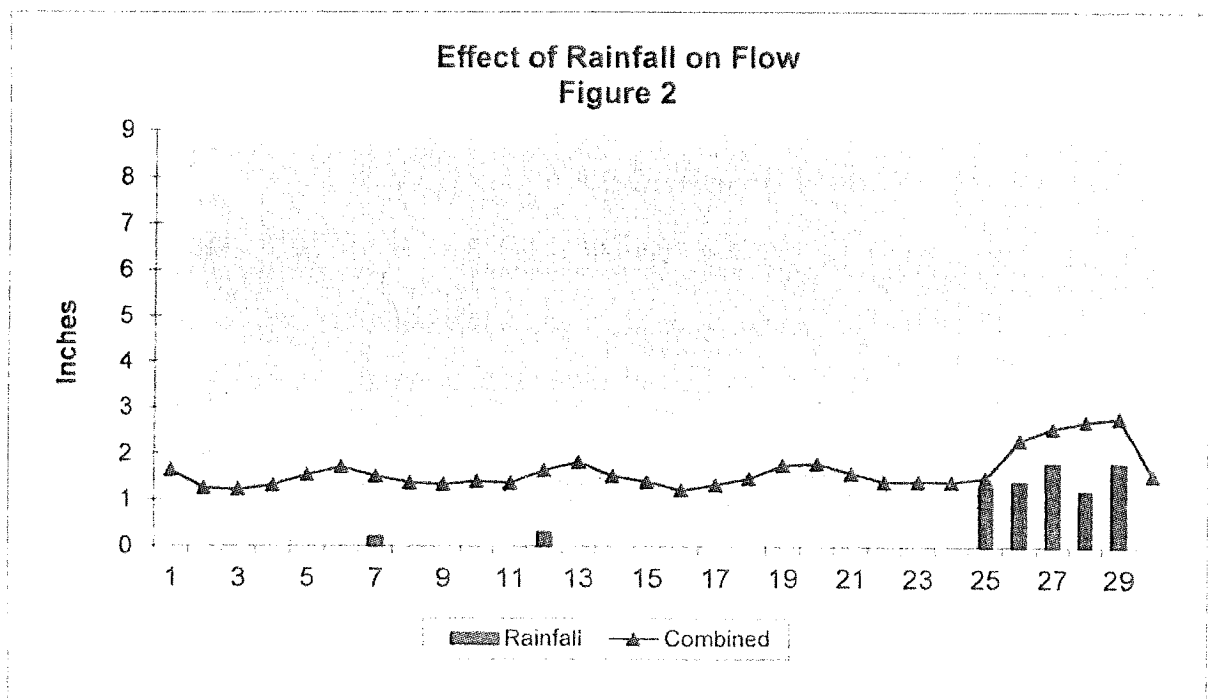
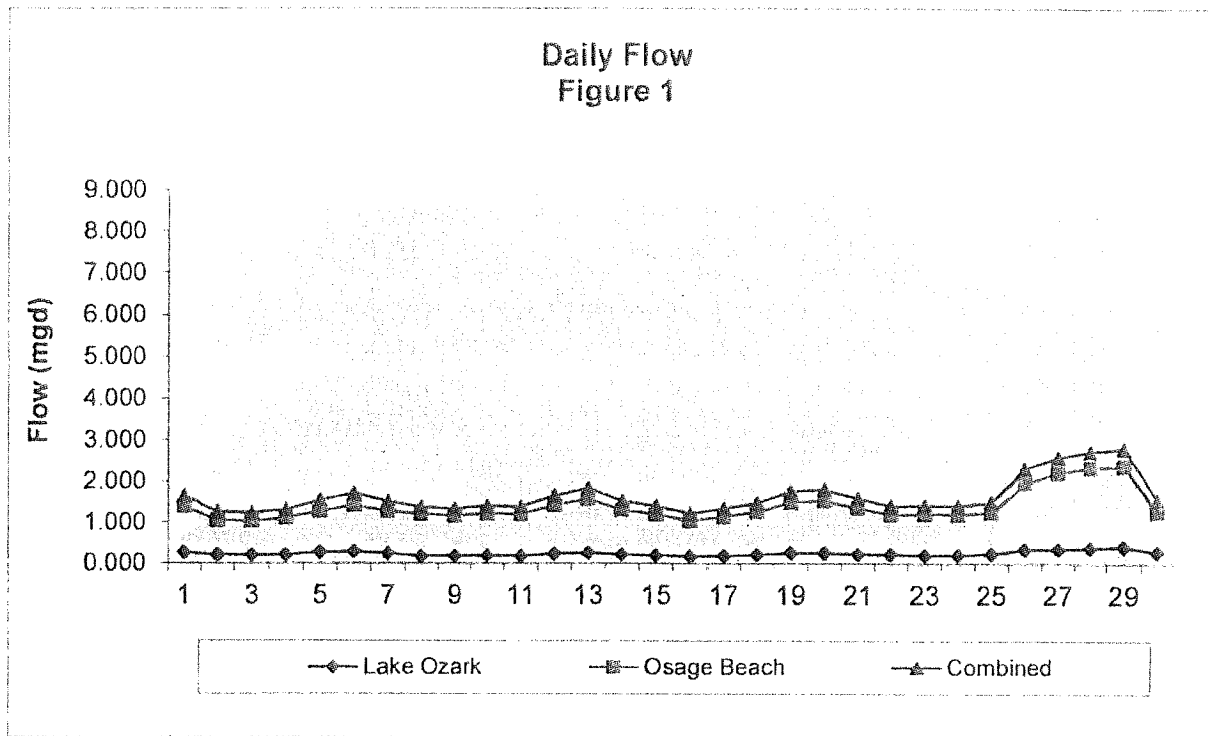
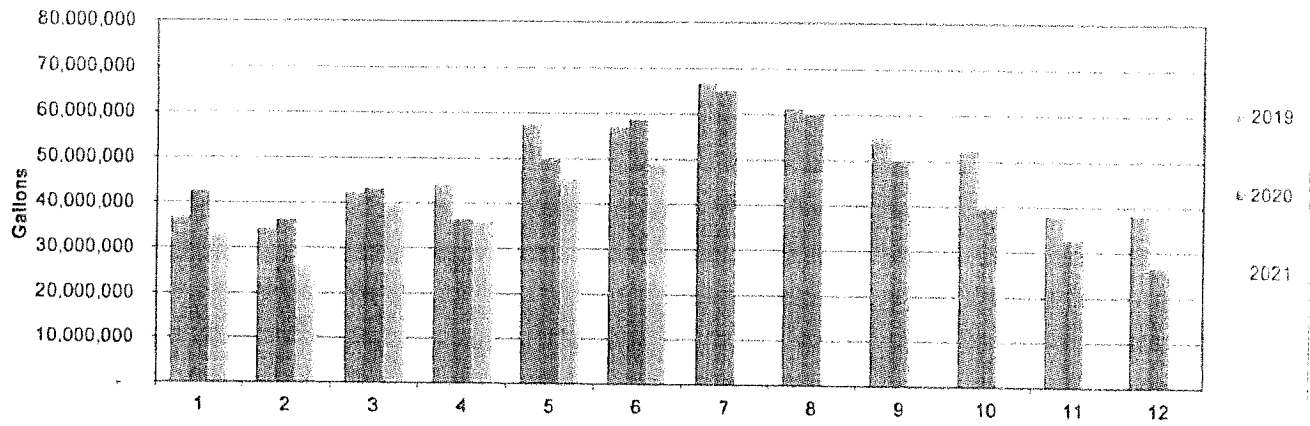


