

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
REVISED AGENDA
OCTOBER 19, 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, Kevin Rucker
Alderman, Lake Ozark, Pat Thompson
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

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4. REPORTS

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Income & Expense Summary 12

September Alliance Report of Operations 13-34

Approval of Flow Charts September 2021

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Review of bids; spare UV parts, air cylinders, sleeves 33
B. Review of bids; rebuild of 3 – Fairbanks Morse RAS pumps 34
C. 2021 Budget Amendment 35
D. 2022 Operating Budget 36-40

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE NOVEMBER 23, 2021 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes - September 21, 2021

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, September 21, 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 – Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Kevin Rucker – Absent
Alderman Lake Ozark, Pat Thompson - Present
Public Works Director Lake Ozark, Matt Michalik – Present
Public Works Operations Manager Kevin Crooks – Present
Resident Member, Mr. Gary Hamner – Present

MINUTES:

Director Michalik motioned to approve the meeting minutes of August 17, 2021. His motion was seconded by 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 Administrator Woods to approve the documents and pay the bills. Her motion was seconded by Mayor Newberry and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for August was 1.575 mgd. We had 1.8 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.0 mg/l and TSS of 1.8 mg/l respectively for June which represents a 98.9% or better removal.

The MLSS average for both aeration basins was 7,695 mg/l. The total dry weight sludge inventory for August totaled 359,791 pounds. There were 153 tanker loads of septage or 166,363 gallons. 66 loads of septage or 163,000 gallons of septage were received in August.

APPROVAL OF FLOW CHART

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

OLD BUSINESS:

- A. Board Representative Update. Director Michalik advised that all was running and back in order with the new sludge truck. Discussion ensued.

NEW BUSINESS:

- A. Sale of old sludge truck. After discussion, Administrator Woods motioned to list the old sludge truck to sell on Purple Wave. Her motion was seconded by Director Michalik and was then unanimously approved.
- B. DNR Finding of Compliance. The Findings of Compliance was reviewed and discussed. No action was taken.

ADDITIONAL DISCUSSION ITEMS: None at this time.

ADJOURNMENT:

With no further business to discuss, the meeting adjourned at 4:27 pm.

Mayor, John Olivarri

City Collector, Robin Craig

JOINT SEWER BOARD
BILL LIST
OCTOBER 19, 2021

| | | |
|---|-----------|------------------|
| OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING: | \$ | 407.40 |
| OPERATING FUND BILLS TO BE PAID: | \$ | 45,325.56 |
| EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING: | \$ | - |
| EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID: | \$ | 1,675.71 |
| TOTAL | \$ | 47,408.67 |

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

| Account | Check | Paid To: | Description | Amount: |
|--------------|-------|------------------|-------------|------------------|
| 4020 | 477 | Mission Comm LLC | 11673321 | \$ 407.40 |
| TOTAL | | | | \$ 407.40 |

OPERATING FUND BILLS TO BE PAID:

| Account | Check | Paid To: | Description: | Amount: |
|--------------|-------|--------------------------------|---------------------------------|---------------------|
| 4000 | 478 | Equipment Replacement Fund | Payment into ER Fund | \$ 10,134.00 |
| 4020 | 479 | CWD Supply | Anchor bolts | \$ 18.80 |
| 4020 | 480 | Dam Steel & Supply, Inc. | Steel Plate for UV filter/dryer | \$ 107.96 |
| 4020 | 481 | Jani King | Oct. | \$ 197.15 |
| 4020 | 482 | M/C Quickbooks | Accounting Software | \$ 12.50 |
| 4020 | 483 | Menards | Weed Killer | \$ 39.96 |
| 4020 | 483 | Menards | Temp Wire for Bar Screens | \$ 187.00 |
| 4170 | 484 | Alliance Water Resources, Inc. | Oct. | \$ 25,720.00 |
| 4175 | 485 | Ameren MO | 11673321 | \$ 6,493.50 |
| 4175 | 485 | Ameren MO | 98041275 | \$ 257.74 |
| 4176 | 486 | AT&T | Oct. | \$ 104.69 |
| 4176 | 487 | Republic | Oct. | \$ 52.26 |
| TOTAL | | | | \$ 45,325.56 |

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 | 1064 | McMaster-Carr | Replace Pista Grit Cart | \$ 1,675.71 |
| TOTAL | | | | \$ 1,675.71 |



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- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.426.3135

FOCUSED ENERGY. For life.

Account Number: 4560005832
 Customer Name: ALLIANCE WATER RESOURCES INC
 Service Address: 3 ANDERSON RD.
 LAKE OZARK, MO 65049

AMOUNT DUE \$8,493.50

Due Date 10/26/2021

Total Electric Charges \$8,493.50

Amount After Due Date \$8,620.00

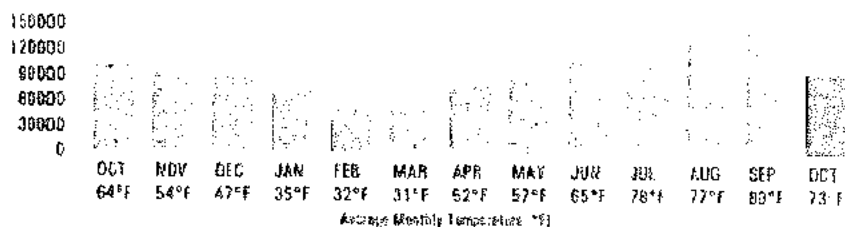
Total Amount Due \$12,639.03

Previous Statement \$12,639.03

Total Payments \$12,639.03

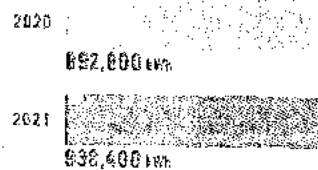
Payment Received: Thank You

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 5.1% MORE than last year.



Usage from Jan-Oct for 2020 & 2021

03072 63042 6595010 007562 651523 00010002

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com

GL Acct#: 4175

Signature: [Handwritten Signature]

Date: 10/7/21



See next page for service details.

Keep this portion for your records.

Page 1 of 4

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Check if you have address changes on back.

| Amount Due | Due Date |
|----------------------------------|------------------|
| \$8,493.50 | October 26, 2021 |
| Delinquent Amount After Due Date | Account Number |
| \$8,620.00 | 4560005832 |

Amount Enclosed \$

>003642 6599070 0012 092139 30Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

00600000 0045800058302 000008443500 000008443500



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FOCUSSED ENERGY. For li

Electric Service Details Starting from 09/01/2021 to 10/01/2021 (10/01/2021)

Electric Meter Read

| METER NUMBER | SERVICE FROM TO | METER TYPE | USAGE TYPE | READING TYPE | EVEREST READING | PREVIOUS READING | READING DIFFERENCE | BASE VALUE | USAGE |
|--------------|-----------------|------------|------------|--------------|-----------------|------------------|--------------------|------------|-----------|
| 11673321 | 09/06 - 10/05 | 28 | Total kWh | Actual | 68573.0000 | 68223.0000 | 350.0000 | 180.0000 | 8400.0000 |
| 11673321 | 09/06 - 10/05 | 28 | Peak kW | Actual | 1.0150 | 0.8000 | 1.2150 | 180.0000 | 162.4000 |

Usage Summary

| | | | |
|---------------------|------------|----------------------|------------|
| Total kWh | 8400.0000 | Summer kWh | 78124.0000 |
| Non-Summer kWh | 16276.0000 | Peak kW | 162.4000 |
| Billing Demand | 162.4000 | Total Billing Demand | 162.4000 |
| Current Base Demand | 162.4000 | Base kWh Ratio | 1.0000 |
| Base kWh (HUD) | 16276.0000 | Seasonal kWh (HUD) | 0.0000 |
| October Base Demand | 162.4000 | | |

Rate 3M Large General Service

| DESCRIPTION | USAGE | UNIT | RATE | CHARGE |
|-------------------------------------|-----------|------|-----------------|-------------------|
| Seasonal Energy Charge | 0.00 | kWh | @ \$ 0.03560000 | \$0.00 |
| Summer Demand Charge | 162.40 | kW | @ \$ 4.46896440 | \$725.75 |
| Winter Demand Charge | 162.40 | kW | @ \$ 0.34482600 | \$56.00 |
| Energy Charge/Hours Used | 24,360.00 | kWh | @ \$ 0.09690000 | \$2,360.48 |
| Energy Charge/Hours Used | 32,460.00 | kWh | @ \$ 0.07290000 | \$2,367.79 |
| Energy Charge/Hours Used | 21,284.00 | kWh | @ \$ 0.04910000 | \$1,045.04 |
| Base Energy Charge / Hours Used | 16,276.00 | kWh | @ \$ 0.06090000 | \$981.21 |
| Customer Charge | | | | \$85.29 |
| Fuel Adjustment Charge | 84,400.00 | kWh | @ \$ 0.00326273 | \$308.00 |
| Energy Efficiency Investment Charge | 84,400.00 | kWh | @ \$ 0.00559200 | \$527.88 |
| Renewable Energy Adjustment | 84,400.00 | kWh | @ \$ 0.00017000 | \$16.05 |
| Total Service Amount | | | | \$8,493.50 |
| Total Electric Charges | | | | \$8,493.50 |






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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-  ONLINE E-CHECK
-  PHONE 666.266.3729
-  IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION
-  ONLINE CREDIT CARD
-  MAIL ST. 1B & CHECK



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- Pay by mail: PO Box 88068 Chicago, IL 60680-1068
- Pay online or manage your account: AmerenMissouri.com
- Customer Service: 1.877.421.8736

FOCUSED ENERGY. For life.

Account Number 6660005520
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65048

AMOUNT DUE \$257.74
 Due Date 10/28/2021

Total Electric Charges \$257.74

Amount After Due Date \$281.81

Total Amount Due \$257.74

Previous Statement \$187.87

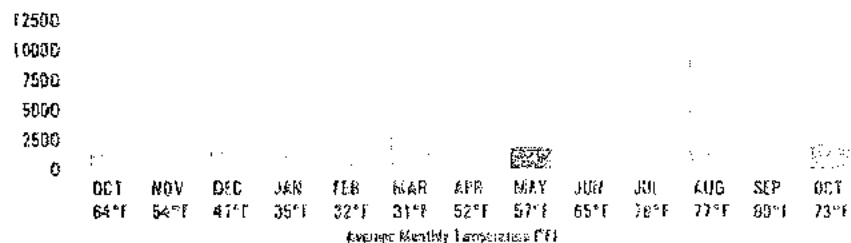
Total Payments \$187.87

Payment Received. Thank You

PAID
 OCT 07 2021

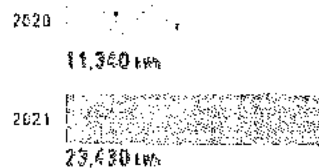
Electric Usage Summary

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

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



Usage from Jan-Oct for 2020 & 2021

20201000 515510 567070 030705 040805 050905 061005 071105 081205 091305 101405 111505 121605 131705 141805 151905 162005 172105 182205 192305 202405 212505 222605 232705 242805 252905 263005 273105 280106 290206 300306 310406

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Update your account information so we can contact you when crews are working in your neighborhood. Fill in the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com

GL Acct#: 4175
 Signature: [Handwritten Signature]
 Date: 10/7/21



See next page for service details.