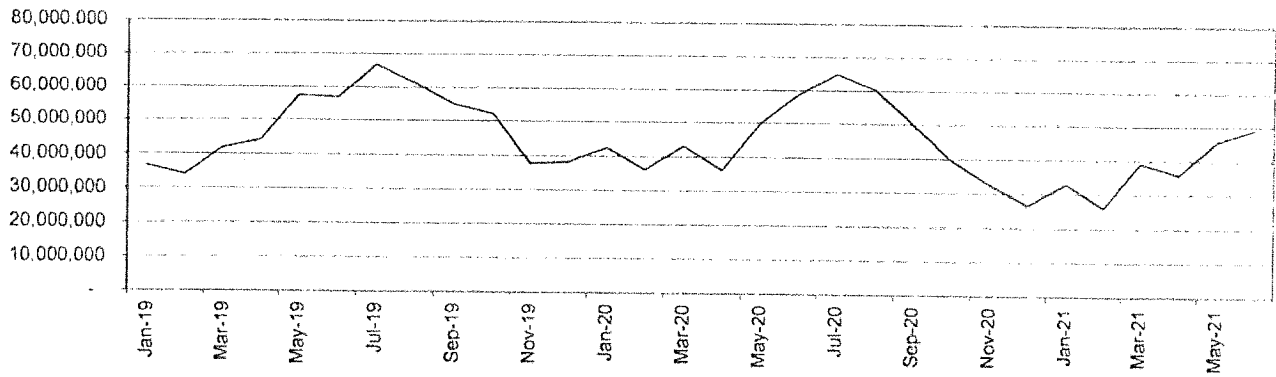
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2019</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June	6.0	49,051,000	86%	7,864,000	14%	56,915,000	100%
July	4.8	57,666,000	86%	9,132,000	14%	66,798,000	100%
August	6.0	53,074,000	87%	8,215,000	13%	61,289,000	100%
September	3.5	47,732,000	87%	7,165,000	13%	54,897,000	100%
October	11.1	44,971,000	86%	7,194,000	14%	52,165,000	100%
November	3.5	33,141,000	87%	4,779,000	13%	37,920,000	100%
December	1.8	33,575,000	88%	4,708,000	12%	38,283,000	100%
	63.2	504,112,000	86%	78,759,000	13%	582,871,000	100%
<u>2020</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	7.7	36,806,000	86%	5,780,000	14%	42,586,000	100%
February	3.6	31,279,000	86%	4,986,000	14%	36,265,000	100%
March	6.1	37,286,000	86%	5,888,000	14%	43,174,000	100%
April	5.2	31,967,000	88%	4,324,000	12%	36,291,000	100%
May	5.3	43,538,000	87%	6,443,000	13%	49,981,000	100%
June	4.8	50,936,000	87%	7,780,000	13%	58,716,000	100%
July	6.9	56,437,000	87%	8,616,000	13%	65,053,000	100%
August	2.3	52,449,000	87%	7,883,000	13%	60,332,000	100%
September	8.4	42,235,000	85%	7,636,000	15%	49,871,000	100%
October	5.4	33,173,000	84%	6,448,000	16%	39,621,000	100%
November	4.3	27,630,000	84%	5,102,000	16%	32,732,000	100%
December	1.3	22,749,000	85%	3,949,000	15%	26,698,000	100%
	61.3	466,485,000	86%	74,835,000	14%	541,320,000	100%
<u>2021</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	6.0	28,107,000	85%	4,855,000	15%	32,962,000	100%
February	3.0	22,136,000	85%	4,048,000	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0	41,695,000	85%	7,390,000	15%	49,085,000	100%
July							
August							
September							
October							
November							
December							
	31.4	192,929,000	84%	36,014,000	16%	228,943,000	100%

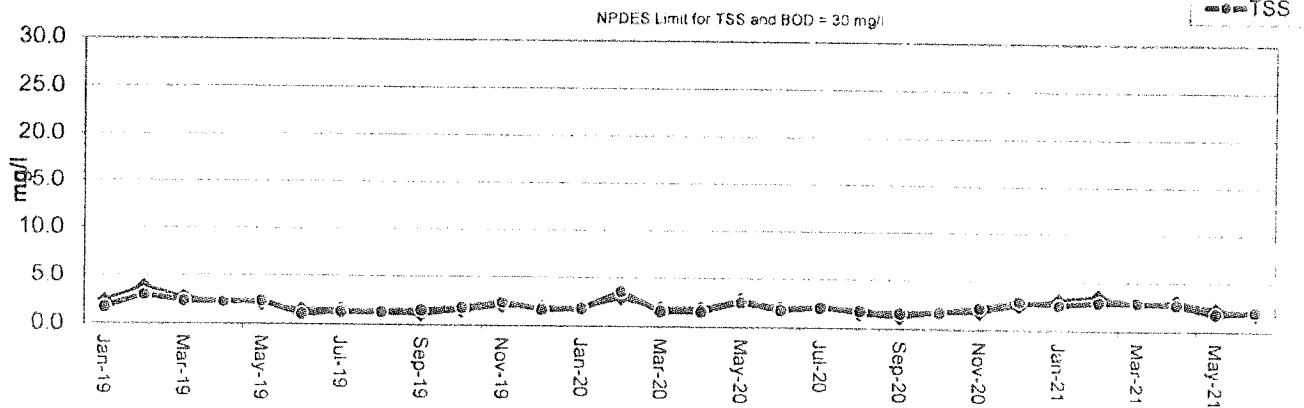
Monthly Influent Flow
Figure 3A



Monthly Influent Flow
Figure 3B