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Page 1 of 4

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| | |
|-----------------------|------------------|
| Account Due | Amount Due |
| 6607.74 | October 26, 2021 |
| Amount After Due Date | Account Number |
| 6281.81 | 6660005520 |

Amount Enclosed \$

>003675 6599070 0012 092139 102

ALLIANCE WATER RESOURCES INC
 PO BOX 1985
 LAKE OZARK, MO 65048-1985

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680 1068

30633000 0055600059200 000000257740 000000257740



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FOCUSED ENERGY. For *li'*

Electric Meter Read Service from 09/05/2015 to 10/05/2015

Electric Meter Read

| METER NUMBER | SERVICE GROUP | NO. DAYS | UNIT OF MEASUREMENT | READING TYPE | STARTED READING | PREVIOUS READING | READING DIFFERENCE | CURRENT READING | USAGE |
|--------------|---------------|----------|---------------------|--------------|-----------------|------------------|--------------------|-----------------|-----------|
| 86041275 | 0906-10/05 | 29 | Total kWh | Actual | 23448.0000 | 23228.0000 | 220.0000 | 10.0000 | 2200.0000 |
| 86041275 | 0906-10/05 | 29 | Peak kW | Actual | 4.5380 | 0.0000 | 4.5380 | 10.0000 | 45.3800 |

Usage Summary

| | | | |
|---------------------|-----------|--------------------------|-----------|
| Total kWh | 2200.0000 | Summer kWh | 1821.0000 |
| Non-Summer kWh | 379.0000 | Base kWh | 1830.0000 |
| Winter Base kWh | 1830.0000 | Current October Base kWh | 1830.0000 |
| Summer Cur Oct Base | 1514.0000 | Winter Cur Oct Base | 318.0000 |
| Seasonal kWh | 370.0000 | Summer Seasonal kWh | 306.0000 |
| Winter Seasonal kWh | 64.0000 | | |

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

Threshold - Peak Demand

| DESCRIPTION | USAGE | UNIT | RATE | CHARGE |
|-------------------------------------|----------|------|-------------------------------|-----------------|
| Summer Total Energy Charge | 1,821.00 | kWh | @ \$ 0.10430000 | \$169.93 |
| Base Energy Charge | 318.00 | kWh | @ \$ 0.07790000 | \$24.82 |
| Seasonal Energy Charge | 64.00 | kWh | @ \$ 0.04490000 | \$2.87 |
| Customer Charge | | | | \$19.99 |
| Fuel Adjustment Charge | 2,200.00 | kWh | @ \$ 0.00326273 | \$7.16 |
| Energy Efficiency Investment Charge | 2,200.00 | kWh | @ \$ 0.00581100 | \$12.78 |
| Renewable Energy Adjustment | 2,200.00 | kWh | @ \$ 0.00017000 | \$0.37 |
| | | | Total Service Amount | \$257.74 |
| | | | Total Electric Charges | \$257.74 |






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-  IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION
-  ONLINE CREDIT CARD
-  MAIL ST 26 & CHECK

McMASTER-CARR

Invoice

630-600-3600
 630-834-9427 (fax)
 ch sales@mcmaster.com

| | |
|--|-----------------|
| Purchase Order | 0923GHUTCHCRAFT |
| Total | \$1,675.71 |
| Invoice | 65759206 |
| Invoice Date | 9/29/21 |
| Payment Terms | 2% 10, Net 30 |
| Deduct \$30.81 on merchandise if paid by 10/9/21 | |

Billed to
 JOINT SEWER BOARD
 P O BOX 1985
 LAKE OZARK MO 65049-1985

Shipped to
 Alliance Water Resources
 C/O Joint Sewer Board
 3 Anderson Rd
 Lake Ozark MO 65049

Mail Payment to
 McMaster-Carr
 PO Box 7690
 Chicago IL 60680-7690

Your Account 357744600

Gary Hutchcraft placed this order

| Line | Product | Ordered | Shipped | Balance | Price | Total |
|------|---|-----------|---------|---------|------------------|-------------------|
| 1 | 2610T33 Wheelbarrow with Reinforced Rockers, Blue Painted Steel, 8 cu ft Capacity | 1 Each | 1 | 0 | 1,540.50 Each | 1,540.50 |
| | | | | | Merchandise | 1,540.50 |
| | | | | | Shipping | 135.21 |
| | | | | | Total | \$1,675.71 |

| Packing List | Shipped | Weight | Carrier | Tracking |
|--------------|---------|--------|---------------|-----------|
| 5562023-11 | 9/28/21 | 191 lb | XPO Logistics | 635559451 |

REPLACEMENT PISTA GRIT CART

GL Acct#: 4000

Signature: *Gary Hutchcraft*

Date: 9/30/21

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

| Account Number | Account Name | 9/30/2021 | | 2021 Budget | 2021 Actual as of 9/30/2021 | 2021 Sept. Revenue | Percent YTD |
|-----------------------------|--------------------|-------------------|-------------------|-------------------|-----------------------------------|--------------------------|----------------|
| | | 2019 Actual | 2020 Actual | | | | |
| 3020 | Osage Beach | 475,091.53 | 475,836.10 | 473,000.00 | 348,327.54 | 38,767.32 | 74% |
| 3010 | Lake Ozark | 74,908.46 | 74,163.90 | 77,000.00 | 64,172.45 | 7,066.01 | 83% |
| 3030 | Misc. | 0.00 | 4,500.00 | 0.00 | 0.00 | 0.00 | 0% |
| 3100 | Interest | 4,286.79 | 4,019.49 | 2,000.00 | 2,265.31 | 1.53 | 113% |
| 3060 | Waste Haulers' Fee | 26,260.00 | 39,320.00 | 36,000.00 | 51,560.00 | 10,320.00 | 143% |
| Total Operating Fund | | 580,546.78 | 597,839.49 | 588,000.00 | 466,325.30 | 56,154.86 | 79% |
| E/R Fund Income | | 9,001.77 | 8,955.85 | 6,000.00 | 4,459.70 | 817.12 | 74% |
| TOTAL INCOME | | 589,548.55 | 606,795.34 | 594,000.00 | 470,785.00 | 56,971.98 | 79% |

MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
8/30/2021

| Account Number | Account Name | 2019 Actual | 2020 Actual | 2021 Budget | 2021 Actual as of 9/30/2021 | 2021 Sept Expenses | Percent YTD |
|-----------------------|------------------------|-------------------|-------------------|-------------------|-----------------------------|--------------------|-------------|
| 4000 | Equipment Replace Fund | 41,604.00 | 71,604.00 | 121,606.00 | 91,206.00 | 10,134.00 | 75% |
| 4020 | *Maintenance & Repair | 104,062.97 | 26,299.36 | 36,800.00 | 84,549.96 | 3,342.81 | 230% |
| 4140 | Insurance | 18,761.00 | 19,885.00 | 19,200.00 | 21,493.00 | 2,414.00 | 112% |
| 4150 | Vehicle Repair/Main | 5,478.60 | 12,479.74 | 8,000.00 | 10,635.31 | 9,161.90 | 133% |
| 4170 | Contract Management | 289,592.00 | 305,580.00 | 314,752.00 | 231,480.00 | 29,720.00 | 74% |
| 4176 | Electric | 73,276.87 | 75,077.36 | 75,000.00 | 65,894.86 | 12,737.00 | 88% |
| 4176 | Utilities Misc. | 3,717.52 | 2,485.56 | 3,500.00 | 3,003.86 | 156.85 | 86% |
| 4190 | Bank Charges | 175.00 | 32.60 | 0.00 | 0.00 | 0.00 | 0% |
| 4200 | Audit | 2,400.00 | 2,648.50 | 2,600.00 | 2,600.00 | 0.00 | 100% |
| 4240 | Capital Purchases | 145,247.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0% |
| Totals | | 694,316.96 | 516,072.18 | 551,956.00 | 510,663.06 | 63,668.66 | 88% |
| **E/R Expenses | | 41,280.51 | 85,256.27 | 221,000.00 | 196,488.24 | 0.00 | 90% |
| TOTAL EXPENSES | | 735,597.47 | 601,330.45 | 802,956.00 | 710,351.30 | 63,668.66 | 88% |

2020 CARRY

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

**OPERATING FUND INCOME AND EXPENSE SUMMARY
9/30/2021**

| | |
|--|-----------------------|
| Beginning Balance | 305,293.79 |
| Income - Osage Beach | 38,767.32 |
| Income - Lake Ozark | 7,066.01 |
| Income - Other | - |
| Income - Waste Haulers' Fees | 10,320.00 |
| Interest - Checking | 1.53 |
| Income - CD Interest | - |
| Transfers From E/R Fund | - |
| Transfers to E/R Fund | (10,134.00) |
| Expenses | (53,532.66) |
| Ending Fund Balance | 297,781.99 |
| Central Bank - NOW Acct. | 77,935.52 |
| | - |
| CD First Bank of the Lake, 11/20/21 #101318432 | 106,915.65 |
| CD First Bank of the Lake, 7/22/22 #101318433 | 112,930.82 |
| | - |
| Outstanding Checks: | - |
| | 297,781.99 |

**EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
9/30/2021**

| | |
|--|-----------------------|
| Beginning Balance | 418,457.52 |
| Interest - Checking | 8.66 |
| Income - CD Interest | - |
| Transfers to E/R Fund | 10,134.00 |
| Income - Miscellaneous | - |
| Expenses | - |
| Ending Fund Balance | 428,600.18 |
| First Bank of the Lake - Money Mkt. | 49,252.82 |
| CD First Bank of the Lake, 7/30/21 #101318430 | 109,347.36 |
| CD First Bank of the Lake, 11/07/21 #101318434 | 270,000.00 |
| | - |
| | - |
| Outstanding Checks: | - |
| | 428,600.18 |



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 2021

Submitted by Alliance Water Resources, Inc. for the

October 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 |
|-----------------------|-------------|-------------|-----|---------------------------|----------|----------------------|-------------|
| Monthly/Quarterly Avg | 1.0 | 1.1 | N/A | 10.0 | | 0.04 | |
| Peak Day | 1.2 | 1.2 | 8.0 | < 20.0 | | 0.07 | |
| Percent Removal | 99.4 | 99.7 | 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 |
|-----------------------|-------------|-------------|-----|---------------------------|----------|----------------------|-------------|
| Monthly/Quarterly Avg | 30 | 30 | 6-9 | 126 | | 2.5 | 10 |
| Weekly Average | 45 | 45 | | 630 | | | |
| Daily Max | | | | N/A | | 12.1 | 15 |

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.416 MGD or 47% 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 58472 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 92 tanker loads of bio-solids during the month equivalent to a total of 331,200 gallons and 87,226 pounds dry weight solids.