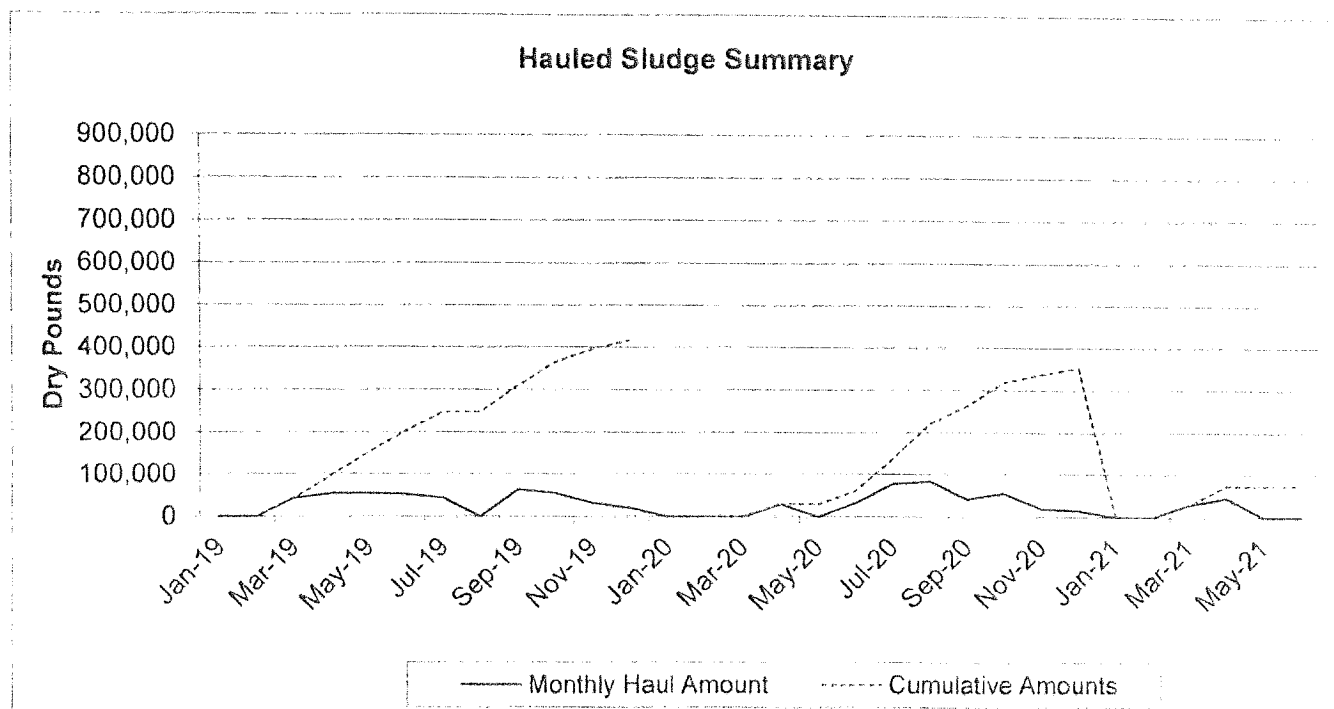
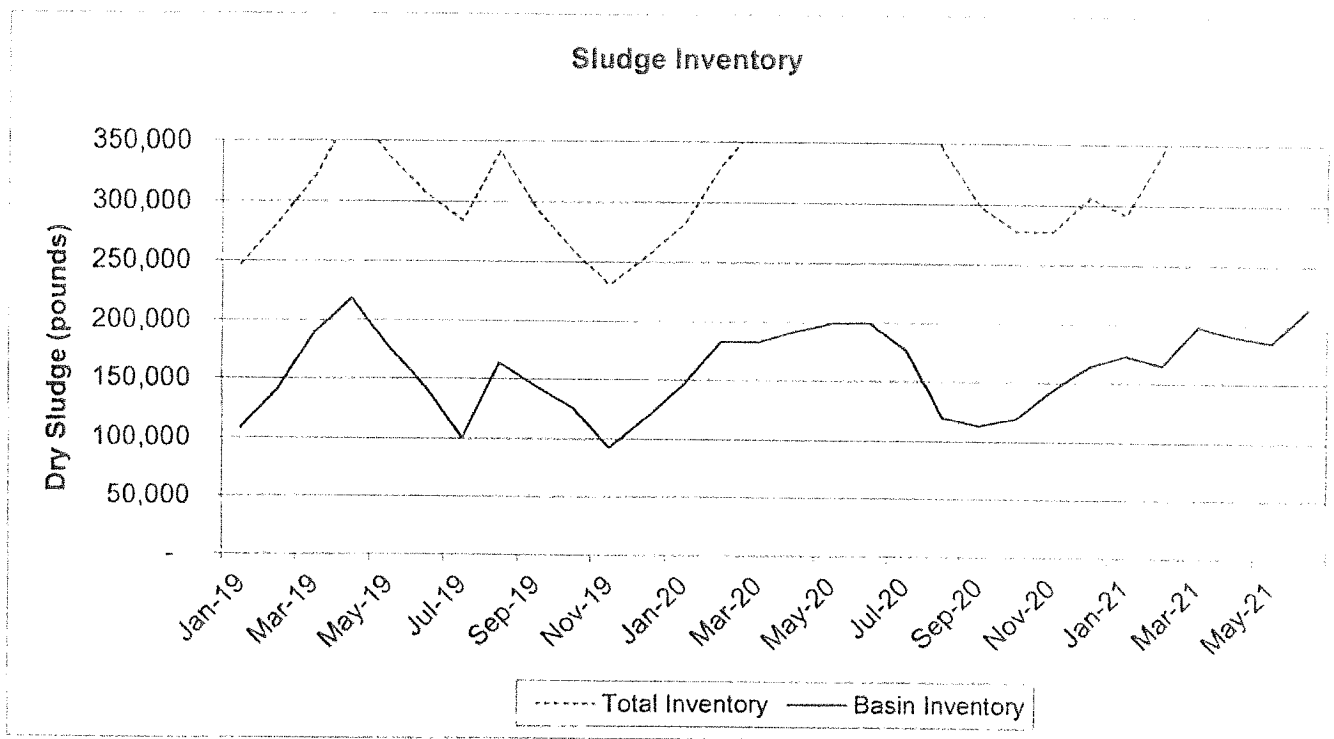
Effluent BOD/TSS
Figure 4



	Hauled Sludge				
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry
Jan-19	0	-	0	3.4%	-
Feb-19	0	-	0	3.4%	-
Mar-19	36	133,200	43,139	3.9%	43,139
Apr-19	39	144,300	53,940	4.5%	97,079
May-19	49	181,300	54,866	3.6%	151,945
Jun-19	44	162,800	51,872	3.8%	203,817
Jul-19	37	136,900	43,633	3.8%	247,450
Aug-19	0	-	0	3.8%	247,450
Sep-19	58	214,600	82,487	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	3.9%	416,951
Jan-20	0	-	0	3.9%	-
Feb-20	0	-	0	3.9%	-
Mar-20	0	-	0	3.9%	-
Apr-20	25	92,500	29,315	3.8%	29,315
May-20	0	-	0	3.8%	29,315
Jun-20	25	92,500	31,680	4.1%	60,975
Jul-20	69	255,300	77,268	3.6%	138,243
Aug-20	76	281,200	83,286	3.6%	221,529
Sep-20	38	140,600	41,627	3.5%	263,156
Oct-20	45	166,500	55,298	4.0%	318,454
Nov-20	18	66,600	19,255	3.5%	337,709
Dec-20	11	40,700	14,843	4.4%	352,552
Jan-21	0	-	0	4.4%	-
Feb-21	0	-	0	4.4%	-
Mar-21	23	85,100	28,883	4.1%	28,883
Apr-21	39	144,300	45,289	3.8%	74,152
May-21	0	-	0	3.8%	74,152
Jun-21	0	-	0	3.8%	74,152

Basin Depths				
Tank #1	Tank #2	AB #1	Basin Gallons	# Dry
5.0	3.5	0.0	382,500	108,462
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
3.5	6.0	0.0	517,500	164,006
7.0	4.0	0.0	495,000	144,134
7.5	2.0	0.0	427,500	126,498
3.5	3.5	0.0	315,000	92,853
6.0	2.0	0.0	360,000	118,148
6.0	4.0	0.0	450,000	146,367
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	8.0	0.0	630,000	199,860
6.0	7.0	0.0	585,000	200,228
6.0	7.0	0.0	585,000	177,054
5.0	4.0	0.0	405,000	119,953
4.0	4.5	0.0	382,500	113,246
5.0	3.0	0.0	360,000	119,563
5.0	6.0	0.0	495,000	143,111
4.5	5.5	0.0	450,000	184,112
7.0	3.5	0.0	472,500	173,389
5.0	5.0	0.0	450,000	165,132
6.0	7.0	0.0	585,000	198,549
6.0	7.5	0.0	607,500	190,582
6.0	7.0	0.0	585,000	185,398
7.0	8.0	0.0	675,000	213,921

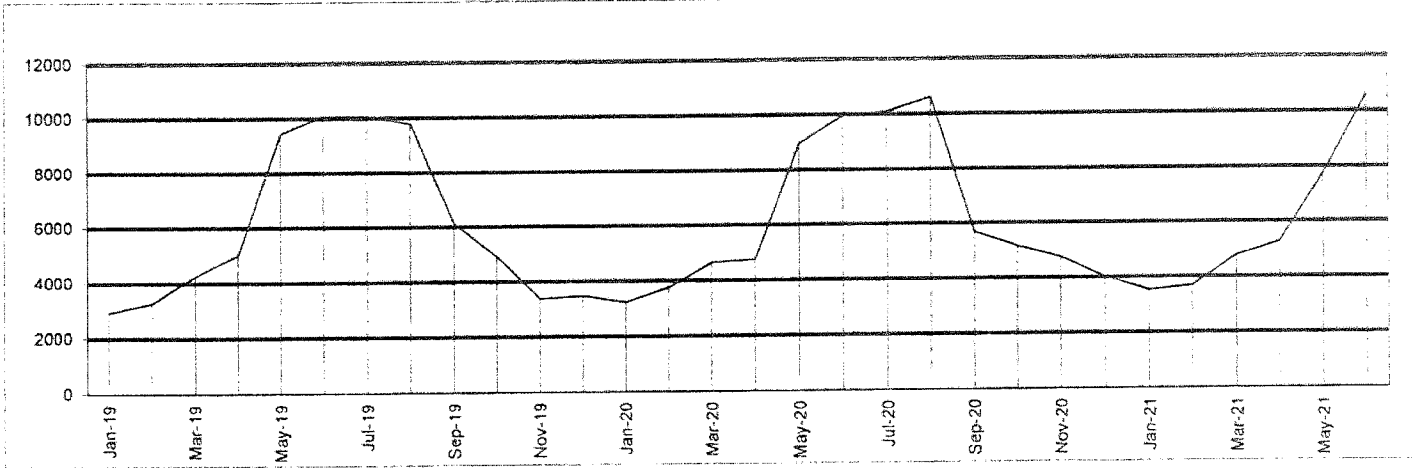
Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874	18	46,500
1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00486	281,503	31	79,500
0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,033	9	21,500
1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	375,923	23	61,500
3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	337,113	12	25,500
2.0	4.0	1.5	5,610	4,810	3,771,714	163,886	0.00521	307,267	19	47,500
2.0	3.0	0.5	6,060	5,830	3,710,524	163,973	0.00595	284,370	36	84,000
5.0	3.0	0.5	5,680	5,680	3,763,810	177,982	0.00567	341,988	29	72,500
2.0	1.0	1.0	4,460	5,310	3,696,714	150,607	0.00489	294,741	22	55,000
2.5	3.0	1.0	4,170	4,360	3,741,119	132,916	0.00426	259,414	40	97,000
3.5	5.0	0.0	4,980	3,850	3,750,977	138,115	0.00442	230,968	15	36,000
1.0	1.0	0.0	5,090	3,940	3,635,524	136,896	0.00452	255,044	14	32,000
1.0	1.5	0.0	4,260	4,690	3,644,405	136,015	0.00448	282,382	16	34,100
3.5	2.0	0.0	5,190	4,390	3,697,691	147,718	0.00479	330,676	23	57,000
2.0	5.0	1.0	5,760	5,940	3,767,762	183,825	0.00585	366,784	25	64,500
1.0	1.0	1.0	5,740	5,290	3,678,952	169,214	0.00552	361,742	39	107,000
1.0	7.0	1.0	6,010	6,110	3,785,524	191,322	0.00606	390,981	35	83,000
6.0	7.0	0.5	7,050	7,120	3,852,620	227,847	0.00709	427,875	6	18,000
7.0	7.0	1.0	6,890	7,380	3,892,096	231,603	0.00714	408,656	88	208,000
6.0	6.0	1.0	6,530	7,400	3,856,572	224,021	0.00697	343,974	67	158,000
1.0	1.0	0.5	6,000	6,200	3,657,238	186,058	0.0061	299,304	45	104,500
1.0	1.0	1.0	4,960	5,070	3,678,952	158,015	0.00515	277,578	16	32,000
1.0	0.0	0.5	4,780	4,080	3,639,476	134,465	0.00443	277,576	16	36,000
1.0	0.0	0.5	5,030	4,360	3,639,476	142,508	0.0047	306,620	33	69,000
6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0038	292,077	83	205,500
5.0	8.0	0.0	5,490	5,750	3,830,806	179,558	0.00562	344,690	28	69,500
2.0	5.0	0.5	6,830	6,330	3,746,048	205,573	0.00658	404,122	32	70,000
12.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957	22	52,000
13.0	14.0	1.0	6,200	6,330	4,123,002	215,427	0.00627	400,825	48	128,500
6.0	7.5	2.0	7,117	7,228	3,926,643	234,903	0.00717	446,824	47	111,500