375,119 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 225,000 gallons with a level of 2.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 62 loads of septage during the month totaling 159,500 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)
- Matt and Gary took the new sludge truck back down to Crump Truck & Trailer Works in Springfield on the 8th of October to have the rear fender braces moved and the rear axle travel shortened up, so the rear tires wouldn't rub on the fenders/braces anymore. They delivered it back on the 15th.
- One of our septic haulers dumped some trashy septic on us on the 17th of September which caused the bar screens sheer pins to sheer a couple times. We replaced them and got them both back online. Then on Sunday the 19th we found that we had lost power to both bar screens and while attempting to reset the breaker we could hear a short in the conduit, so we ran a temporary power line/source and got them back online.
- Catalyst Electric came out on the 24th of October and pulled new wire for the bar screens and found where the short was in the old wire/conduit.
- We noticed on the 29th of October that the breaker in bar screen #1 control panel had gone bad. We had to order a replacement which has a 2-week lead time.

SAFETY

- We conducted our monthly Safety Meeting on Confined Space Awareness & Confined Space Entry Supervisor – Supervisor Responsibilities on the 15th of September.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 7th of October.
- We received the results for our in-house and contract lab proficiency testing of the USEPA mandated DMR-QA 41 study and all results were acceptable. A final report was forwarded on the USEPA Region VII DMR-QA Coordinator on 8th of October.

MISCELLANEOUS AND RECOMMENDATIONS

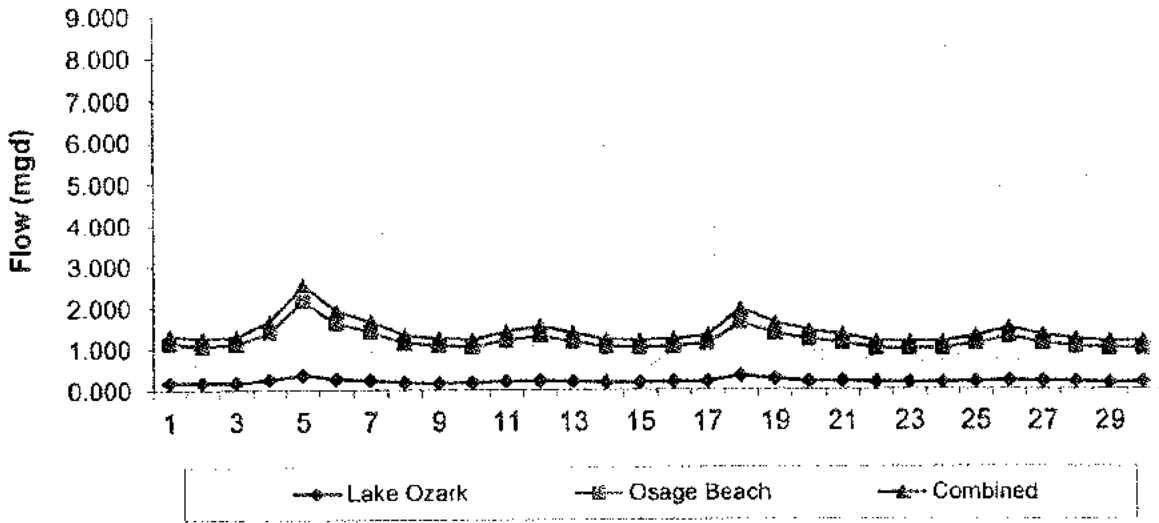
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF September 2021

| DATE | RAIN FALL IN. | FLOW | | | | | BOD 5 MG/L | | | TSS MG/L | | |
|--------|---------------|--------|--------|----------|------|------|------------|---------|-----------|----------|---------|-----------|
| | | 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 | 0 | 0.184 | 1.141 | 1.325 | 13.9 | 86.1 | | | | | | |
| 2-Sep | 0 | 0.190 | 1.086 | 1.276 | 14.9 | 85.1 | | | | | | |
| 3-Sep | 0 | 0.186 | 1.119 | 1.305 | 14.3 | 85.7 | 373 | 148 | 145 | 324 | 328 | 268 |
| 4-Sep | 1.2 | 0.261 | 1.410 | 1.671 | 15.6 | 84.4 | | | | | | |
| 5-Sep | 0.6 | 0.376 | 2.162 | 2.538 | 14.8 | 85.2 | | | | | | |
| 6-Sep | 0 | 0.290 | 1.638 | 1.928 | 15.0 | 85.0 | | | | | | |
| 7-Sep | 0 | 0.245 | 1.428 | 1.673 | 14.6 | 85.4 | | | | | | |
| 8-Sep | 0 | 0.192 | 1.149 | 1.341 | 14.3 | 85.7 | | | | | | |
| 9-Sep | 0 | 0.172 | 1.100 | 1.272 | 13.5 | 86.5 | | | | | | |
| 10-Sep | 0 | 0.183 | 1.045 | 1.228 | 14.9 | 85.1 | 183 | 130 | 220 | 106 | 224 | 584 |
| 11-Sep | 0 | 0.211 | 1.212 | 1.423 | 14.8 | 85.2 | | | | | | |
| 12-Sep | 0 | 0.224 | 1.323 | 1.547 | 14.5 | 85.5 | | | | | | |
| 13-Sep | 0 | 0.207 | 1.181 | 1.388 | 14.9 | 85.1 | | | | | | |
| 14-Sep | 0 | 0.183 | 1.056 | 1.239 | 14.8 | 85.2 | | | | | | |
| 15-Sep | 0 | 0.179 | 1.037 | 1.216 | 14.7 | 85.3 | | | | | | |
| 16-Sep | 0 | 0.190 | 1.056 | 1.246 | 15.2 | 84.8 | | | | | | |
| 17-Sep | 0 | 0.198 | 1.128 | 1.326 | 14.9 | 85.1 | 295 | 195 | 150 | 270 | 262 | 234 |
| 18-Sep | 0 | 0.336 | 1.626 | 1.962 | 17.1 | 82.9 | | | | | | |
| 19-Sep | 0 | 0.264 | 1.366 | 1.630 | 16.2 | 83.8 | | | | | | |
| 20-Sep | 0 | 0.203 | 1.227 | 1.430 | 14.2 | 85.8 | | | | | | |
| 21-Sep | 1.25 | 0.205 | 1.133 | 1.338 | 15.3 | 84.7 | | | | | | |
| 22-Sep | 0 | 0.181 | 0.994 | 1.175 | 15.4 | 84.6 | | | | | | |
| 23-Sep | 0 | 0.162 | 1.006 | 1.168 | 13.9 | 86.1 | | | | | | |
| 24-Sep | 0 | 0.174 | 0.989 | 1.163 | 15.0 | 85.0 | 203 | 130 | 145 | 192 | 210 | 246 |
| 25-Sep | 0 | 0.184 | 1.111 | 1.295 | 14.2 | 85.8 | | | | | | |
| 26-Sep | 0 | 0.209 | 1.286 | 1.495 | 14.0 | 86.0 | | | | | | |
| 27-Sep | 0 | 0.194 | 1.120 | 1.314 | 14.8 | 85.2 | | | | | | |
| 28-Sep | 0 | 0.190 | 1.048 | 1.238 | 15.3 | 84.7 | | | | | | |
| 29-Sep | 0 | 0.159 | 1.006 | 1.165 | 13.6 | 86.4 | | | | | | |
| 30-Sep | 0 | 0.174 | 1.002 | 1.176 | 14.8 | 85.2 | | | | | | |
| SUM | 3.1 | 6.306 | 36.185 | 42.491 | | | | | | | | |
| AVG | | 0.210 | 1.206 | 1.416 | 15 | 85 | 264 | 151 | 165 | 223 | 256 | 333 |