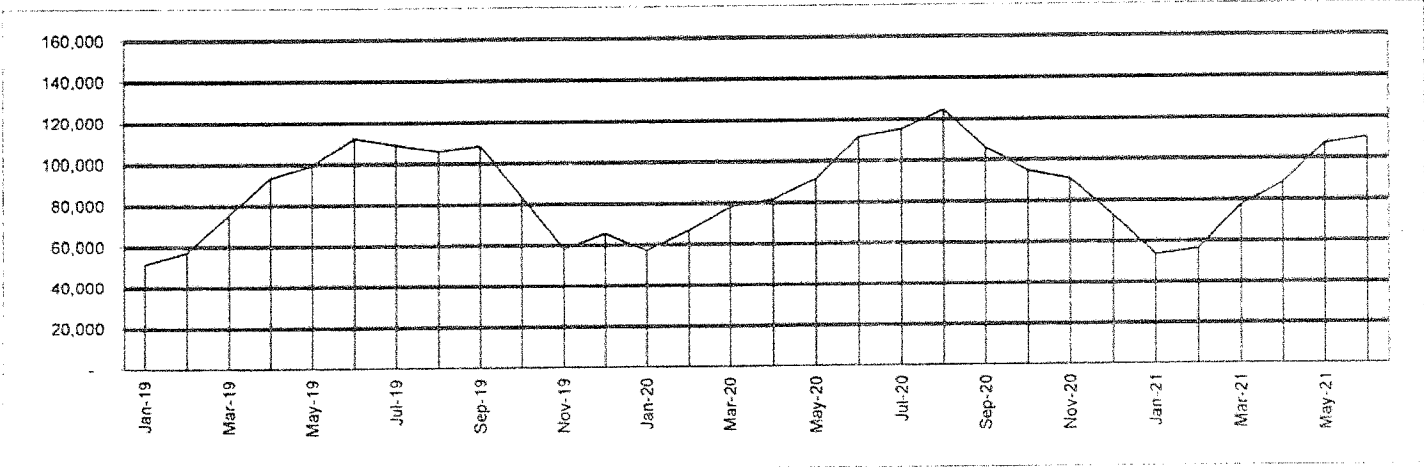
Electric Cost Kilowatts Used

Jan-19	2926	51,490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330
Jun-19	10074	112,400
Jul-19	10066	109,190
Aug-19	9784	106,020
Sep-19	6115	108,680
Oct-19	4920	83,790
Nov-19	3390	58,410
Dec-19	3482	65,660
Jan-20	3259	57,250
Feb-20	3760	66,830
Mar-20	4637	78,070
Apr-20	4741	81,780
May-20	8962	91,550
Jun-20	9959	111,680
Jul-20	10100	115,300
Aug-20	10619	124,800
Sep-20	5669	106,220
Oct-20	5155	94,870
Nov-20	4734	90,890
Dec-20	4009	73,020
Jan-21	3524	53,730
Feb-21	3696	56,370
Mar-21	4776	77,720
Apr-21	5281	88,390
May-21	7727	107,320
Jun-21	10610	110,130

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-21		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			19.0	2.151	7.6				4.6	< 20	19.8			
2	7.2			19.0	1.719	7.6				4.6		19.7			
3	7.2			19.4	1.735	7.7			0.10	5.6		20.1			
4	7.1	248	312	19.7	1.770	7.7	1.8	1.9		4.8		20.8	99.3	99.4	
5	7.1			19.4	2.011	7.7				5.2		20.7			
6	7.3			19.9	2.199	7.7				4.3		21.5			
7	7.2			20.8	1.979	7.7				4.3	29.3	22.3			
8	7.1			21.0	1.815	7.8				4.8		22.6			
9	7.3			23.1	1.798	7.8				5.3		23.4			
10	7.2			22.3	1.829	7.7			0.15	5.1		24.0			
11	7.1	340	848	22.6	1.840	7.8	1.6	2.0		4.6		24.3	99.5	99.8	
12	7.3			21.2	2.103	7.7				4.7		22.8			
13	7.4			21.6	2.217	7.6				4.0		23.3			
14	7.2			22.7	1.985	7.7				4.8		23.9			
15	7.3			22.4	1.800	7.9				5.0	49.8	24.5			
16	7.3			23.5	1.622	7.9				5.3		25.1			
17	7.2			23.2	1.684	7.9			0.12	5.4		24.4			
18	7.1	250	286	23.5	1.894	7.8	1.5	2.4		5.2		25.0	99.4	99.2	
19	7.3			23.4	2.037	7.8				4.9		25.3			
20	7.3			23.5	2.163	7.9				5.0		25.3			
21	7.1			22.6	1.953	7.9				4.8	< 20	23.6			
22	7.2			22.2	1.753	7.7				5.1		23.2			
23	7.2			22.2	1.841	7.8				5.6		23.2			
24	7.2			22.6	1.862	7.8			0.11	5.0		23.2			
25	7.2	220	260	22.0	1.844	7.7	2.1	1.7		4.7		22.5	99.0	99.3	
26	7.3			23.1	2.902	7.7				4.4		23.8			
27	7.2			23.3	3.133	7.6				3.5		23.9			
28	7.3			23.0	3.184	7.7				4.6		24.4			
29	7.3			23.6	3.455	7.6				8.0		24.4			
30	7.4			24.4	1.931	7.9				8.0		24.6			
Total					62.209										
Avg		265	427	22.0	2.074		1.8	2.0	0.12	5.0	8.4	23.2	99.3	99.4	
Min	7.1	220	260	19.0	1.622	7.6	1.5	1.7	0.10	3.5	< 20	19.7	99.0	99.2	
Max	7.4	340	848	24.4	3.455	7.9	2.1	2.4	0.15	8.0	49.8	25.3	99.5	99.6	

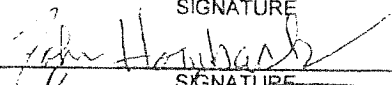
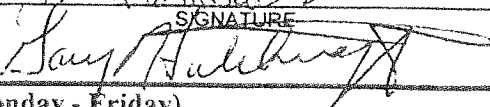
MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9	< 4.9	< 1.0	289	327						
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
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26										
27										
28										
29										
30										
Total	< 4.9	< 1.0	289	327						
Avg	< 4.9	< 1.0	289	327						
Min	< 4.9	< 1.0	289	327						
Max	< 4.9	< 1.0	289	327						

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		0.7	5,500	860	19.7	0.9	5,880	860	19.7	62	0	7:30
2		1.7	7,230	920	19.7	1.4	6,950	920	19.7	62	0	7:30
3		3.4	6,850	900	20.1	2.9	7,030	920	20.0	62	0	7:30
4		1.2	6,630	890	20.5	1.0	7,450	910	20.4	62	0	7:30
5		1.4	6,220	890	20.4	1.2	7,640	920	20.7	65	0	7:30
6		1.1	5,790	850	21.3	1.0	7,440	920	21.4	70	0	7:30
7		0.9	6,380	910	22.2	0.9	7,030	920	22.2	69	0.2	7:30
8		0.9	7,110	920	22.4	1.1	7,680	930	22.3	71	0	7:30
9		1.9	7,920	950	23.5	1.5	6,840	900	23.4	70	0	7:30
10		1.0	7,470	930	23.5	0.8	7,090	920	23.8	72	0	7:30
11		0.8	7,660	940	24.0	0.7	6,810	910	24.1	72	0	7:30
12		1.2	6,610	910	22.6	1.2	7,790	930	22.8	69	0.3	7:30
13		0.6	5,750	850	23.0	0.4	6,900	910	23.1	68	0	7:30
14		0.6	7,350	930	23.7	0.7	7,010	900	23.5	65	0	7:30
15		0.7	7,620	920	24.6	1.1	7,820	930	23.9	75	0	7:30
16		1.1	7,670	920	24.7	1.0	8,300	930	24.1	64	0	7:30
17		0.8	7,780	910	24.3	0.7	8,100	920	24.1	74	0	7:30
18		0.6	7,690	920	24.7	0.8	7,660	920	24.6	78	0	7:30
19		0.7	7,460	920	25.6	0.7	7,450	920	24.9	78	0	7:30
20		0.7	7,480	930	25.1	0.7	7,490	930	24.9	71	0	7:30
21		0.6	7,730	940	23.7	0.6	7,400	930	23.7	71	0	7:30
22		0.7	8,450	950	22.9	0.8	7,670	950	22.9	60	0	7:30
23		1.4	8,050	940	23.1	1.9	7,500	920	22.8	66	0	7:30
24		1.2	8,100	940	23.0	1.4	7,780	920	23.0	73	0	7:30
25		0.4	8,210	930	22.7	0.4	7,680	930	22.8	73	1.3	7:30
26		0.4	7,090	920	23.8	0.3	6,500	890	23.6	70	1.4	7:30
27		0.3	6,570	910	23.7	0.3	6,580	910	23.7	73	1.8	7:30
28		0.4	4,600	580	24.2	0.5	4,000	460	24.3	73	1.2	7:30
29		0.3	7,290	930	24.4	0.3	7,320	940	24.1	73	1.8	7:30
30		0.8	7,260	930	24.7	0.6	8,060	940	24.6	75	0	7:30