NOTE: BOLD PRINT INDICATES WEEKEND DAYS

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

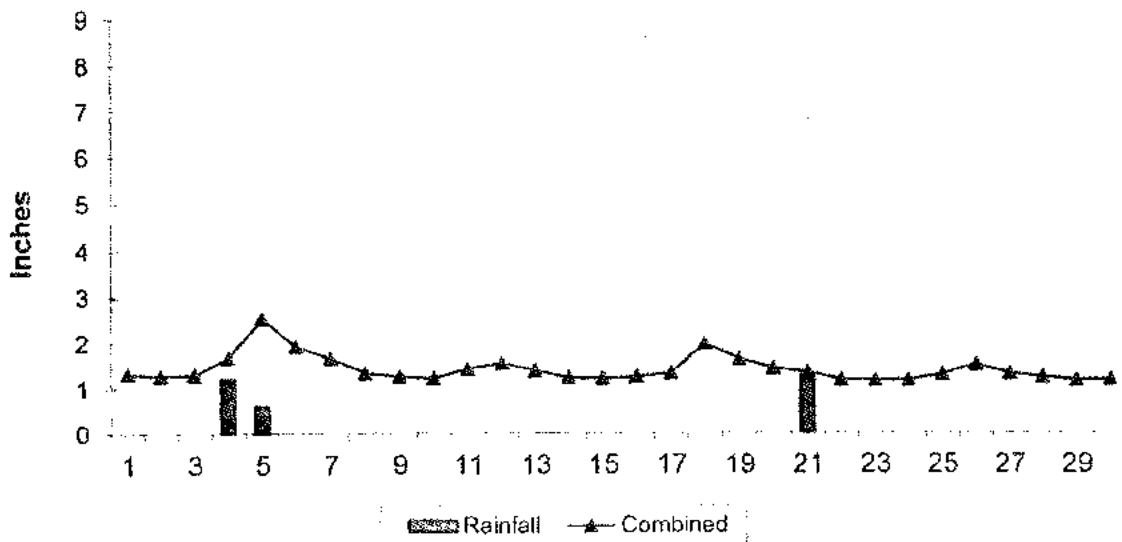


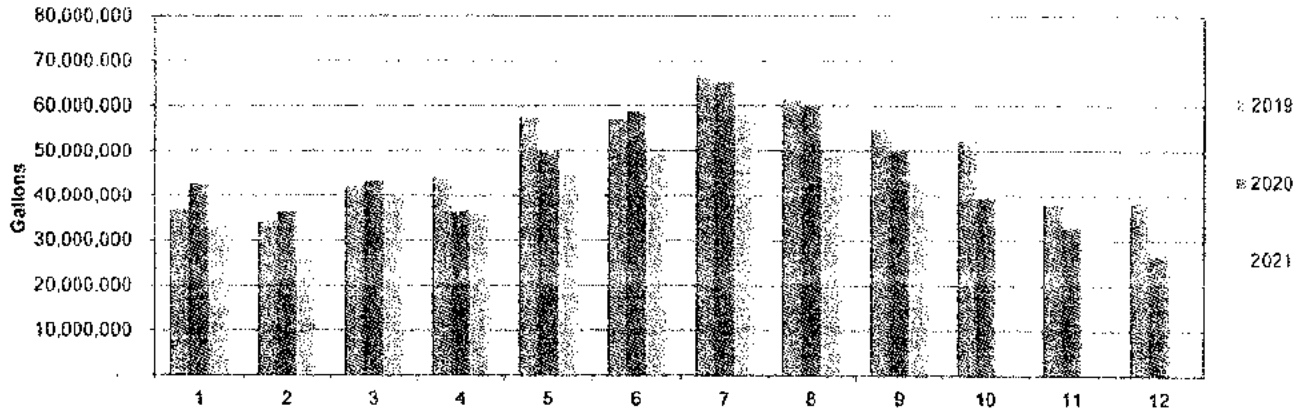
TABLE B
JOINT SEWER BOARD
Monthly Flows

| 2019 | <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% |

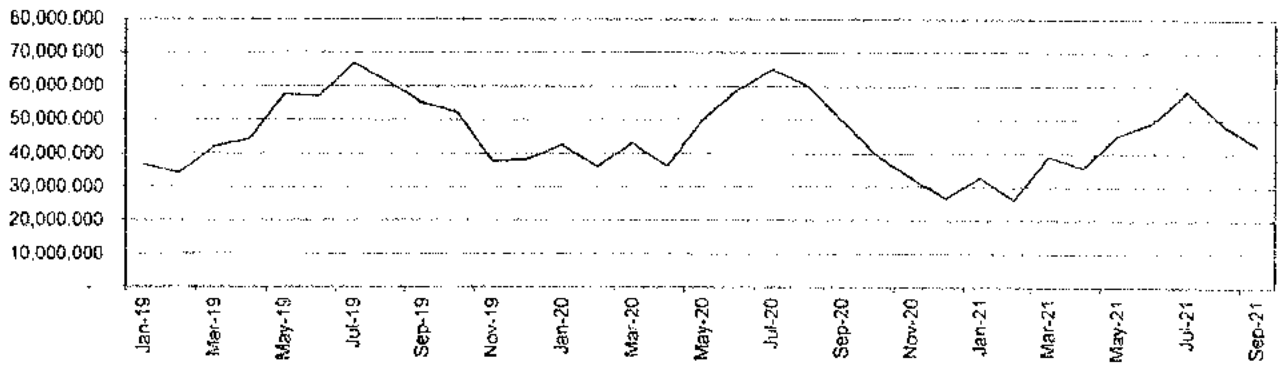
| 2020 | <u>RAINFALL</u> | <u>OSAGE BEACH</u> | <u>LAKE OZARK</u> | <u>TOTAL</u> | <u>%</u> |
|-----------|-----------------|--------------------|-------------------|--------------|----------|
| January | 7.7 | 36,806,000 86% | 5,780,000 14% | 42,586,000 | 100% |
| February | 3.6 | 31,279,000 86% | 4,986,000 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% |

| 2021 | <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 | 6.9 | 49,378,000 85% | 9,000,000 15% | 58,378,000 | 100% |
| August | 1.8 | 41,691,000 85% | 7,211,000 15% | 48,902,000 | 100% |
| September | 3.1 | 36,185,000 85% | 6,306,000 15% | 42,491,000 | 100% |
| October | | | | | |
| November | | | | | |
| December | | | | | |
| | 43.1 | 320,183,000 85% | 58,531,000 15% | 378,714,000 | 100% |

Monthly Influent Flow
Figure 3A

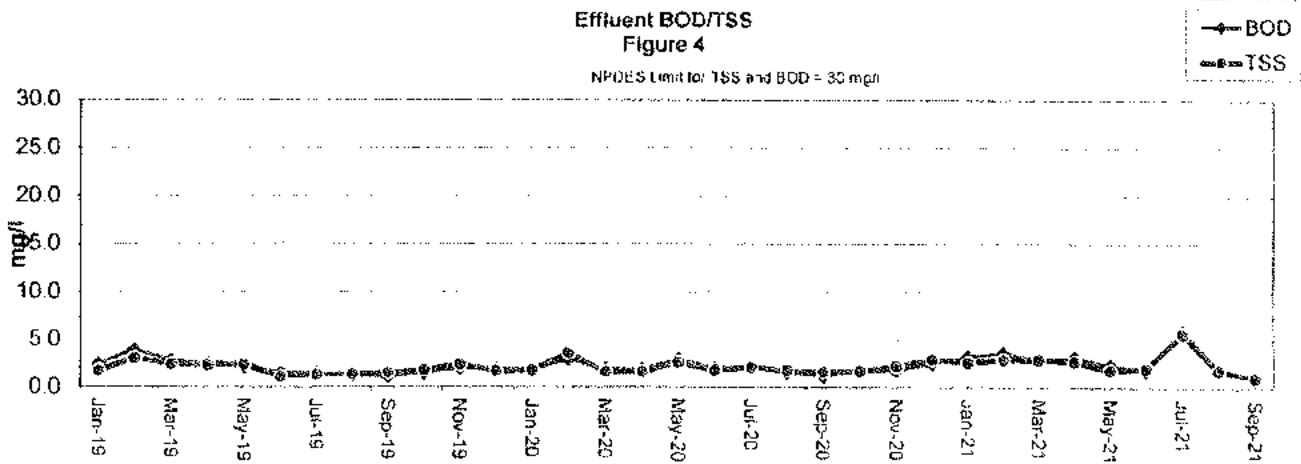


Monthly Influent Flow
Figure 3B



Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



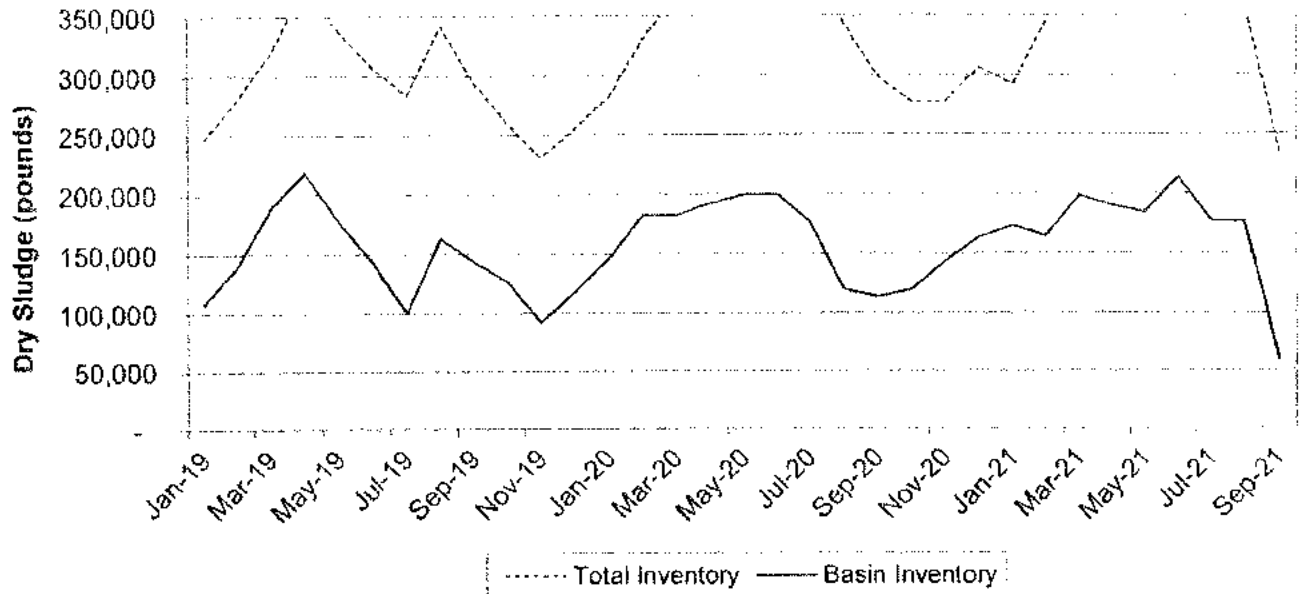
| Month | Hauled Sludge | | | | Annual Cumulative # Dry |
|--------|---------------|---------|---------|----------|-------------------------|
| | Loads | Gallons | # Dry | % Solids | |
| Jan-19 | 0 | - | 0 | 3.4% | - |
| Feb-19 | 0 | - | 0 | 3.4% | - |
| Mar-19 | 36 | 133,200 | 43,139 | 3.9% | 43,139 |
| Apr-19 | 38 | 144,300 | 53,940 | 4.5% | 97,079 |
| May-19 | 48 | 191,300 | 54,866 | 3.6% | 151,945 |
| Jun-19 | 44 | 182,600 | 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 | 62,457 | 3.5% | 309,907 |
| Oct-19 | 50 | 189,000 | 54,742 | 3.5% | 364,649 |
| Nov-19 | 29 | 107,300 | 31,629 | 3.5% | 396,278 |
| Dec-19 | 17 | 62,500 | 20,643 | 3.9% | 416,921 |
| 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 | 31,660 | 4.1% | 60,975 |
| Jul-20 | 69 | 255,300 | 77,265 | 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 | 55,296 | 4.0% | 318,454 |
| Nov-20 | 18 | 66,000 | 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 | 28,583 | 4.1% | 28,583 |
| Apr-21 | 35 | 144,300 | 45,269 | 3.8% | 74,152 |
| May-21 | 0 | - | 0 | 3.8% | 74,152 |
| Jun-21 | 0 | - | 0 | 3.8% | 74,152 |
| Jul-21 | 40 | 144,000 | 47,376 | 3.9% | 121,530 |
| Aug-21 | 153 | 553,800 | 166,363 | 3.5% | 287,893 |
| Sep-21 | 92 | 331,200 | 87,226 | 3.2% | 375,119 |

| Basin Depths | | | | | # Dry |
|--------------|---------|-------|---------|---------|---------|
| Tank #1 | Tank #2 | AB #1 | Basin | Gallons | |
| 5.0 | 3.5 | 0.0 | 382,500 | 108,462 | 108,462 |
| 6.0 | 5.0 | 0.0 | 495,000 | 140,352 | 140,352 |
| 8.0 | 7.0 | 0.0 | 585,000 | 189,462 | 189,462 |
| 5.5 | 7.5 | 0.0 | 585,000 | 218,676 | 218,676 |
| 8.0 | 5.0 | 0.0 | 585,000 | 177,038 | 177,038 |
| 7.0 | 3.0 | 0.0 | 450,000 | 143,381 | 143,381 |
| 3.0 | 4.0 | 0.0 | 315,000 | 100,397 | 100,397 |
| 5.5 | 6.0 | 0.0 | 517,500 | 164,006 | 164,006 |
| 7.0 | 4.0 | 0.0 | 495,000 | 144,134 | 144,134 |
| 7.5 | 2.0 | 0.0 | 427,500 | 128,498 | 128,498 |
| 3.5 | 3.5 | 0.0 | 315,000 | 92,653 | 92,653 |
| 6.0 | 2.0 | 0.0 | 360,000 | 118,148 | 118,148 |
| 6.0 | 4.0 | 0.0 | 450,000 | 146,367 | 146,367 |
| 6.5 | 6.0 | 0.0 | 582,500 | 182,959 | 182,959 |
| 5.5 | 7.0 | 0.0 | 582,500 | 182,959 | 182,959 |
| 6.0 | 7.5 | 0.0 | 607,500 | 192,526 | 192,526 |
| 6.0 | 8.0 | 0.0 | 630,000 | 199,660 | 199,660 |
| 6.0 | 7.0 | 0.0 | 585,000 | 200,228 | 200,228 |
| 6.0 | 7.0 | 0.0 | 585,000 | 177,054 | 177,054 |
| 5.0 | 4.0 | 0.0 | 405,000 | 119,953 | 119,953 |
| 4.0 | 4.5 | 0.0 | 382,500 | 113,246 | 113,246 |
| 5.0 | 3.0 | 0.0 | 380,000 | 119,563 | 119,563 |
| 5.0 | 6.0 | 0.0 | 495,000 | 143,111 | 143,111 |
| 4.5 | 5.5 | 0.0 | 450,000 | 164,112 | 164,112 |
| 7.0 | 3.5 | 0.0 | 472,500 | 173,389 | 173,389 |
| 5.0 | 5.0 | 0.0 | 450,000 | 165,132 | 165,132 |
| 6.0 | 7.0 | 0.0 | 585,000 | 198,548 | 198,548 |
| 6.0 | 7.5 | 0.0 | 607,500 | 190,582 | 190,582 |
| 8.0 | 7.0 | 0.0 | 585,000 | 185,398 | 185,398 |
| 7.0 | 8.0 | 0.0 | 675,000 | 213,921 | 213,921 |
| 5.0 | 7.0 | 0.0 | 540,000 | 177,688 | 177,688 |
| 7.0 | 6.0 | 0.0 | 585,000 | 176,693 | 176,693 |
| 2.0 | 3.0 | 3.0 | 225,000 | 59,297 | 59,297 |

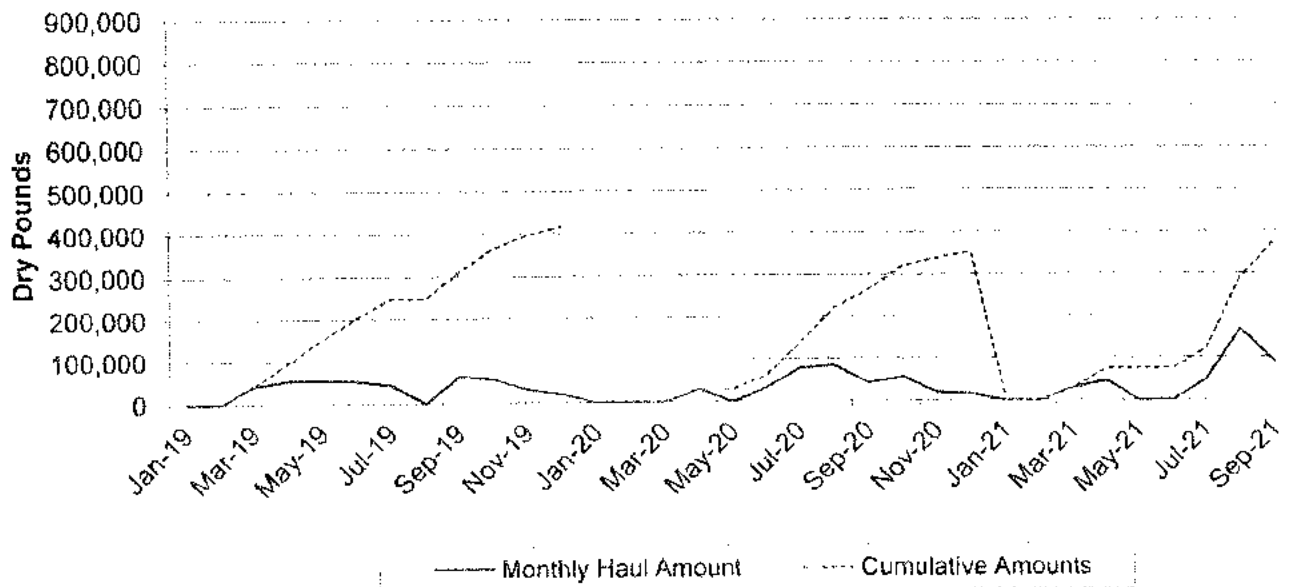
| Blacker Depths | | | MLSS Inventory | | Blacker and MLSS Inventory | | MLSS | | Total Dry | |
|----------------|----------|----------|----------------|-------|----------------------------|---------|----------|---------|-----------|------------------|
| Clarf #1 | Clarf #2 | Clarf #3 | MLSS | AB #1 | MLSS | AB #2 | Gallons | # Dry | % Solids | Sludge Inventory |
| 1.0 | 1.0 | 0.0 | 4,650 | 4,460 | 3,635,524 | 138,412 | 0.00457 | 248,874 | 19 | 46,500 |
| 1.0 | 1.0 | 0.0 | 4,570 | 4,740 | 3,635,524 | 141,141 | 0.00468 | 261,503 | 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 | 4,720 | 4,630 | 3,678,062 | 157,248 | 0.00513 | 375,923 | 23 | 61,500 |
| 2.0 | 4.0 | 1.5 | 5,150 | 5,160 | 3,723,357 | 180,077 | 0.00516 | 337,113 | 12 | 25,500 |
| 3.0 | 1.5 | 1.0 | 5,610 | 4,810 | 3,771,714 | 183,886 | 0.00521 | 307,267 | 16 | 47,500 |
| 2.0 | 3.0 | 0.5 | 6,060 | 5,830 | 3,710,524 | 183,973 | 0.00595 | 284,370 | 36 | 84,500 |
| 5.0 | 3.0 | 0.5 | 5,660 | 5,680 | 3,763,810 | 177,982 | 0.00567 | 341,088 | 29 | 72,500 |
| 2.0 | 1.0 | 1.0 | 4,460 | 5,310 | 3,696,714 | 150,607 | 0.00489 | 294,741 | 22 | 55,500 |
| 2.5 | 3.0 | 1.0 | 4,170 | 4,350 | 3,741,119 | 132,918 | 0.00426 | 299,414 | 40 | 97,000 |
| 3.5 | 5.0 | 0.0 | 4,980 | 3,850 | 3,750,977 | 138,115 | 0.00442 | 230,868 | 14 | 36,500 |
| 1.0 | 1.0 | 0.0 | 5,090 | 3,940 | 3,635,524 | 136,896 | 0.00452 | 255,044 | 14 | 32,500 |
| 1.0 | 1.5 | 0.0 | 4,260 | 4,690 | 3,644,405 | 136,015 | 0.00448 | 282,362 | 15 | 34,100 |
| 3.5 | 2.0 | 0.0 | 5,190 | 4,380 | 3,637,691 | 147,716 | 0.00479 | 330,676 | 23 | 57,000 |
| 2.0 | 5.0 | 1.0 | 5,760 | 5,940 | 3,737,752 | 183,825 | 0.00584 | 306,784 | 25 | 64,500 |
| 1.0 | 1.0 | 1.0 | 5,740 | 5,290 | 3,678,952 | 169,214 | 0.00562 | 361,742 | 26 | 107,500 |
| 6.0 | 7.0 | 0.5 | 7,050 | 6,110 | 3,785,534 | 181,322 | 0.00608 | 390,681 | 35 | 83,500 |
| 6.0 | 7.0 | 0.5 | 7,050 | 7,120 | 3,852,620 | 227,647 | 0.00709 | 427,875 | 5 | 18,000 |
| 7.0 | 7.0 | 1.0 | 6,890 | 7,380 | 3,892,096 | 231,603 | 0.00714 | 408,656 | 46 | 208,000 |
| 6.0 | 6.0 | 1.0 | 6,530 | 7,460 | 3,856,572 | 224,021 | 0.00697 | 343,974 | 67 | 158,000 |
| 1.0 | 1.0 | 0.5 | 6,000 | 6,260 | 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 | 168,016 | 0.00516 | 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 | 5,330 | 4,360 | 3,639,476 | 142,508 | 0.0047 | 306,620 | 23 | 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 | 3,830,906 | 179,556 | 0.00562 | 344,690 | 28 | 69,500 |
| 2.0 | 5.0 | 0.5 | 6,630 | 6,330 | 3,746,048 | 205,573 | 0.00568 | 404,122 | 32 | 70,500 |
| 12.0 | 5.0 | 1.0 | 6,690 | 5,350 | 3,945,382 | 201,375 | 0.00612 | 391,957 | 22 | 52,000 |
| 13.0 | 14.0 | 1.0 | 6,200 | 6,330 | 4,125,002 | 215,427 | 0.006527 | 400,825 | 48 | 128,500 |
| 6.0 | 7.5 | 2.0 | 7,260 | 9,050 | 3,926,643 | 234,900 | 0.00717 | 448,824 | 63 | 151,500 |
| 7.0 | 12.0 | 3.0 | 9,190 | 8,110 | 4,067,762 | 279,340 | 0.00823 | 467,007 | 117 | 289,000 |
| 1.0 | 1.0 | 0.5 | 6,160 | 5,840 | 3,657,238 | 183,908 | 0.0058 | 350,701 | 65 | 163,000 |
| 1.0 | 1.0 | 0.5 | 5,220 | 5,180 | 3,657,238 | 175,383 | 0.0058 | 234,640 | 62 | 159,500 |