COMMENTS:

We started taking our Effluent DO readings at the end of our outfall/cascade aeration steps on the 29th of June which is technically the final stage of our treatment process.

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	7/13/2021
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	7/13/2021

*Required Daily (Monday - Friday)

**Required 1/week

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

Permit Number	Outfall Number
MO0103241	001A
Monitoring Period	
6/1/21	6/30/21
NOD1:	*****

Parameters	Reporting Requirements			Unit	Reporting Requirements			Unit
BOD, 5-day, 20 deg. C	*****	2.1	1.8	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****		
Sample Type: 24 Hour Composite								
Frequency: Weekly								
Flow, in conduit or thru treatment plant	*****	*****	*****	*****	3.455	2.074	Mgal/d	
Mon. Location.: End of Pipe	*****;*****	*****;*****	*****;*****		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required		
Sample Type: Total Measured								
Frequency: Daily								
pH	7.6	*****	7.9	SU	*****	*****	*****	
Mon. Location.: End of Pipe	Minimum:6.5	*****;*****	Maximum:9.0		*****;*****	*****;*****		
Sample Type: Grab								
Frequency: Weekly								
Total Suspended Solids (TSS)	*****	2.4	2.0	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	*****;*****	Weekly Avg.:45	Monthly Avg.:30		*****;*****	*****;*****		
Sample Type: 24 Hour Composite								
Frequency: Weekly								
Nitrogen, ammonia total (as N)	0.15	*****	0.12	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.:6.0	*****;*****	Monthly Avg.:1.1		*****;*****	*****;*****		
Sample Type: Grab								
Frequency: Weekly								
Oil and grease (soxhlet extr.) tot.	<4.9	*****	<4.9	mg/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.:15	*****;*****	Monthly Avg.:10		*****;*****	*****;*****		
Sample Type: Grab								
Frequency: Monthly								
Escherichia coli (E. coli)	*****	49.8	8.4	#/100mL	*****	*****	*****	
Mon. Location.: End of Pipe	*****;*****	7 Day Geo.:630	30 Day Geo. Mean:126		*****;*****	*****;*****		
Sample Type: Grab								
Frequency: Weekly								
Selenium (Se), total recoverable	<1.0	*****	<1.0	ug/L	*****	*****	*****	
Mon. Location.: End of Pipe	Daily Max.:9.1	*****;*****	Monthly Avg.:3.6		*****;*****	*****;*****		
Sample Type: Grab								
Frequency: Monthly								

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

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

BOD, 5-day, percent removal	*****	*****	99.0	%	*****	*****	*****
Mon. Location: End of Pipe	*****	*****	Monthly Avg.		*****	*****	
Sample Type: Calculated			Min.:85				
Frequency: Monthly							
Suspended Solids, percent removal	*****	*****	99.2	%	*****	*****	*****
Mon. Location: End of Pipe	*****	*****	Monthly Avg.		*****	*****	
Sample Type: Calculated			Min.:85				
Frequency: Monthly							
Comments:							

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

Permit Number	Outfall Number
MO0103241	SM2A
Monitoring Period	
6/1/21	6/30/21
NODI:	*****

Parameters	Reporting Requirements		Unit	Reporting Requirements		Unit
Hardness, total (as CaCO3)	327	*****	327	mg/l.	*****	*****
Mon. Location: Instream Monitoring	Daily Max.: Monitoring Required	*****	Monthly Avg.: Monitoring Required	*****	*****	*****
Sample Type: Grab						
Frequency: Monthly						
Comments:						

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

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

eSignature
Gary Hutchcraft

Submission Date
July 13, 2021

User Phone Number
(573)365-0455

2021

² *Le rôle des juges au sein du tribunal*. Sur ce thème, voir notamment, Ch. Lallemand, *Le juge, le jury et le juré*, p. 10.