Accepted Seepage
Logs Gallons

Sludge Inventory



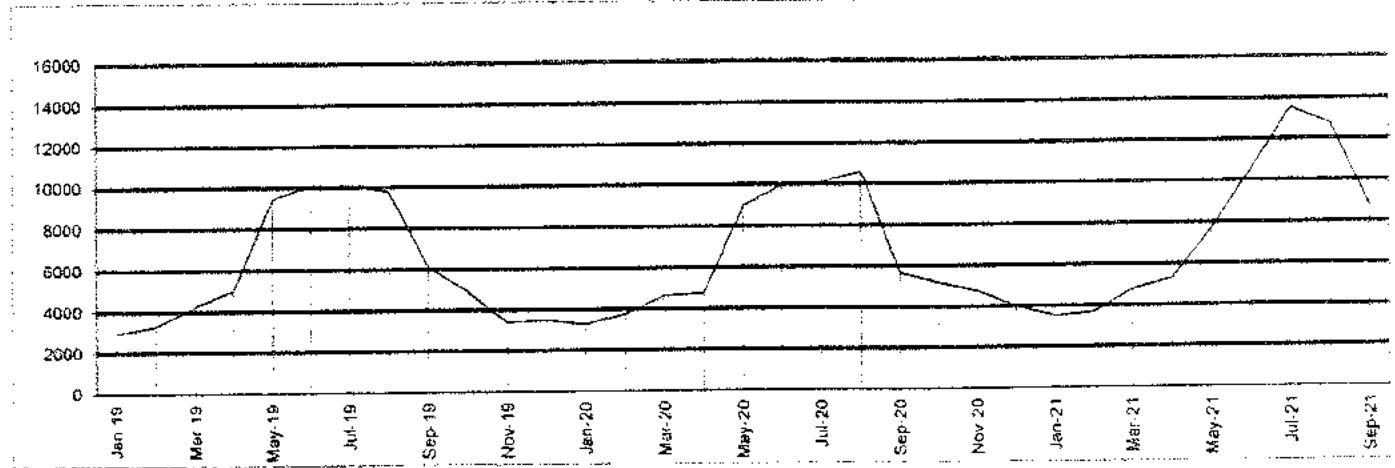
Hauled Sludge Summary



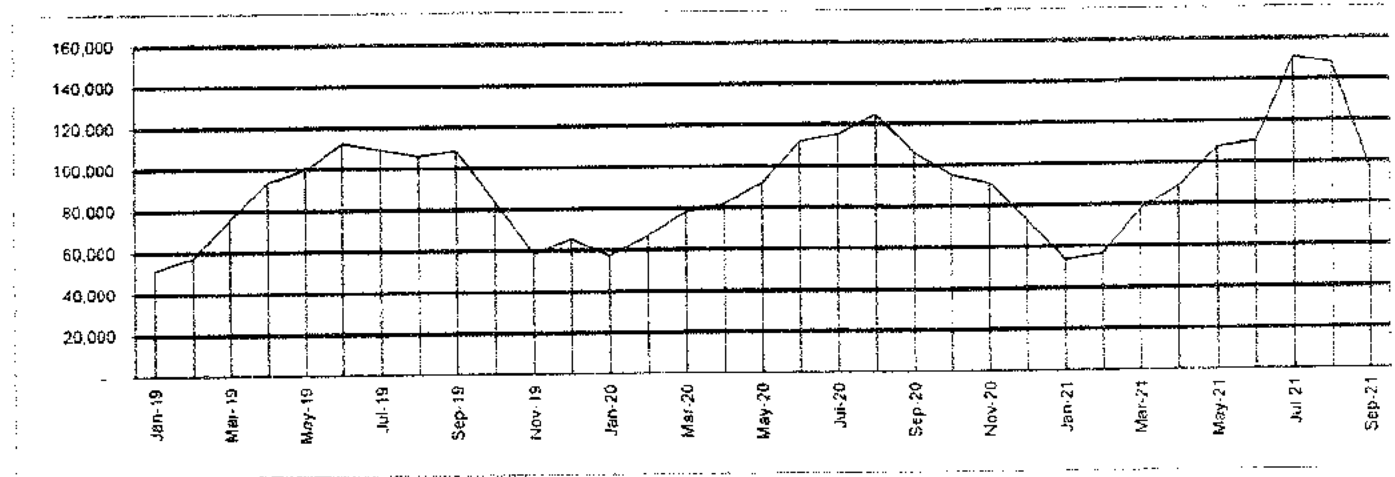
Electric Cost Kilowatts Used

| Month | 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 |
| Jul-21 | 13533 | 150,740 |
| Aug-21 | 12737 | 147,810 |
| Sep-21 | 8751 | 96,600 |

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-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 | Ammonia as N 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 | 7.0 | | | 42.0 | 24 | 1.656 | 7.6 | | | 0.05 | 7.9 | | 25.2 | | |
| 2 | 7.0 | | | | 24.6 | 1.648 | 7.6 | | | | 8.1 | | 24.8 | | |
| 3 | 7.1 | 145 | 268 | | 24.5 | 1.729 | 7.4 | 1.0 | 1.0 | | 8.1 | | 24.8 | 99.3 | 99.6 |
| 4 | 7.1 | | | | 24.3 | 2.140 | 7.5 | | | | 7.9 | | 24.5 | | |
| 5 | 7.3 | | | | 24.2 | 2.987 | 7.4 | | | | 8.1 | | 24.4 | | |
| 6 | 7.6 | | | | 23.7 | 2.297 | 7.5 | | | | 7.8 | | 24.2 | | |
| 7 | 7.3 | | | | 23.4 | 2.052 | 7.6 | | | | 8.1 | < 20 | 23.9 | | |
| 8 | 7.3 | | | 8.2 | 23.7 | 1.548 | 7.6 | | | 0.02 | 8.0 | | 24.0 | | |
| 9 | 7.5 | | | | 24.2 | 1.665 | 8.0 | | | | 8.1 | | 24.1 | | |
| 10 | 7.0 | 220 | 584 | | 23.9 | 1.524 | 7.5 | 1.2 | 1.2 | | 8.1 | | 23.9 | 99.5 | 99.8 |
| 11 | 7.4 | | | | 21.5 | 1.817 | 7.6 | | | | 8.2 | | 21.6 | | |
| 12 | 7.3 | | | | 21.5 | 1.901 | 7.7 | | | | 8.2 | | 21.4 | | |
| 13 | 7.3 | | | | 24.3 | 1.773 | 7.9 | | | | 8.1 | < 20 | 24.3 | | |
| 14 | 7.0 | | | | 24.3 | 1.466 | 7.6 | | | | 8.0 | | 24.3 | | |
| 15 | 7.0 | | | 32.3 | 23.4 | 1.554 | 7.5 | | | 0.05 | 8.1 | | 23.7 | | |
| 16 | 6.8 | | | | 23.2 | 1.560 | 7.4 | | | | 8.2 | | 23.2 | | |
| 17 | 6.8 | 150 | 234 | | 22.8 | 1.749 | 7.4 | 0.8 | 0.9 | | 8.1 | | 22.8 | 99.5 | 99.6 |
| 18 | 6.9 | | | | 22.6 | 1.769 | 7.3 | | | | 8.2 | | 22.6 | | |
| 19 | 6.9 | | | | 23.1 | 1.962 | 7.4 | | | | 8.1 | | 23.3 | | |
| 20 | 6.9 | | | | 24.5 | 1.752 | 7.5 | | | | 7.9 | < 20 | 24.3 | | |
| 21 | 6.8 | | | | 22.4 | 1.671 | 7.4 | | | | 8.2 | | 23.3 | | |
| 22 | 6.9 | | | 35.2 | 23.3 | 1.655 | 7.4 | | | 0.07 | 8.3 | | 22.5 | | |
| 23 | 7.0 | | | | 22.3 | 1.387 | 7.5 | | | | 8.5 | | 21.5 | | |
| 24 | 7.0 | 145 | 246 | | 22.5 | 1.578 | 7.5 | 1.1 | 1.2 | | 8.5 | | 21.3 | 99.2 | 99.5 |
| 25 | 7.1 | | | | 22.1 | 1.667 | 7.4 | | | | 8.4 | | 20.8 | | |
| 26 | 7.0 | | | | 21.8 | 1.877 | 7.4 | | | | 8.4 | | 20.4 | | |
| 27 | 7.0 | | | | 22.6 | 1.690 | 7.5 | | | | 8.5 | < 20 | 21.3 | | |
| 28 | 7.0 | | | | 22.3 | 1.669 | 7.5 | | | | 8.5 | | 21.4 | | |
| 29 | 7.1 | | | 35.9 | 22.6 | 1.444 | 7.4 | | | 0.02 | 8.3 | | 22.0 | | |
| 30 | 7.0 | | | | 23.0 | 1.585 | 7.4 | | | | 8.2 | | 22.6 | | |
| Total | | | | | | 52.772 | | | | | | | | | |
| Avg | | 165 | 333 | 30.7 | 23.2 | 1.759 | | 1.0 | 1.1 | 0.04 | 8.2 | 10.0 | 23.1 | 99.4 | 99.6 |
| Min | 6.8 | 145 | 234 | 8.2 | 21.5 | 1.387 | 7.3 | 0.8 | 0.9 | 0.02 | 7.8 | < 20 | 20.4 | 99.2 | 99.5 |
| Max | 7.6 | 220 | 584 | 42.0 | 24.6 | 2.987 | 8.0 | 1.2 | 1.2 | 0.07 | 8.5 | < 20 | 25.2 | 99.5 | 99.6 |

| MONTHLY EFF MONITORING | | | | QUARTERLY EFF MONITORING | | | | MONTHLY INF MONITORING | | |
|------------------------|--------------------|-------------|-------------------------|--------------------------|---------------------|------------------|------------------|------------------------|-------------|-------------------------|
| DATE | Phosphorus mg/L | TKN mg/L | Nitrite+Nitrate mg/L | Oil & Grease mg/L | TR. Cadmium mg/L | Selenium mg/L | Hardness mg/L | Phosphorus mg/L | TKN mg/L | Nitrite+Nitrate mg/L |
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | 2.0 | 3.2 | 25.7 | | | | | 4.3 | 43.9 | < 0.10 |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| Total | 2.0 | 3.2 | 25.7 | | | | | 4.3 | 43.9 | < 0.10 |
| Avg | 2.0 | 3.2 | 25.7 | | | | | 4.3 | 43.9 | < 0.10 |
| Min | 2.0 | 3.2 | 25.7 | | | | | 4.3 | 43.9 | < 0.10 |
| Max | 2.0 | 3.2 | 25.7 | | | | | 4.3 | 43.9 | < 0.10 |

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

| DATE | SLUDGE DISP. LBS. DRY WEIGHT | #1 Aeration Basin, O-Ditch, Etc. | | | | #2 Aeration Basin, O-Ditch, Etc. | | | | *Weather Conditions | | |
|------|------------------------------|----------------------------------|--------------|----------------|---------|----------------------------------|--------------|----------------|---------|---------------------|--------------|------|
| | | MIXED LIQUOR | | | | MIXED LIQUOR | | | | * Ambient Temp °F | *RAIN inches | Time |
| | | * DO mg/l | ** MLSS mg/l | *Settleability | | * DO mg/l | ** MLSS mg/l | *Settleability | | | | |
| | | | | *30 min ml | Temp °C | | | *30 min ml | Temp °C | | | |
| 1 | 4,353 | 1.4 | 5,840 | 800 | 24.6 | 1.6 | 5,600 | 750 | 24.4 | 72 | 0 | 7:30 |
| 2 | 7,836 | 1.3 | 5,760 | 800 | 24.6 | 1.9 | 5,870 | 750 | 24.7 | 64 | 0 | 7:30 |
| 3 | 1,741 | 1.7 | 6,130 | 820 | 24.3 | 1.8 | 5,890 | 800 | 24.4 | 70 | 0 | 7:30 |
| 4 | | 1.6 | 6,510 | 830 | 24.5 | 1.8 | 5,910 | 800 | 24.6 | 73 | 1.2 | 7:30 |
| 5 | | 1.6 | 6,070 | 750 | 24.1 | 1.6 | 5,730 | 750 | 24.2 | 65 | 0.6 | 7:30 |
| 6 | | 1.7 | 5,340 | 730 | 23.7 | 1.2 | 6,860 | 860 | 23.9 | 62 | 0 | 7:30 |
| 7 | 7,836 | 1.6 | 5,890 | 820 | 23.7 | 1.3 | 7,210 | 870 | 23.7 | 64 | 0 | 7:30 |
| 8 | 4,474 | 1.3 | 6,320 | 840 | 23.8 | 1.4 | 6,550 | 840 | 24.1 | 64 | 0 | 7:30 |
| 9 | | 1.9 | 6,720 | 830 | 23.9 | 2.7 | 5,880 | 760 | 23.9 | 58 | 0 | 7:30 |
| 10 | 5,369 | 2.0 | 6,510 | 830 | 23.6 | 2.1 | 6,230 | 800 | 23.6 | 62 | 0 | 7:30 |
| 11 | 5,740 | 2.9 | 6,440 | 790 | 22.3 | 2.8 | 6,870 | 850 | 22.5 | 65 | 0 | 7:30 |
| 12 | 3,826 | 2.4 | 6,730 | 840 | 22.3 | 2.4 | 6,780 | 850 | 22.5 | 67 | 0 | 7:30 |
| 13 | 5,400 | 1.4 | 7,370 | 850 | 24.6 | 1.8 | 5,650 | 730 | 24.2 | 62 | 0 | 7:30 |
| 14 | 5,400 | 1.6 | 6,770 | 850 | 24.3 | 2.6 | 5,860 | 760 | 24.3 | 72 | 0 | 7:30 |
| 15 | | 1.9 | 6,540 | 820 | 23.7 | 2.3 | 6,290 | 800 | 23.6 | 69 | 0 | 7:30 |
| 16 | 7,145 | 2.3 | 6,370 | 800 | 22.8 | 2.6 | 6,160 | 800 | 23.0 | 60 | 0 | 7:30 |
| 17 | | 2.2 | 5,830 | 880 | 22.8 | 3.6 | 4,870 | 700 | 22.7 | 64 | 0 | 7:30 |
| 18 | | 2.4 | 6,810 | 860 | 22.5 | 3.6 | 5,700 | 750 | 22.7 | 62 | 0 | 7:30 |
| 19 | | 2.4 | 6,660 | 830 | 22.8 | 2.6 | 6,680 | 830 | 23.1 | 65 | 0 | 7:30 |
| 20 | | 1.8 | 6,170 | 800 | 24.6 | 1.8 | 6,650 | 830 | 24.3 | 70 | 0 | 7:30 |
| 21 | | 2.3 | 6,090 | 830 | 23.2 | 2.5 | 6,190 | 830 | 23.1 | 64 | 1.25 | 7:30 |
| 22 | 5,104 | 3.4 | 5,690 | 780 | 21.6 | 4.0 | 4,910 | 660 | 21.8 | 53 | 0 | 7:30 |
| 23 | 4,654 | 3.1 | 6,760 | 830 | 21.1 | 3.7 | 6,060 | 750 | 21.1 | 50 | 0 | 7:30 |
| 24 | 3,843 | 2.6 | 6,640 | 830 | 21.0 | 3.4 | 6,320 | 800 | 21.2 | 52 | 0 | 7:30 |
| 25 | | 3.6 | 6,300 | 830 | 20.3 | 4.1 | 6,030 | 830 | 20.4 | 59 | 0 | 7:30 |
| 26 | | 3.2 | 5,850 | 830 | 20.2 | 3.2 | 6,190 | 830 | 20.4 | 53 | 0 | 7:30 |
| 27 | | 2.2 | 5,150 | 740 | 21.2 | 2.0 | 6,550 | 860 | 21.3 | 63 | 0 | 7:30 |
| 28 | 6,725 | 3.1 | 4,210 | 660 | 21.1 | 1.5 | 6,460 | 850 | 21.3 | 60 | 0 | 7:30 |
| 29 | 7,776 | 3.0 | 5,470 | 720 | 21.9 | 3.0 | 6,160 | 800 | 22.0 | 63 | 0 | 7:30 |
| 30 | | 1.4 | 5,320 | 700 | 22.6 | 2.1 | 6,180 | 760 | 22.5 | 67 | 0 | 7:30 |

COMMENTS:

| | | | |
|---|-------------------------------------|--------------------------|-------------------|
| TESTS PERFORMED BY (PRINT) John Hornback | SIGNATURE <i>John Hornback</i> | PHONE # (573)365-0455 | DATE 10/7/2021 |
| REPORT APPROVED BY (PRINT) Gary Hutchcraft | SIGNATURE <i>Gary Hutchcraft</i> | PHONE # (573)365-0455 | DATE 10/7/2021 |

*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 |
| M00103231 | 001A |
| Monitoring Period | |
| 9/1/21 | 9/30/21 |
| NOD: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|--------------------------------|----------------|----------------------------------|---------|--------------------------------|----------------------------------|--------|
| | ***** | ***** | ***** | | 2.987 | 1.759 | |
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 2.987 | 1.759 | Mgal/d |
| Mon. Location.: End of Pipe | ***** | ***** | ***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| Sample Type: Total Measured | | | | | | | |
| Frequency: Daily | | | | | | | |
| BOD, 5-day, 20 deg. C | ***** | 1.2 | 1.0 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | ***** | Weekly Avg.:45 | Monthly Avg.:30 | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Weekly | | | | | | | |
| Total Suspended Solids (TSS) | ***** | 1.2 | 1.1 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | ***** | Weekly Avg.:45 | Monthly Avg.:30 | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Weekly | | | | | | | |
| Escherichia coli (E. coli) | ***** | <20 | 10.0 | #/100ml | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | ***** | 7 Day Geo.:630 | 30 Day Geo. Mean:126 | | ***** | ***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Weekly | | | | | | | |
| Phosphorus, total (as P) | 2.0 | ***** | 2.0 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrogen, Kjeldahl, total (as N) | 3.2 | ***** | 3.2 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrite plus nitrate total (as N) | 25.7 | ***** | 25.7 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrogen, ammonia total (as | 0.07 | ***** | 0.04 | mg/L | ***** | ***** | ***** |

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

| | | | | | | | |
|--|--------------------|-------|---------------------------------|-----------------|-------|-------|-------|
| Mon. Location: End of Pipe Sample Type: 24 Hour Composite Frequency: Weekly | Daily Max.:12.1 | ***** | Monthly Avg.:1.8 | | ***** | ***** | |
| pH Mon. Location: End of Pipe Sample Type: Grab Frequency: Weekly | 7.3 Minimum:6.0 | ***** | 8.0 Maximum:9.0 | SI ¹ | ***** | ***** | ***** |
| BOD, 5-day, percent removal Mon. Location: End of Pipe Sample Type: Calculated Frequency: Monthly | ***** | ***** | 99.2 Monthly Avg. Min.:85 | % | ***** | ***** | ***** |
| Suspended Solids, percent removal Mon. Location: End of Pipe Sample Type: Calculated Frequency: Monthly | ***** | ***** | 99.5 Monthly Avg. Min.:85 | % | ***** | ***** | ***** |
| Comments: | | | | | | | |

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

| | |
|-------------------|----------------|
| Permit Number | Outfall Number |
| MO0103241 | INHM |
| Monitoring Period | |
| 9/1/21 | 9/30/21 |
| NOD: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|--|--------------------------------|-------|----------------------------------|------|------------------------|-------|-------|
| BOD, 5-day, 20 deg. C | ***** | ***** | 165 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | ***** | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Total Suspended Solids (TSS) | ***** | ***** | 333 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | ***** | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrogen, ammonia total (as N) | 42.0 | ***** | 30.7 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Phosphorus, total (as P) | 4.3 | ***** | 4.3 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrogen, Kjeldahl, total (as N) | 43.9 | ***** | 43.9 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |
| Nitrite plus nitrate total (as N) | <0.10 | ***** | <0.10 | mg/l | ***** | ***** | ***** |
| Mon. Location.: Influent | Daily Max.:Monitoring Required | ***** | Monthly Avg.:Monitoring Required | | ***** | ***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Monthly | | | | | | | |

Comments:

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

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

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

I, the undersigned, 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 October 7, 2021 | User Phone Number (573)365-0455 |
|-------------------------------|------------------------------------|------------------------------------|

Semi - Annual I & I Flow Report
Wastewater Treatment Summary for the City of Lake Ozark
(Million Gallons)

2021

| | April | May | June | July | August | September |
|-----------------|-------|-------|-------|-------|--------|-----------|
| L.O. Total MG | 6.306 | 5.792 | 7.479 | 9.000 | 7.211 | 6.306 |
| L.O. Peak MG | 0.376 | 0.400 | 0.353 | 0.444 | 0.296 | 0.376 |
| Avg. Daily MG | 0.210 | 0.193 | 0.241 | 0.290 | 0.233 | 0.210 |
| % Diff. | 79% | 107% | 46% | 53% | 27% | 79% |
| | | | | | | |
| Rainfall Inches | 3.1 | 5.2 | 5.2 | 6.9 | 1.8 | 3.1 |

Semi - Annual I & I Flow Report
Wastewater Treatment Summary for the City of Osage Beach
(Million Gallons)

2021

| | April | May | June | July | August | September |
|-----------------|--------|--------|--------|--------|--------|-----------|
| O.B. Total MG | 36.185 | 30.179 | 37.964 | 49.378 | 41.601 | 36.185 |
| O.B. Peak MG | 2.538 | 1.746 | 1.975 | 2.361 | 1.668 | 2.162 |
| Avg. Daily MG | 1.206 | 1.006 | 1.225 | 1.593 | 1.342 | 1.206 |
| % Diff. | 110% | 74% | 61% | 48% | 24% | 79% |
| Rainfall Inches | 3.1 | 5.2 | 5.2 | 6.9 | 1.8 | 3.1 |



Bids for Spare UV parts, Air Cylinders, Sleeves & Miscellaneous parts/brushes

| Bidder | Budget | Price each | Purchase Amount & Total |
|---------------------------------------|-------------|------------------------------|------------------------------|
| John Henry Foster | \$10,000.00 | Parker Origa Cylinder OSP | 4 - \$3,185.58 |
| | | Misc. Compressor parts | |
| | | | Subtotal - \$3,185.58 |
| Xylem Inc. (Wedeco) | " | Parker Origa Cylinder OSP | 4 - \$7,680.00 |
| | | Misc. parts/brushes | |
| | | Wedeco Bulbs - \$163.00 ea | 30 - \$4,890.00 |
| | | Quartz Sleeves - \$182.00 ea | 20 - \$3,640.00 |
| Vandevanter Eng. | " | Parker Origa Cylinder OSP | 4 - \$7,131.68 |
| | | Misc. parts/brushes | |
| | | Wedeco Bulbs - \$151.36 ea | 30 - \$4,540.80 |
| | | Quartz Sleeves - \$169.00 ea | 20 - \$3,380.00 |
| USA Bluebook | " | Wedeco Bulbs - \$139.45 ea | 30 - \$4,183.50 |
| | | Quartz Sleeves - \$160.15 ea | 20 - \$3,203.00 |
| UV Doctor | " | Parker Origa Cylinder OSP | No Bid |
| | | Misc. parts/brushes | |
| | | Wedeco Bulbs - \$115.00 ea | 30 - \$3,450.00 |
| | | Quartz Sleeves - \$135.00 ea | 20 - \$2,700.00 |
| Total from JHF & UV Doctor | | | Total \$9,335.58 |



Bids for the Rebuild of 3 - Fairbanks Morse RAS Pumps

| Bidder | Budget for 3 | Cost each | Equipment |
|------------------------------|--------------|-------------------|---|
| Letts, Van Kirk & Associates | \$9,000.00 | \$4,622.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| Alliance Pump & Mechanical | " | \$4,597.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| Hupp Pump/Electric Motors | " | \$3,719.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| Municipal Equipment Co. | " | \$3,718.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| Independent Electric | " | \$2,483.97 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| Vandevanter Engineering | " | \$2,383.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| JCI Industries | " | \$2,300.00 | Fairbanks Morse Model # 5040142 Serial # K3N1-056154 |
| JCI Total cost | | \$6,900.00 | |

All bids do not include any extra machine work or parts other than the basic rebuild kit and will be an extra cost.

2021 BUDGET AMENDMENT - OCTOBER 19, 2021

| Expenditures | FY2020 Actual | FY2021 Budget | FY2021 Projected Year-End | BUDGET AMEND. | NEW FY2021 Budget |
|---------------------------------------|------------------|------------------|---------------------------------|------------------|----------------------|
| <u>Operations and Maintenance</u> | | | | | |
| 4000 Transfer to Equip. Replace. Fund | 71,604 | 121,606 | 121,606 | | 121,606 |
| 4020 Equip & Bldg. Repair/Main. | 26,299 | 36,800 | 111,550 | 75,000 | 111,800 |
| 4140 Insurance | 19,866 | 19,200 | 21,493 | | 19,200 |
| 4150 Vehicle Repair/Main. | 12,480 | 8,000 | 11,000 | 3,500 | 11,500 |
| 4160 Haulers fees to contractor | - | - | - | | - |
| 4170 Contract Management | 305,580 | 314,752 | 308,670 | | 314,752 |
| 4175 Electric Service | 75,077 | 75,000 | 81,500 | 6,500 | 81,500 |
| 4176 Utilities Misc. | 2,486 | 3,500 | 3,500 | | 3,500 |
| 4190 Bank Charges | 33 | - | - | | - |
| 4200 Audit | 2,648 | 2,600 | 2,600 | | 2,600 |
| 4220 Professional Services | - | - | - | | - |
| 4240 Equipment - New Generator | - | 500 | 500 | | 500 |
| | 516,072 | 581,958 | 662,419 | 85,000 | 666,958 |

**LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Operating Budget**

Cash & Equivalent Balance January 1, 2022 - Estimated

Restricted - Fund Reserves

Restricted - Other

Unrestricted

305,301

TOTAL Cash & Equivalent Balance January 1, 2022

\$ 305,301

Revenue

Osage Beach

470,050

Lake Ozark

82,950

Misc.

-

Interest

2,500

Waste Haulers' Fee

56,000

TOTAL Revenues

\$ 611,500

Expenditures

Transfer to Replacement Fund

55,000

Equipment & Building Repair/main.

142,000

Insurance

22,000

Vehicle Maintenance

8,000

Contract Management

321,017

Electric

82,000

Utilities Misc.

3,750

Bank Charges

-

Audit

2,700

Professional Services

-

Equipment Purchase - New

500

TOTAL Expenditures

\$ 636,967

Cash & Equivalent Balance December 31, 2022 - Estimated

Restricted - Fund Reserves

Unrestricted

279,834

TOTAL Cash & Equivalent Balance December 31, 2022

\$ 279,834

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Operating Budget

| REVENUE | FY2018 Actual | FY2019 Actual | FY2020 Actual | FY2021 Budget | FY2021 Projected Year-End | FY2021 Budget |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------------------------|-------------------|
| Operating Revenue | | | | | | |
| 3020 Osage Beach - 85% | 480,785 | 475,092 | 475,836 | 473,000 | 467,500 | 470,050 |
| 3010 Lake Ozark - 15% | 69,215 | 74,908 | 74,164 | 77,000 | 82,500 | 82,950 |
| 3030 Misc | 1,485 | - | 4,500 | - | 20,000 | - |
| 3100 Interest | 1,709 | 4,287 | 4,019 | 2,000 | 3,000 | 2,500 |
| 3030 Waste Haulers' Fee | 25,780 | 26,260 | 39,320 | 35,000 | 55,000 | 56,000 |
| Total Franchise Fees | \$ 578,974 | \$ 580,547 | \$ 597,839 | \$ 588,000 | \$ 628,000 | \$ 611,500 |
| Total General Fund Revenues | \$ 578,974 | \$ 580,547 | \$ 597,839 | \$ 588,000 | \$ 628,000 | \$ 611,500 |

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Operating Budget

| Expenditures | FY2018 Actual | FY2019 Actual | FY2020 Actual | FY2021 Budget | FY2021 Projected Year-End | FY2021 Budget |
|---------------------------------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|
| Operations and Maintenance | | | | | | |
| 4000 Transfer to Equip. Replace. Fund | 41,604 | 41,604 | 71,604 | 121,606 | 121,606 | 55,000 |
| 4020 Equip & Bldg. Repair/Main. | 9,714 | 104,063 | 26,299 | 36,800 | 114,150 | 142,000 |
| 4140 Insurance | 18,475 | 18,761 | 19,865 | 19,200 | 21,493 | 22,000 |
| 4150 Vehicle Repair/Main. | 3,887 | 5,480 | 12,480 | 6,000 | 11,000 | 8,000 |
| 4160 Haulers fees to contractor | 8,000 | - | - | - | - | - |
| 4170 Contract Management | 319,011 | 299,592 | 305,560 | 314,752 | 308,670 | 321,010 |
| 4175 Electric Service | 79,533 | 73,277 | 75,077 | 75,000 | 81,500 | 82,000 |
| 4176 Utilities Misc. | - | 3,717 | 2,486 | 3,500 | 3,500 | 3,750 |
| 4190 Bank Charges | 24 | 176 | 33 | - | - | - |
| 4200 Audit | 2,300 | 2,400 | 2,648 | 2,600 | 2,600 | 2,700 |
| 4240 Equipment - New Generator | - | 145,247 | - | 500 | 500 | 500 |
| Total Operations and Maintenance | \$ 482,548 | \$ 694,317 | \$ 516,072 | \$ 581,958 | \$ 655,019 | \$ 636,967 |

4020 DETAIL: Equip & Bldg. Repair/Main.

| | | | |
|--------------------------------------|---------|--------|----|
| Auto Dialer Yrly Software Fee | 500 | Tier 1 | 42 |
| Regular Maintenance | 18,000 | Tier 1 | |
| UV Bulbs, Quartz Steeves, Misc. | 10,000 | Tier 1 | |
| Concrete Steps to outfall | 9,000 | Tier 1 | |
| Rock for road | 2,000 | Tier 1 | |
| Parking Lot seamseal & sealcoat | 2,500 | Tier 1 | |
| Take #2 Aeration Basin, grit removal | 100,000 | Tier 2 | |
| | - | | |
| | 142,000 | | |

**LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Equipment Replacement Budget**

| | |
|--|-------------------|
| Cash & Equivalent Balance January 1, 2022 - Estimated | |
| Restricted - Fund Reserves | |
| Restricted - Other | |
| Unrestricted | 457,529 |
| TOTAL Cash & Equivalent Balance January 1, 2022 | \$ 457,529 |
| | |
| Revenue | |
| Interest | 5,000 |
| Transfer From Other Funds | 55,000 |
| TOTAL Revenues | \$ 60,000 |
| | |
| Expenditures | |
| Replacement | 59,500 |
| TOTAL Expenditures | \$ 59,500 |
| | |
| Cash & Equivalent Balance December 31, 2022 - Estimated | |
| Restricted - Fund Reserves | 458,029 |
| Restricted - Other | |
| Unrestricted | - |
| TOTAL Cash & Equivalent Balance December 31, 2022 | \$ 458,029 |

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Equipment Replacement Budget

| REVENUE | FY2018 Actual | FY2019 Actual | FY2020 Actual | FY2021 Budget | FY2021 Projected Year-End | FY2021 Budget |
|------------------------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|
| <u>Replacement Revenue</u> | | | | | | |
| 3000 Transfer from Operating | 41,604 | 41,604 | 71,604 | 121,606 | 121,606 | 59,000 |
| 3100 Interest Earned | 5,348 | 9,002 | 8,986 | 6,000 | 6,000 | 5,000 |
| | | | | | | |
| Total Revenue | \$ 46,952 | \$ 50,606 | \$ 80,590 | \$ 127,606 | \$ 127,606 | \$ 60,000 |

LAKE OZARK - OSAGE BEACH JOINT SEWER BOARD
FY2022 Equipment Replacement Budget

| EXPENDITURES | FY2018 Actual | FY2019 Actual | FY2020 Actual | FY2021 Budget | FY2021 Projected Year-End | FY2021 Budget |
|---------------------------------|------------------|------------------|------------------|------------------|---------------------------------|------------------|
| <u>Replacement Expenditures</u> | | | | | | |
| 4000 Replacement Expenses | \$42,783 | \$41,261 | \$85,256 | \$221,000 | 202,500 | 59,500 |
| | <u>\$42,783</u> | <u>\$41,261</u> | <u>\$85,256</u> | <u>\$221,000</u> | <u>\$202,500</u> | <u>\$59,500</u> |

DETAIL: Equipment & Replacement

| | | |
|--|---------------|--------|
| Replace garage door in headworks Bldg | 3,500 | Tier 1 |
| Replace wooden doors w/fiberglass | 2,000 | Tier 1 |
| Replace lab refrigerator/freezer | 3,500 | Tier 1 |
| Replacement 6" valve for sludge load station | 500 | Tier 1 |
| Replace Light Fixtures in headworks & RAS | 5,000 | Tier 1 |
| Replace aerator gear box - new | 45,000 | Tier 1 |
| | <u>59,500</u> | |

